

A close-up photograph of various microelectronics components on a printed circuit board (PCB). The components include several MOSFETs in LFPAC56 packages, a GaN FET in an LFPAC55 package, and various resistors. The components are mounted on a dark PCB with visible solder joints. A large, stylized orange arrow graphic points from the top right towards the center of the image.

Selection Guide

2023

Discrete, MOSFET and GaN FET
components, analog & logic ICs

nexperia

EFFICIENCY WINS.



MORE EXPERTISE



Bipolar transistors



Diodes



ESD protection, TVS, filtering and signal conditioning



MOSFETs



Analog & logic ICs



Power GaN FETs

Every piece of electronics in the world can benefit from Nexperia efficiency. That's every design, from the simplest phone charger or light switch to the most complex hybrid automobile. Efficiency means we produce the world's most essential semiconductors, the finishing touches that empower electronic designs everywhere. That's all we do, **more or less.**



LESS COMPLEXITY



Introduction

Welcome to the 2023 edition of the Nexperia Selection Guide. Here we present all our bipolar transistors, diodes, MOSFET and GaN FET components, and Analog & Logic ICs in one single document to give you a complete overview. It includes as well the first SiC Schottky diode portfolio. We aim to make it even easier for you to find the best product for your design.

Our extensive portfolio offers a wide range of general purpose devices and those that meet the stringent standards set by the automotive industry. They are housed in some of the most advanced, industry-leading small packages that combine power and thermal efficiency with best-in-class quality levels.

Alongside quality and efficiency, Nexperia customers value reliability and a consistent supply they can trust. We produce consistently reliable semiconductor components at high volume (Over 100 billion annually) and we work at every step to safeguard the long-term availability of our manufacturing processes and products, to ensure secure supply for all our customers.

We have a long history and broad experience. That ensures we can support you with the dedicated in-house technical support you need - from simplifying selection via quick-reference material to simple-to-use design tools and application insights. All to help drive up efficiency in your designs.

All the functionality you need in one spot

Just like on our website, you will find the Selection Guide is split into our six key product areas. There is also a dedicated section on packages, highlighting the latest package innovations and packing options.

Bipolar transistors

- › Resistor-equipped, low V_{CEsat} and small-signal transistors
- › Standard SMD, leadless and clip-bond packages

Diodes

- › Broad choice of Zener, Schottky and switching diodes
- › Ultra-small, low-profile surface-mount package options
- › SiC Schottky diodes in surface-mount and through hole package options

ESD protection, filtering and signal conditioning

- › Extensive range of protection in ultra-small form factors
- › Optimized for signal integrity, robustness and system protection

MOSFETs

- › Low $R_{DS(on)}$ devices from < 20 V to > 200 V
- › Industry-leading, high-quality, highly robust, copper-clip SMD packaging, LFPAK

Power GaN FETs

- › Efficient and effective power FETs from 100 - 650 V
- › Cascode and e-mode configurations
- › Industry-standard TO-247, DFN, WLCSP and LGA packages
- › High-quality, highly robust copper-clip surface mount package technology, CCPAK

Analog & logic ICs

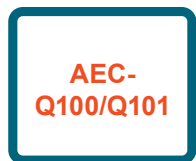
- › Comprehensive portfolio of Logic, Translator and Analog switch functions
- › Expanding portfolio of I²C GPIO, Battery Booster and Energy Harvesting products
- › Unrivalled package innovation for various pin counts with low power solutions

Packages

- › The next generation of packaging for volume production
- › Package cross-reference and packing options

As an innovative company we are continually adding to our product portfolio, so to discover all our latest product information you should visit our website – www.nexperia.com

Our commitment: quality and reliability



AEC-Q100/Q101 qualified

We qualify our products according to the automotive AEC-Q100/Q101 standard and even exceed its requirements, for instance when doing extended lifetime testing.



Go for quality

All our processes and manufacturing plants are subject to regular international and internal audits, including the following:

- › ISO9001
- › IATF 16949 for automotive sites
- › ISO14001
- › OHSAS18001



Design for excellence

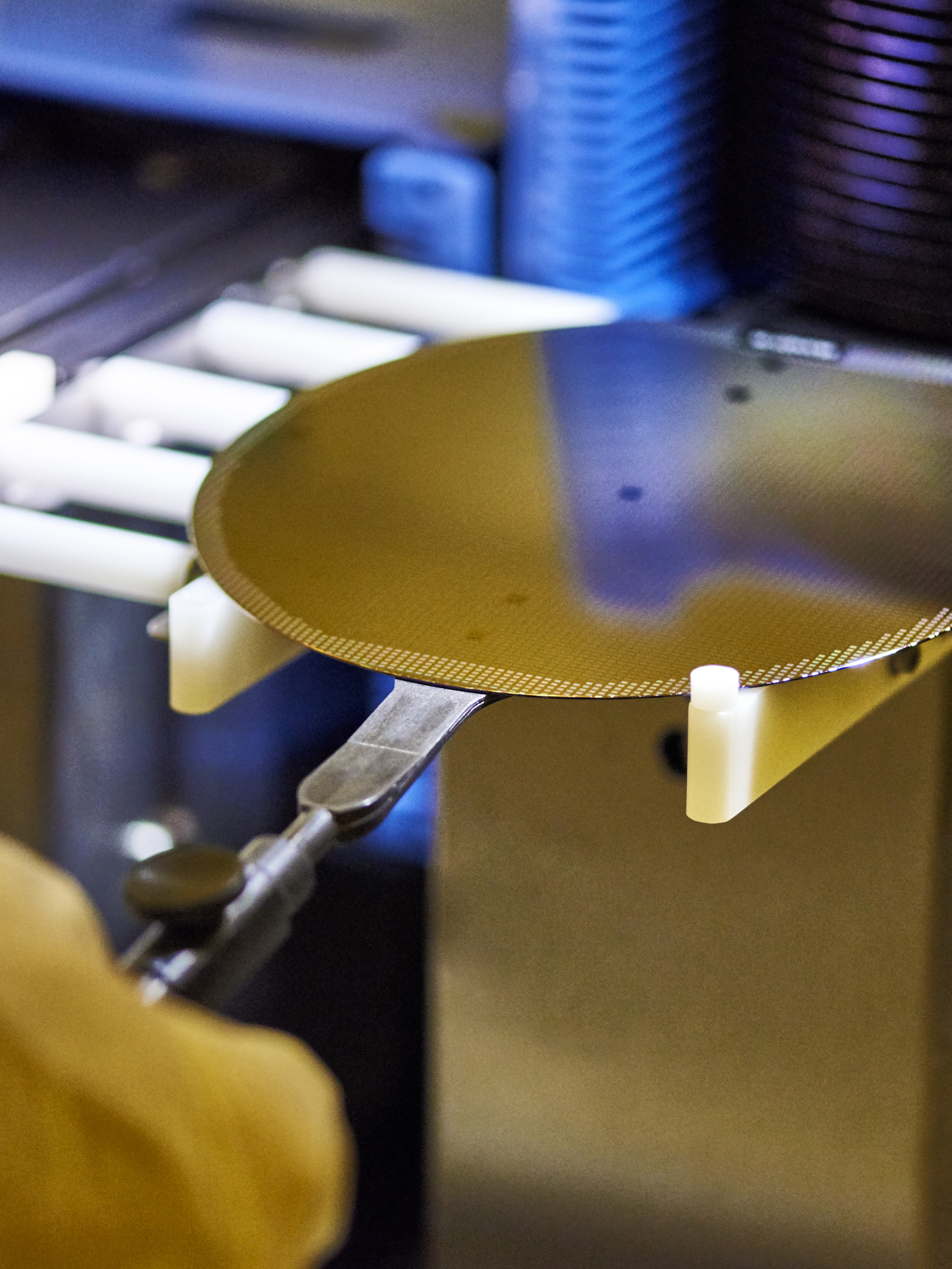
Nexperia's Design for Excellence (DfX) program ensures that each new development builds on past learning and that best practices are always employed. The result is continual product improvement.



Zero defects

Zero defects is our standard through the organisation. A rigorous 8-discipline approach and thorough 5-why analysis ensure strong improvements are constantly made to our products and processes.

Rigorous attention to detail and commitment to quality have yielded a very low product failure rate of a single-digit part per billion (ppb).



Selection Guide 2023

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New products

As an innovative company we invest significantly in R&D, and continually expand our portfolio with the latest generation of technology and products. Here is a snapshot of our most recent releases, but don't forget to visit the website for the most up-to-date information - www.nexperia.com

Bipolar transistors

Category	Products	Description	Page
General purpose bipolar transistors	PMBT2227AYS-Q	40 V, 600 mA, NPN/PNP double switching transistor in a very small SOT363 (TSSOP6)	23
	BCM847B5H-Q	45 V, 100 mA, 175°C, NPN/NPN matched double transistor in a very small SOT363 (TSSOP6)	24
	BC8465H-Q	65 V, 100 mA, 175°C, NPN/NPN general-purpose double transistor in a very small SOT363 (TSSOP6)	24
	BC847B5H-Q	45 V, 100 mA, 175°C, NPN/NPN general-purpose double transistor in a very small SOT363 (TSSOP6)	24
	BC846B5H-Q	65 V, 100 mA, 175°C, NPN/NPN general-purpose double transistor in a very small SOT363 (TSSOP6)	24
	BCM846B5H-Q	65 V, 100 mA, 175°C, NPN/NPN matched double transistor in a very small SOT363 (TSSOP6)	24
	BCM857B5H-Q	45 V, 100 mA, 175°C, PNP/PNP matched double transistor in a very small SOT363 (TSSOP6)	24
	BC8565H-Q	65 V, 100 mA, 175°C, PNP/PNP general-purpose double transistor in a very small SOT363 (TSSOP6)	24
	BC857B5H-Q	45 V, 100 mA, 175°C, PNP/PNP general-purpose double transistor in a very small SOT363 (TSSOP6)	24
	BC856B5H-Q	65 V, 100 mA, 175°C, PNP/PNP general-purpose double transistor in a very small SOT363 (TSSOP6)	24
	BCM856B5H-Q	65 V, 100 mA, 175°C, PNP/PNP matched double transistor in a very small SOT363 (TSSOP6)	24
	BC847BPNH-Q	45 V, 100 mA, 175°C, NPN/PNP general-purpose double transistor in a very small SOT363 (TSSOP6)	24
	BC846BPNH-Q	65 V, 100 mA, 175°C, NPN/PNP general-purpose double transistor in a very small SOT363 (TSSOP6)	24
	PUMD6H-Q	50 V, 100 mA, 175°C, NPN/PNP double RET; R1 = 4.7 kΩ, R2 = open in a very small SOT363 (TSSOP6)	24
	PUMH7H-Q	50 V, 100 mA, 175°C, NPN/NPN double RET; R1 = 4.7 kΩ, R2 = open in a very small SOT363 (TSSOP6)	24
	PUMB3H-Q	50 V, 100 mA, 175°C, PNP/PNP double RET; R1 = 4.7 kΩ, R2 = open in a very small SOT363 (TSSOP6)	24
	NCR320PAS	250 mA LED driver in DFN2020D-6	26
	NCR321PAS	250 mA LED driver in DFN2020D-6	26
	NCR420PAS	150 mA LED driver in DFN2020D-6	26
	NCR421PAS	150 mA LED driver in DFN2020D-6	26
PMP3906AYS-Q	40 V, 200 mA, PNP/PNP matched double transistor in a very small SOT363 (TSSOP6)	28	
Resistor equipped transistors (RETs)	PIMN31	50 V, 500 mA, NPN/NPN double RET; R1 = 1 kΩ, R2 = 10 kΩ in a small SOT457 (SC-74)	41
	PIMC31	50 V, 500 mA, NPN/PNP double RET; R1 = 1 kΩ, R2 = 10 kΩ in a small SOT457 (SC-74)	41
	PIMP31 (-Q)	50 V, 500 mA, PNP/PNP double RET; R1 = 1 kΩ, R2 = 10 kΩ in a small SOT457 (SC-74)	41
	PIMN32 (-Q)	50 V, 500 mA, NPN/NPN double RET; R1 = 2.2 kΩ, R2 = 10 kΩ in a small SOT457 (SC-74)	41
	PIMC32 (-Q)	50 V, 500 mA, NPN/PNP double RET; R1 = 2.2 kΩ, R2 = 10 kΩ in a small SOT457 (SC-74)	41
	PIMP32 (-Q)	50 V, 500 mA, PNP/PNP double RET; R1 = 2.2 kΩ, R2 = 10 kΩ in a small SOT457 (SC-74)	41

Diodes

Category	Products	Description	Page
Zener diodes	HPZR-Q series	High Power Dissipation 5.5W Zener in CFP3 with Tj 175°C	51
	HPZR series	High Power Dissipation 4.1W Zener in CFP3 with Tj 150°C	51
Switching diodes	BAS116LS (-Q)	Low-leakage 85V, 325mA Switching Diode	56
Recovery rectifiers	PNE20040EP (-Q)	200 V, 4 A Hyperfast Switching Recovery Rectifier in CFP5	57
	PNE20050EP (-Q)	200 V, 5 A Hyperfast Switching Recovery Rectifier in CFP5	57
	PNE20040EPE (-Q)	200 V, 4 A Hyperfast Recovery Rectifier in CFP15B	57
	PNE20080EPE (-Q)	200 V, 8 A Hyperfast Recovery Rectifier in CFP15B	57
	PNE200100EPE (-Q)	200 V, 10 A Hyperfast Recovery Rectifier in CFP15B	57
	PNU65010ER (-Q)	650 V, 1 A Ultrafast Recovery Rectifier in CFP3	57
	PNU65010EP (-Q)	650 V, 1 A Ultrafast Recovery Rectifier in CFP5	57
	PNU65020EP (-Q)	650 V, 2 A Ultrafast Recovery Rectifier in CFP5	57
	PNU65030EP (-Q)	650 V, 3 A Ultrafast Recovery Rectifier in CFP5	57
SiC Schottky diodes	PSC1065K	650 V, 10 A SiC Schottky diode in TO-220-2 R2P	58
Schottky diodes and rectifiers	BAT32ALS (-Q)	Low-leakage 30V, 200mA Schottky Diode	60
	BAT32LS (-Q)	General-purpose 30V, 200mA Schottky Diode	60
	BAT42LS (-Q)	General-purpose 40V, 200mA Schottky Diode	60
	BAT46LS (-Q)	Low-leakage 100V, 250mA Schottky Diode	60

ESD protection, TVS, filtering and signal conditioning

Category	Products	Description	Page
Automotive ESD protection and TVS	PESD11VN24L-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	70
	PESD11VN27L-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	70
	PESD21VN48T-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) 48V ESD protection for 24V boardnets	70
	PESD1ETH1GLS-Q	Automotive Open Alliance Ethernet 100 and 1000 BaseT1 ESD protection	71
	PESD1ETH1GXLS-Q	Automotive Open Alliance Ethernet 100 and 1000 BaseT1 ESD protection	71
	PESD2ETH1G-T	Automotive Open Alliance Ethernet 100 and 1000 BaseT1 ESD protection	71
	PESD2ETH1GXT-Q	Automotive Open Alliance Ethernet 100 and 1000 BaseT1 ESD protection	71
	PESD2ETH100-T	Automotive Open Alliance Ethernet 100BaseT1 ESD protection	71
	PESD4USB3UTBR-Q	Automotive high speed interfaces and infotainment ESD protection	72
	PESD4USB5UTBR-Q	Automotive high speed interfaces and infotainment ESD protection	72
	PESD4USB3BTBR-Q	Automotive high speed interfaces and infotainment ESD protection	72
	PESD4USB5BTBR-Q	Automotive high speed interfaces and infotainment ESD protection	72
	PESD4USB3U-TBS	Automotive high speed interfaces and infotainment ESD protection	72
	PESD4USB5U-TBS	Automotive high speed interfaces and infotainment ESD protection	72
	PESD4USB3B-TBS	Automotive high speed interfaces and infotainment ESD protection	72
	PESD4USB5B-TBS	Automotive high speed interfaces and infotainment ESD protection	72
	PESD4USB3U-TTS	Automotive high speed interfaces and infotainment ESD protection	72
	PESD4USB5U-TTS	Automotive high speed interfaces and infotainment ESD protection	72
	PESD4USB3B-TTS	Automotive high speed interfaces and infotainment ESD protection	72
	PESD4USB5B-TTS	Automotive high speed interfaces and infotainment ESD protection	72
	PESD5V0C1ULS-Q	Automotive high speed interfaces and infotainment ESD protection	72
	PESD5V0C1BLS-Q	Automotive high speed interfaces and infotainment ESD protection	72
	PESD5V5C1UL-Q	Automotive high speed interfaces and infotainment ESD protection	72
	PESD5V5C1BL-Q	Automotive high speed interfaces and infotainment ESD protection	72
	PESD5V0C2UM-Q	Automotive high speed interfaces and infotainment ESD protection	72
	PESD18VF1BLS-Q	Automotive high speed interfaces and infotainment ESD protection	73
	PESD24VF1BLS-Q	Automotive high speed interfaces and infotainment ESD protection	73
	PESD30VF1BLS-Q	Automotive high speed interfaces and infotainment ESD protection	73
	PESD32VF1BLS-Q	Automotive high speed interfaces and infotainment ESD protection	73
	ESD protection	PESD15VW1UCSF	15V unidirectional ESD protection for very fast data lines like USB2
PESD5V5C1UL		Extremely low clamping, low Vt1 unidirectional ESD protection diode for very fast data lines	74
PESD3V3X2UT		Low capacitance low clamping ESD protection in SOT23	74
PESD3V3F2UT		Low capacitance low clamping ESD protection in SOT23	74
PESD5V0X2UT		Low capacitance low clamping ESD protection in SOT23	74
PESD5V0F2UT		Low capacitance low clamping ESD protection in SOT23	74
PESD5V0H1BSN		Extremely low capacitance bidirectional ESD protection diode in 0402	74
PESD2V0Y1BXM		Very thin very low clamping and Vt1 ESD protection for fast data lines	74
PESD1V0Y1BBSF		USB4 retimer/redriver and other ultrafast data line ESD protection	74
PESD1V2Y1BSF		Extremely low clamping and low Vt1, extremely low capacitance ESD protection diode	74
PESD2V8Y1BSF		USB4 retimer/redriver and other ultrafast data line ESD protection	74
PESD4V0Y1BBSF		Extremely low clamping, low Vt1 ESD protection diode for very fast data lines like USB2/3	74

ESD protection, TVS, filtering and signal conditioning

Category	Products	Description	Page
ESD protection	PESD4V0Y1BCSF	ESD protection for USB4 retimer/redriver, HDMI2.1 TMDS/FRL and other ultrafast data lines	74
	PESD4V0Y1BH5F	ESD protection for very fast data lines like HDMI2.1 TMDS/FRL applications	74
	PESD5V0R1BCSF	USB4 / antenna ESD protection	74
	PESD5V0R1BDSF	USB4 / antenna ESD protection	74
	PESD9V0C1BSF	9V ESD protection for very fast data lines like USB3	75
	PESD9V0Z1BDSF	9V ESD protection for very fast data lines like USB3	75
	PESD9V0W1BDSF	9V ESD protection for very fast data lines like USB2/3	75
	PESD12VY1BSF	12V ESD protection for very fast data lines like USB3	75
	PESD12VW1BCSF	12V ESD protection for very fast data lines like USB2/3	75
	PESD15VY1BSF	15V antenna and ultrafast data line ESD protection	75
	PESD15VW1BCSF	15V bidirectional ESD protection for very fast data lines like USB2/3	75
	PESD15VW1ACSF	+15V/-3.3 V asymmetric ESD protection for very fast data lines like USB2/3	75
	PESD18VF1BBSF	18V low C ESD protection for NFC, WiFi antennae	75
	PESD24VY1BSF	24V antenna and ultrafast data line ESD protection	75
	PESD18VY1BBIF	18V antenna and ultrafast data line ESD protection	75
	PESD5V5C1BL	Very low clamping, Vt1, capacitance, low InsertionLoss ESD protection in SOD882	75
	PESD18VF1BBL	18V low C ESD protection for NFC, WiFi antennae and very fast data lines	75
	PESD24VF1BBL	24V low C ESD protection for NFC, WiFi antennae and very fast data lines	75
	PESD30VF1BBL	30V low C ESD protection for NFC, WiFi antennae and very fast data lines	75
	PESD4V0X2UM	High surge, low clamping low capacitance ESD protection array in SOT883	75
	PESD5V0C2UM	Low clamping low capacitance ESD protection array in SOT883	75
	PESD5V0C2BDF	Extremely low clamping low capacitance ESD protection array in DFN0603-3	76
	PESD4V0Z2BCDF	Extremely low clamping low capacitance ESD protection array in DFN0603-3	76
	PUSB3FS4	Very low clamping unidirectional ESD protection array in SOT1176 for fast data lines like USB3	76
	PUSB3BB4	Very low clamping bidirectional ESD protection array in SOT1176 for fast data lines like USB3	76
	PUSB3CB4	Very low clamping bidirectional ESD protection array in SOT1176 for fast data lines like USB3	76
	PHDMI2FS4	Very low clamping unidirectional ESD protection array in SOT1176 for fast data lines like HDMI2.1	76
	PHDMI2BB4	Very low clamping bidirectional ESD protection array in SOT1176 for fast data lines like HDMI2.1	76
	PHDMI2CB4	Very low clamping bidirectional ESD protection array in SOT1176 for fast data lines like HDMI2.1	76
	PESD6V3S1UL	Unidirectional ESD protection diode	77
	PESD8V0S1UL	Unidirectional ESD protection diode	77
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MOSFETs

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	BSS84AKQB	50 V, P-channel Trench MOSFET in an ultra small DFN1110D-3 (SOT8015)	98
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	PSMN8R0-40HL	N-channel 40 V, 9.4 mOhm, logic level MOSFET in LFPAK56D using TrenchMOS technology	103
	PSMN8R5-40HS	N-channel 40 V, 8.5 mOhm, standard level MOSFET in LFPAK56D using TrenchMOS technology	103
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	PSMN013-60HS	N-channel 60 V, 10 mOhm, standard level MOSFET in LFPAK56D using TrenchMOS technology	103
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	PSMN013-60HL	N-channel 60 V, 12.5 mOhm, logic level MOSFET in LFPAK56D using TrenchMOS technology	103
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	NX5008NBKM	50 V, N-channel Trench MOSFET in a leadless ultra small DFN1006-3 (SOT883)	113
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	GAN140-650FBE	650 V, 140 mOhm Gallium Nitride (GaN) FET in a DFN 5 mm x 6 mm package	123
	GAN190-650FBE	650 V, 190 mOhm Gallium Nitride (GaN) FET in a DFN 5 mm x 6 mm package	123
	GAN140-650EBE	650 V, 140 mOhm Gallium Nitride (GaN) FET in a DFN 8 mm x 8 mm package	123
	GAN190-650EBE	650 V, 190 mOhm Gallium Nitride (GaN) FET in a DFN 8 mm x 8 mm package	123
	GAN3R2-100CBE	100 V, 3.2 mOhm Gallium Nitride (GaN) FET in a 3.5 mm x 2.13 mm Wafer Level Chip-Scale Package (WLCSP)	123
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Bipolar Discretes Q-portfolio

Introducing a new semiconductor quality that is addressing the growing support levels enhanced by ACES and prepares Bipolar Discretes for future automotive designs.

The largest automotive innovations are still ahead of us

- › Autonomous Driving, connectivity, electrified- and shared mobility (ACES) will shape the future of automobility and redefine the manner of moving from place to place.
- › ACES amplify the need for proven reliability in increasingly challenging environments and for extended operating times [e.g. over-night operation of xEV on-board chargers].
- › Essential quality of all components is key for mission-critical functions and amplified by regulatory pressures and reduces prospective service cost or even the risk of personal injuries.

Nexperia introduces future-proof automotive portfolio for Bipolar Discretes | The Q-Portfolio

- › On top of all automotive standards (e.g. AEC-Q101) Nexperia always enhanced its preeminent quality level by close consultation of its industry leading customer base (e.g. via regular audits).
- › With our dedicated automotive portfolio of Bipolar Discretes (e.g. BAV99-Q) we gear up to address the growing quality and support levels enhanced by ACES.
- › Moreover, we offer an additional option of standard types if an automotive grade is not required.

Quality | Moving beyond AEC-Q101

Continuously adopting the latest quality standards exceeding AEC-Q101 by new mission profiles (VDE ITG MN5.7), extended firewalls and more.

Supply | Incorporate particular industry needs

Guaranteed longevity of >10 years, <2 years date code, supply prioritization, IATF Certification and use of VDA A-rated in-house front- and backend.



The Q-portfolio

Service | Unique support for unique customers

Additional support offer including PPAPs, extended PCN implementation time and more.

Performance | Tailored investments to suit automotive needs

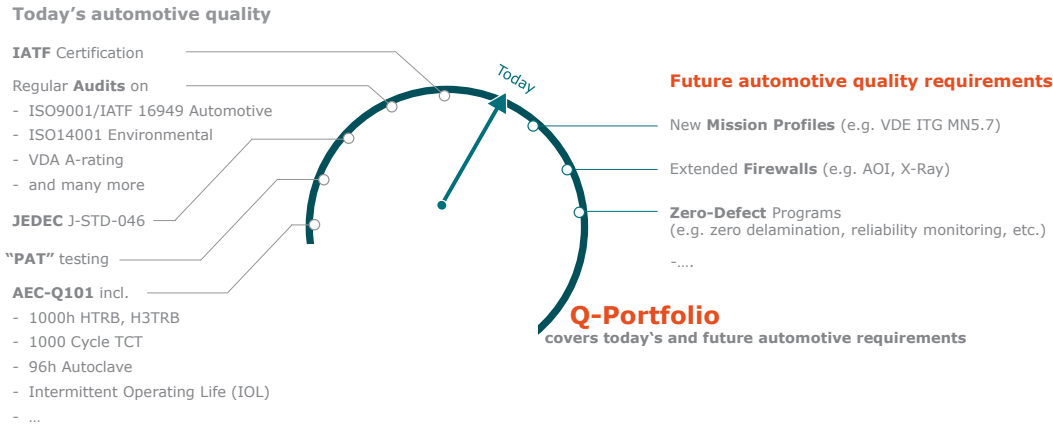
Drive CAPEX investments into dedicated automotive portfolio executed via BCamX Product Creation Process compliant to automotive APQP.

Our promise:

- › With our Q-Portfolio you automatically benefit from the adoption of future automotive standards.
- › We continue to guarantee all performance specifications stated in the data-sheets.
- › The transfer to Q-Portfolio has no impact on (1) confirmed shipments, (2) product supply chain or (3) negotiated contract prices.

The Q-portfolio – Q for Quality

Based on today's automotive requirements, the Q-portfolio will adopt future quality standards



Service options

With the introduction of the Q-portfolio, Bipolar Discretes offers 2 portfolio options, depending on each customer service level requirement.

Q-Portfolio		Standard Portfolio
• 2x JEDEC 180 days ¹⁾	PCN handling	• JEDEC 90 days
• Supported	PPAP	• Not supported
• Minimum of 10 years	Longevity	• Minimum of 5 years
• <2 years	Date Code	• <4 years
• Very high	Supply Priority²⁾	• High

Product overview

Q-portfolio types will be offered across all Bipolar Discretes product groups. Types can be recognized by the -Q ending of the part name.

Small Signal Diodes		Small Signal Transistors		Power Rectifiers		Power Transistors		BISS Transistors		ESD Protection	
ProductType	Package	ProductType	Package	ProductType	Package	ProductType	Package	ProductType	Package	ProductType	Package
BAS316	SOD323	BC17-40	SOT23	PMEG100V080ELPD	SOT128	BCX56-16	SOT89	PBSS5255PAPS	SOT111	PESD24VL1BA	SOD323
BAV99	SOT23	BC847C	SOT23	PMEG4005EJ	SOD323	BCP56-16T	SOT223	PBSS5240T	SOT23	PESD21VN24-T	SOT23
BAS21	SOT23	BC817-25	SOT23	PMEG10020ELR	SOD123	BCX53-16	SOT89	PBSS5350T	SOT23	PESD15VL1BA	SOT23
BAT54S	SOT23	BC846B	SOT23	PMEG4050EP	SOD128	BCP53-16	SOT223	PBSS4350T	SOT23	PESD21V1BA	SOT23
BAV99W	SOT23	BC807-40	SOT23	BAT760	SOD323	BSR41	SOT89	PBSS4140T	SOT23	PESD21V1BA	SOT23
BAV70	SOT23	BC847BPN	SOT363	PMEG4010BEA	SOD323	BCX56	SOT89	PBSS4350Z	SOT23		
BAS321	SOD323	PUMD3	SOT363	PMEG6010CEJ	SOD323	BCX56-10	SOT89	PBSS4240T	SOT23		
BAT54C	SOT23	PUMD9	SOT363	PMEG6030EP	SOD128	BCX52-16	SOT89				
BAS16VY	SOT363	BC807-25	SOT23	PMEG10010ELR	SOD123	PBSS5350X	SOT128				
BAV99W	SOT23	BC847B	SOT363	BCV60	SOD123						
BAV70W	SOT323	BC857B	SOT363								
BAT54SW	SOT323	BC847CW	SOT23								
BAV99S	SOT363	PUMH9	SOT23								
BAT54	SOT23										
BAS16	SOT23										
BAT54CW	SOT323										
BAV199	SOT23										
BAT54A	SOT23										
BAW56	SOT23										
BAT54AW	SOT23										

Future Bipolar Discretes Portfolio (exemplary)	
Standard Portfolio	Q-Portfolio
BAS316	BAS316-Q
BAV99	BAV99-Q
BAS21	BAS21-Q
...	...

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Bipolar transistors






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Small Signal Transistors single NPN


Package					Automotive-qualified				
					SOT23	SOT323 (SC-70)	DFN1412D-3 (SOT8009)	DFN1110D-3 (SOT8015)	DFN1006B-3 (SOT883B)
					Leaded SMD		DFN		
Size (mm)					2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95	1.4 x 1.2 x 0.47	1.1 x 1.0 x 0.47	1.0 x 0.6 x 0.37
P _{tot} (mW)					250	200	360	340	250
V _{CE0} (V)	I _C (mA)	h _{FE} min/typ	h _{FE} max	f _T min (MHz)					
25	100	450	1200	100		PMST5089			
30	100	110 - 200	450 - 800	100	BC848B	BC848W			
		350	900	100		PMST5088			
32	100	110	220	100	BCW31				
		200	450	100	BCW32				
		420	800	100	BCW33				
		180	310	250	BCW60B				
		250	460	250	BCW60C				
		380	630	250	BCW60D				
45	100	110	800	100	BC847 (-Q)	BC847W (-Q)			
		110	220	100	BC847A (-Q)	BC847AW (-Q)	BC847AQC (-Q)	BC847AQB (-Q)	BC847AMB
		200	450	100	BC847B (-Q)	BC847BW (-Q)	BC847BQC (-Q)	BC847BQB (-Q)	BC847BMB
		420	800	100	BC847C (-Q)	BC847CW (-Q)	BC847CQC (-Q)	BC847CQB (-Q)	BC847CMB
		120	220	100	BCX70G				
		180	310	100	BCX70H				
		250	460	100	BCX70J				
		380	630	100	BCX70K				
		110	220	100	BCW71				
		200	450	100	BCW72				
50	100	500	1250	100	PMBT6429	PMST6429			
		210	340	100 - 150	2PD601ART (-Q)				
		210	340	100 - 150	2PD601ARL	2PD601ARW (-Q)			
		290	460	100 - 150	2PD601ASL	2PD601ASW (-Q)			
60	100	250	650	100	PMBT6428	PMST6428			
		110	220	100	BCV71 (-Q)				
65	100	200	450	100	BCV72 (-Q)				
		110	450	100	BC846 (-Q)	BC846W (-Q)			BC846BMB
		110	220	100	BC846A (-Q)	BC846AW (-Q)	BC846AQC (-Q)	BC846AQB (-Q)	BC846BMB
50	150	200	450	100	BC846B (-Q)	BC846BW (-Q)	BC846BQC (-Q)	BC846BQB (-Q)	BC846BMB
		120	240	80					
		200	400	80					
	200	120	270	100		2PC4081Q (-Q)			2PC4617QMB
		180	390	100		2PC4081R (-Q)			2PC4617RMB
		270	560	100		2PC4081S (-Q)			
45	500	210	340	100	2PD601BRL				
		290	460	100	2PD601BSL				
		100	600	100	BC817 (-Q)	BC817W (-Q)			
		100	250	100	BC817-16 (-Q)	BC817-16W (-Q)	BC817-16QC (-Q)	BC817-16QB (-Q)	
		160	400	100	BC817-25 (-Q)	BC817-25W (-Q)	BC817-25QC (-Q)	BC817-25QB (-Q)	
50	500	250	600	100	BC817-40 (-Q)	BC817-40W (-Q)	BC817-40QC (-Q)	BC817-40QB (-Q)	
		100	600	100	BCX19				
		85	170	140 - 180	2PD602AQL				
80	500	120	240	140 - 180	2PD602ARL	2PD1820AR			
		170	340	140 - 180	2PD602ASL (-Q)	2PD1820AS			
60	500	50	-	100		PMSTA05			
80	500	100	-	50	PMBTA06 (-Q)	PMSTA06			
80	500	100	250	100	BC816-16	BC816-16W			
		160	400	100	BC816-25	BC816-25W			
45	800	100	250	100	BCW66F				
		160	400	100	BCW66G				
		250	600	100	BCW66H				

Small Signal Transistors single PNP





Package					Automotive-qualified				
					SOT23	SOT323 (SC-70)	DFN1412D-3 (SOT8009)	DFN1110D-3 (SOT8015)	DFN1006B-3 (SOT883B)
					Leaded SMD		DFN		
									
Size (mm)					2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95	1.4 x 1.2 x 0.47	1.1 x 1.0 x 0.47	1.0 x 0.6 x 0.37
P _{tot} (mW)					250	200	360	340	250
V _{CEO} (V)	I _C (mA)	h _{FE} min/typ	h _{FE} max	f _T min (MHz)					
30	100	125 - 220	500 - 800	100	BC858B (-Q)	BC858BW (-Q)			
32	100	120	260	100	BCW29				
		215	500	100	BCW30				
		180	310	100	BCW61B				
		250	460	100	BCW61C				
		380	630	100	BCW61D				
45	100	210	340	70 - 80	2PB709ART				
		210	340	70 - 80	2PB709ARL	2PB709ARW			
		290	460	70 - 80	2PB709ASL	2PB709ASW			
		180	310	100	BCX71H				
		250	460	100	BCX71J				
		380	630	100	BCX71K				
		120	260	100	BCW69				
		215	500	100	BCW70				
		125	800	100	BC857 (-Q)	BC857W (-Q)			
		125	250	100	BC857A (-Q)	BC857AW (-Q)	BC857AQC (-Q)	BC857AQB (-Q)	BC857AMB
		220	475	100	BC857B (-Q)	BC857BW (-Q)	BC857BQC (-Q)	BC857BQB (-Q)	BC857BMB
420	800	100	BC857C (-Q)	BC857CW (-Q)	BC857CQC (-Q)	BC857CQB (-Q)	BC857CMB		
60	100	120	260	150	BCW89				
65	100	125	475	100	BC856 (-Q)				
		125	250	100	BC856A (-Q)	BC856AW (-Q)	BC856AQC (-Q)	BC856AQB (-Q)	
		220	475	100	BC856B (-Q)	BC856BW	BC856BQC (-Q)	BC856BQB (-Q)	BC856BMB
100	100	30	-	100	BSS63 (-Q)				
50	150	120	270	100		2PA1576Q (-Q)			2PA1774QMB
		180	390	100		2PA1576R (-Q)			2PA1774RMB
		270	560	100		2PA1576S (-Q)			2PA1774SMB
	200	340	100	2PB709BRL					
	290	460	100	2PB709BSL					
25	500	100	600	80	BCX18				
45	500	100	600	80	BC807 (-Q)	BC807W (-Q)			
		100	250	80	BC807-16 (-Q)	BC807-16W (-Q)	BC807-16QC (-Q)	BC807-16QB (-Q)	
		160	400	80	BC807-25 (-Q)	BC807-25W (-Q)	BC807-25QC (-Q)	BC807-25QB (-Q)	
		250	600	80	BC807-40 (-Q)	BC807-40W (-Q)	BC807-40QC (-Q)	BC807-40QB (-Q)	
		100	600	80	BCX17				
50	500	40	240	100 - 40	2PB710ARL				
		40	240	100 - 40	2PB710ASL				
		100	-	100 - 40		2PB1219AQ			
		120	-	100 - 40		2PB1219AR			
		140	-	100 - 40		2PB1219AS			
60	500	100	-	50		PMSTA55			
80	500	100	-	50	PMBTA06 (-Q)	PMSTA06			
80	500	100	250	80	BC806-16	BC806-16W			
		160	400	80	BC806-25	BC806-25W			
45	800	100	250	80	BCW68F				
			400	80	BCW68G				
		250	600	80	BCW68H				

General purpose bipolar transistors

High performance transistors (superior power dissipation)

							Automotive-qualified
							SOT23
Package							
Size (mm)							2.9 x 1.3 x 1.0
P _{tot} (mW)							775
Polarity	V _{CEO} (V)	V _{ebo} (V)	I _C (mA)	h _{FE} min	h _{FE} max	f _T min (MHz)	
NPN	45	5	0.5	100	250	100	BC817K-16
				160	400	100	BC817K-25
				250	600	100	BC817K-40
PNP	45	5	0.5	100	250	80	BC807K-16
				160	400	80	BC807K-25
				250	600	80	BC807K-40

Small Signal Transistors double

						Automotive-qualified			
						SOT457 (SC-74)	SOT363 (SC-88)	DFN1412-6 (SOT1268)	DFN1010B-6 (SOT1216)
Package									
Size (mm)						2.9 x 1.5 x 1.0	2.0 x 1.25 x 0.95	1.4 x 1.2 x 0.5	1.0 x 1.0 x 0.37
P _{tot} (mW)						750	300	480	350
Polarity	V _{CEO} (V)	I _C (mA)	h _{FE} min	h _{FE} max	f _T min (MHz)				
NPN	40	100	120	450	100		PUMX1		
	45	100	200	450	100	BC847DS	BC847BS	BC847RA	BC847QAS
	65	100	110	-	100		BC846S		
			200	450	100	BC846DS	BC846BS		
	50	150	120	560	100		PUMX2		
45	500	160	400	80	BC817DS		BC817RA		
PNP	40	100	120	450	100	PIMT1	PUMT1		
	45	100	200	450	100		BC857BS (-Q)	BC857RA	BC857QAS
	65	100	110	-	100		BC856S		
			200	450	100		BC856BS		
45	500	160	400	80	BC807DS		BC807RA		
NPN / PNP	40	100	120	450	100		PUMZ1		
	45	100	200	450	100		BC847BPN (-Q)	BC847RAPN	BC847QAPN
	50	100	120	560	100	PIMZ2	PUMZ2		
	65	100	200	450	100		BC846BPN (-Q)		
	45	500	160	160	100 / 800	BC817DPN		BC817RAPN	

Small Signal Switching transistors single


Package							SOT223 (SC-73)	SOT89 (SC-62)	SOT23	SOT323 (SC-70)	DFN1006B-3 (SOT883B)	DFN1010D-3 (SOT1215)
Size (mm)							6.5 x 3.5 x 1.65	4.5 x 2.5 x 1.5	2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95	1.0 x 0.6 x 0.37	1.1 x 1.0 x 0.37
P _{tot} (mW)							1700	1300	250	200	250	440
Polarity	V _{CEO} (V)	I _C (mA)	h _{FE} min	h _{FE} max	f _T min (MHz)	t _{off} (ns)						
NPN	40	200	100	300	180	1200			PMBS3904-Q	PMSS3904		
	15	600	40	120	500	20			PMBT2369	PMST2369		
	40	200	100	300	300	250			MMBT3904			
	30	600	100	300	250	250			PMBT3904-Q	PMST3904	PMBT3904MB	
	40	600	100	300	250	250	PZT4401	PXT4401	PMBT4401	PMST4401		
	40	600	100	300	300	250			MMBT2222A			
	40	600	100	300	300	250	PZT2222A	PXT2222A	PMBT2222A	PMST2222A	PMBT2222AMB	PMBT2222AQA
PNP	40	800	100	300	300	250			BSR14			
	40	100	100	300	150	700			PMBS3906	PMSS3906		
	40	200	100	300	250	300			MMBT3906			
	40	200	100	300	250	300			PMBT3906	PMST3906	PMBT3906MB	
	40	600	100	300	200	350	PZT4403	PXT4403	PMBT4403	PMST4403		
	40	600	100	300	200	365			PMBT2907			
	60	600	100	300	200	300				PMST2907A		
					365			BSR16				
							PZT2907A	PXT2907A	PMBT2907A		PMBT2907AMB	PMBT2907AQA

Small Signal Switching transistors double

Types in **bold** represent new products

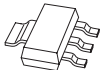




Package							SOT363 (SC-88)	SOT457 (SC-74)	DFN1412-6 (SOT1268)
Size (mm)							2.0 x 1.25 x 0.95	2.9 x 1.5 x 1.0	1.4 x 1.2 x 0.5
P _{tot} (mW)							300	750	480
Polarity	V _{CEO} (V)	I _C (mA)	h _{FE} min	h _{FE} max	f _T min (MHz)	t _{off} (ns)			
NPN	40	200	100	300	300	250	PMBT3904YS (-Q)	PMBT3904RA	
	40	600	100	300	250	250	PMBT4401YS		
	40	600	100	300	300	250	PMBT2222AYS		
PNP	40	200	100	300	250	300	PMBT3906YS		
	40	600	100	300	200	350	PMBT4403YS		
	60	600	100	300	200	365	PMBT2907AYS		
NPN / PNP	40	200	100	300	300 / 250	250 / 300	PMBT3946YPN		
	40 / 60	600	100	300	300 / 200	250 / 365		NMB2227A	
	40 / 60	600	100	300	300 / 200	250 / 365	PMBT2227AYS-Q		

General Purpose Power Transistors

Package							DPAK (SOT428C)	
								
Size (mm)							6.1 x 6.6	
P _{tot} (mW)							1750	
V _{CEO} (V)	I _C (A)	h _{FE} min	h _{FE} max	f _T min MHz	Polarity	Automotive-qualified		
45	4	40	375	3	NPN	Yes	MJD148(-Q)	
50	2	120	360	65	NPN	Yes	MJD2873(-Q)	
80	8	60	-	160	NPN	No	MJD44H11	
					PNP	No	MJD45H11	
					NPN	Yes	MJD44H11A	
					PNP	Yes	MJD45H11A	
100	3	25	50	3	NPN	No	MJD31C	
					PNP	No	MJD32C	
		NPN	Yes		MJD31CA			
		PNP	Yes		MJD32CA			
	6	30	-		-	NPN	Yes	MJD31CH-Q*
						PNP	Yes	MJD32CA
						NPN	Yes	MJD41C(-Q)
						PNP	Yes	MJD42C(-Q)

* high gain version



General purpose high voltage transistors

Package						Automotive-qualified				
						SOT223 (SC-73)	SOT89 (SC-62)	SOT457 (SC-74)	SOT23	SOT323 (SC-70)
										
Size (mm)						6.5 x 3.5 x 1.65	4.5 x 2.5 x 1.5	2.9 x 1.5 x 1.0	2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95
P _{tot} (mW)						1700	1300	750	250	200
Polarity	V _{CEO} (V)	I _C (mA)	h _{FE} min	h _{FE} max	f _T min (MHz)					
NPN	140	300	60	250	100				PMBT5550	PMST5550 (-Q)
	160	300	80	250	100				PMBT5551 (-Q) / BSR19A(-Q)	PMST5551 (-Q)
	250	100	50		60	BF722 (-Q)	BF622 (-Q)		BF822(-Q)	
			50		60	BF720	BF620 (-Q)		BF820(-Q)	BF820W
	300	100	40		50	PZTA42 (-Q)	PXTA42		PMBTA42 MMBTA42 (-Q)	PMSTA42
	350	100	40		70	BSP19	BST39			
400	300	50	200	20	PZTA44(-Q)			PMBTA44 (-Q)		
PNP	100	100	30		50				BSS63 (-Q)	
	250	100	50		60	BF723 (-Q)				
			50		60		BF623		BF823	
	300	100	50		60		BF621		BF821 (-Q)	
40				50	PZTA92 (-Q)	PXTA92		PMBTA92(-Q)	PMSTA92	
2 x NPN	300	100	40		50			PMBTA42DS		

For high-voltage transistors with increased performance please refer to our high-voltage low V_{CEsat} transistor portfolio on page 23.


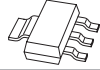

General purpose bipolar transistors

PNP LED driver


			Automotive-qualified	
			SOT457	SOT23
Package				
Size (mm)			2.9 x 1.5 x 1.0	2.9 x 1.3 x 1.0
P _{tot} (mW)			750	480
Maximum supply voltage V _s max (V)		Typical stabilized output current I _{out} typ (mA)	Maximum stabilized output current I _{out} max (mA)	
18		10	-	
		20	-	
40		10	65	NCR401U
		20	65	NCR402U
		50	65	NCR405U
				NCR401T
				NCR402T

NPN LED driver




Types in **bold** represent new products

				Automotive-qualified		
				SOT457 (SC-74)	SOT223 (SC-73)	DFN2020D-6 (SOT1118D)
Package						
Size (mm)				2.9 x 1.5 x 1.0	6.5 x 3.5 x 1.65	2 x 2 x 0.62
P _{tot} (mW)				750	1250	530
Maximum supply voltage V _s max (V)	Maximum Enable voltage VEN max (V)	Typical stabilized output current I _{out} typ (mA)	Maximum stabilized output current I _{out} max (mA)			
16	25	10	250	NCR320U		
	4.5			NCR321U		
40	40	10	150	NCR420U		
	4.5			NCR421U		
16	25	10	250		NCR320Z	
	4.5				NCR321Z	
40	40	10	150		NCR420Z	
	4.5				NCR421Z	
16	25	10	250			NCR320PAS
	4.5					NCR321PAS
40	40	10	150			NCR420PAS
	4.5					NCR421PAS


Constant current source

Automotive-qualified					
Package	SOT353 (SC-88A)				
					
Size (mm)	2.0 x 1.25 x 0.95				
P _{tot} (mW)	335				
Type	PSSI2021SAY				
Description	Maximum supply voltage	Maximum supply current	Typical stabilized output current	Minimum stabilized output current	Maximum stabilized output current
Parameter	V _s max (V)	I _s max (mA)	I _{out} typ (μA)	I _{out} min (mA)	I _{out} max (mA)
Value	75	2.2	15	0.015	50



Darlington transistors

					Automotive-qualified			
					SOT223 (SC-73)	SOT89 (SC-62)	SOT23	
Package								
Size (mm)					6.5 x 3.5 x 1.65	4.5 x 2.5 x 1.5	2.9 x 1.3 x 1.0	
P _{tot} (mW)					1700	1300	250	
Polarity	V _{CEO} (V)	I _C (mA)	h _{FE} min	f _r min (MHz)				
NPN	30	500	10000	125			PMBTA13	
			20000		PZTA14 (-Q)	PXTA14	PMBTA14	
	45	1000	500	2000	200	BSP50 (-Q)	BST50	BCV27 (-Q)
				10000	220		BCV49 (-Q)	BCV47 (-Q)
	80	1000	2000	2000	200	BSP51 (-Q)	BST51	
				2000	200	BSP52 (-Q)	BST52	
PNP	30	500	20000	125			PMBTA64	
			20000	220		BCV28	BCV26	
	45	1000	500	2000	200	BSP60	BST60 (-Q)	
				10000	220		BCV48 (-Q)	BCV46 (-Q)
	80	1000	2000	2000	200	BSP61	BST61	
				2000	200	BSP62 (-Q)	BST62	

Schmitt-triggers









							Automotive-qualified
							SOT143B
Package							
Size (mm)							2.9 x 1.3 x 1.0
P _{tot} (mW)							250
Polarity	V _{CEO} (V) TR1	V _{CEO} (V) TR2	I _C (mA)	h _{FE} min	h _{FE} max	V _{CEsat} typ (mV)	
NPN	30	6	100	110	800	250	BCV63 / B
PNP	30	6	100	220	475	250	BCV64B

Low noise transistors

							Automotive-qualified	
							SOT23	SOT323 (SC-70)
Package								
Size (mm)							2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95
P _{tot} (mW)							250	200
Polarity	V _{CEO} (V)	I _C (mA)	Noise figure max (dB)	h _{FE} min	h _{FE} max	f _r min (MHz)		
NPN	30	100	4	200	450	100	BC849B	BC849BW
				420	800	100	BC849C	BC849CW
	45	100	4	200	450	100	BC850B	BC850BW
				420	800	100	BC850C	BC850CW
PNP	30	100	4	220	475	100	BC859B	BC859BW
				420	800	100	BC859C	BC859CW
	45	100	4	220	475	100	BC860B	BC860BW
				420	800	100	BC860C	BC860CW

General purpose bipolar transistors











Matched pair transistors - part 1

							Automotive-qualified			
Package							SOT143B	SOT457 (SC-74)		LPAK56D (SOT1205)
Size (mm)							2.9 x 1.3 x 1.0	2.9 x 1.5 x 1.0		5 x 6 x 1.1
P _{tot} (mW)							250	750		1250
Polarity	V _{CEO} (V)	I _C (mA)	h _{FE} min	h _{FE} max	h _{FE1} /h _{FE2}	V _{BE1} - V _{BE2} (mV)				
NPN	30	100	110	800	0.7 ¹⁾	n.a.	BCV61/A/B/C			
	45	100	200	450	0.9 ¹⁾	2	BCM61B			
									BCM847DS	
	80	100	63	250	0.95	n.a.	BCM56DS			
100	3000	150	-	0.95	n.a.	PHPT610035NK				
Configuration										
PNP	30	100	100	800	0.7 ¹⁾	n.a.	BCV62/A/B/C			
	45	100	200	450	0.9 ¹⁾	2	BCM62B			
									BCM857DS	
	65	100	200	450	0.9	2			BCM856DS	
	80	100	63	250	0.95	n.a.	BCM53DS			
100	3000	150	-	0.9	n.a.	PHPT610035PK				
Configuration										

¹⁾ I_{C1} / I_{E2}


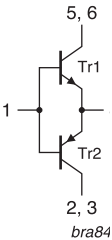

Matched pair transistors - part 2

Types in **bold** represent new products



							Automotive-qualified									
Package							SOT353 (SC-88A)	SOT363 (SC-88)		SOT1216 (DFN1010B-6)						
Size (mm)							2.0 x 1.25 x 0.95	2.0 x 1.25 x 0.95		1.1 x 1.0 x 0.37						
P _{tot} (mW)							300	300		350						
Polarity	V _{CEO} (V)	I _C (mA)	h _{FE} min	h _{FE} max	h _{FE1} /h _{FE2}	V _{BE1} - V _{BE2} (mV)										
NPN	45	100	200	450	0.9 ¹⁾	2	BCM847BS									
					0.95	2	PMP4501G	PMP4501Y	BCM847QAS	PMP4501QAS						
					0.98	2	PMP4201G	PMP4201Y								
	65	100	200	450	0.9	2	BCM846BS									
Configuration																
							40	200	100	300	0.98	2	PMP3906AYS-Q			
PNP	45	100	200	450	0.9 ¹⁾	2	BCM857BS									
					0.95	2	PMP5501G	PMP5501Y	BCM857QAS	PMP5501QAS						
					0.98	2	PMP5201G	PMP5201Y								
	65	100	200	450	0.9	2	BCM856BS									
Configuration																

¹⁾ I_{C1} / I_{E2}






MOSFET driver

			Automotive-qualified			
V_{CE0} (V)	I_C (A)	I_{cm} [A]	Type	Package	Remark	Configuration
30	0.1	0.2	BCV65	SOT143B 	General-purpose transistors	
40	0.6	1	PMD2001D	SOT457 	Switching transistors with reduced storage time	
	1	2	PMD3001D		Low V_{CEsat}	

Medium frequency transistors

						Automotive-qualified	
						SOT23	SOT323 (SC-70)
Package							
Size (mm)						2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95
P_{tot} (mW)						250	200
Polarity	V_{CE0} (V)	I_C (mA)	h_{FE} min	h_{FE} max	f_T typ (MHz)		
NPN	15	100	40	-	500	BF570	
	20	25		85	>275		BFS20
		30	65	225	260		BFS19
	40	25	67	220	380	BF840	
PNP	30	25	25	50	250	BF824	BF824W
	40		50	-	>325	BF550	

Low V_{CEsat} transistors single NPN up to 2000 mW

Package							Automotive-qualified				
							SOT223 (SC-73)	SOT89 (SC-62)	SOT457 (SC-74)	DFN2020D-3 (SOT1061D)	DFN2020-3 (SOT1061)
											
Size (mm)							6.5 x 3.5 x 1.65	4.5 x 2.5 x 1.5	2.9 x 1.5 x 1.0	2.0 x 2.0 x 0.62	2.0 x 2.0 x 0.62
P _{tot} (mW)							1700	1650	750	1300	1300
V _{CEO} (V)	I _C (A)	I _{CM} (A)	h _{FE} min/typ	@ I _C (A)	@ V _{CE} (V)	V _{CEsat} typ (mV); I _C = 0.5 A; I _B = 0.05 A					
10	3	5	325 / -	0.5	2	25 (max value)			PBSS4310PAS-Q		
12	5.3	10.6	300 / 530	0.5	2	18		PBSS301NX			
	5.8	11.6	300 / 530	0.5	2	18	PBSS301NZ				
20	3	5	220 / 390	0.5	2	40		PBSS4320X			
	4	15	300 / 450	0.5	2	30			PBSS301ND PBSS4420D (-Q)		
	5	10	300 / 450	0.5	2	35		PBSS4520X			
	5.3	10.6	300 / 570	0.5	2	20		PBSS302NX			
	5.8	10.2	300 / 570	0.5	2	20	PBSS302NZ (-Q)				
	6	7	280 / 440	0.5	2	20				PBSS4620PA	
	7	15	300 / 550	0.5	2	12		PBSS4021NX			
	8	20	300 / 550	0.5	2	9	PBSS4021NZ				
30	3	5	300 / 490	0.5	2	45		PBSS4330X			
	3	5	300 / 465	0.5	2	40			PBSS4330PAS (-Q) ²⁾	PBSS4330PA	
	3.5	6	300 / 500	0.5	2	70			PBSS4032ND ³⁾		
	4.7	10	300 / 500	0.5	2	57		PBSS4032NX ³⁾			
	5.1	10.2	300 / 480	0.5	2	20		PBSS303NX			
	5.4	10	300 / 500	0.5	2	57	PBSS4032NZ ³⁾				
	5.5	11	300 / 480	0.5	2	20	PBSS303NZ				
40	6	7	280 / 450	0.5	2	21				PBSS4630PA	
	2	3	300 / -	0.5	5	140		PBSS4240X			
	4	15	300 / 520	0.5	2	35			PBSS302ND		
		10	300 / 500	0.5	2	21		PBSS4540X			
5	10	300 / 500	0.5	2	25	PBSS4540Z					
50	2	5	300 / -	0.5	2	90 ²⁾		PBSS4250X			
	3	5	200 / 280	0.5	2	65			PBSS4350D (-Q)		
			300 / 460	0.5	2	50		PBSS4350X			
200 / 280			0.5	2	60 ¹⁾	PBSS4350Z (-Q)					
60	1	2	170 / -	0.5	10	200 ²⁾		PBSS4160X			
	3	6	200 / 360	0.5	5	45			PBSS4360PAS (-Q) ²⁾		
			200 / -	0.5	5	45	PBSS4360Z	PBSS4360X			
			345 / 570	0.5	2	40			PBSS303ND		
	4.7	9.4	300 / 520	0.5	2	25		PBSS304NX			
	5.2	10.4	300 / 520	0.5	2	25	PBSS304NZ				
	6	7	280 / 440	0.5	2	22				PBSS4560PA	
6.2	15	300 / 500	0.5	2	17		PBSS4041NX				
7	15	300 / 500	0.5	2	13	PBSS4041NZ (-Q)					
80	3	6	240 / 360	0.5	2	40			PBSS304ND		
	4	10	250 / 400	0.5	2	25		PBSS4480X			
	4.6	9.2	300 / 470	0.5	2	25		PBSS305NX			
	5.1	10.2	300 / 470	0.5	2	25	PBSS305NZ				
	5.6	7	270 / 425	0.5	2	25				PBSS4580PA	
100	1	3	150 / 290	0.25	10	75			PBSS8110D		
			150 / 290	0.25	10	73		PBSS8110X			
			150 / 290	0.25	10	73	PBSS8110Z				
	3	4	170 / 275	0.5	2	45			PBSS305ND		
	4.5	9	200 / 330	0.5	2	27		PBSS306NX			
	5.1	10.2	200 / 330	0.5	2	27	PBSS306NZ				
5.2	6	180 / 285	0.5	2	30				PBSS8510PA		

¹⁾ I_C / I_B = 20 ²⁾ V_{CEsat} (max) ³⁾ Optimized for high-speed switching

²⁾ 175°C capable

Low V_{CEsat} transistors single NPN up to 750 mW

Package							Automotive-qualified				
							SOT23	SOT323 (SC-70)	SOT363 (SC-88)	DFN1006B-3 (SOT883B)	DFN1010D-3 (SOT1215)
Size (mm)							2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95	2.0 x 1.25 x 0.95	1.0 x 0.6 x 0.37	1.1 x 1.0 x 0.37
P_{tot} (mW)							480	350	430	250	750
V_{CE0} (V)	I_C (A)	I_{CM} (A)	h_{FE} min/typ	@ I_C (A)	@ V_{CE} (V)	V_{CEsat} typ (mV); $I_C = 0.5$ A; $I_B = 0.05$ A					
15	0.5	1	200 / 325	0.01	2	-			PBSS2515MB		
20	1	3	350 / 470	0.1	2	110 ²⁾	PBSS4120T				
	2	5	220 / 330	0.1	2	45	PBSS4320T				
	4.3	8	300 / 550	0.5	2	21	PBSS4021NT				
30	1	1.5	230 / 380	0.5	2	90				PBSS4130QA	
		3	300 / 450	0.5	2	120 ²⁾	PBSS4130T				
	2	3	300 / 450	0.5	2	70	PBSS4230T				
			230 / 380	0.5	2	75				PBSS4230QA	
2.6	5	300 / 500	0.5	2	80	PBSS4032NT ³⁾					
40	0.5	1	200 / 550	0.01	2	200 ²⁾			PBSS2540MB		
			300 / 440	0.5	5	130		PBSS4140U			
			300 / 510	0.5	5	120	PMMT491A				
	2	3	300 / 420	0.5	5	130	PBSS4140T (-Q)				
350 / 470			0.1	2	70			PBSS4240Y			
300 / 450	0.5	2	70	PBSS4240T (-Q)							
50	2	5	300 / 495	0.5	2	60	PBSS4350T (-Q)				
60	1	1.5	150 / 240	0.5	2	90				PBSS4160QA (-Q)	
			200 / 420	0.5	5	120		PBSS4160U			
		200 / 350	0.5	5	110	PBSS4160T (-Q)					
	2	3	150 / 240	0.5	2	75				PBSS4260QA	
3.8	8	300 / 500	0.5	2	29	PBSS4041NT (-Q)					
100	1	3	150 / 400	0.25	10	80			PBSS8110Y		
			150 / 300	0.25	10	70	PBSS8110T (-Q)				

¹⁾ $I_C / I_B = 20$ ²⁾ V_{CEsat} (max) ³⁾ Optimized for high-speed switching

Low V_{CEsat} transistors single PNP up to 2000 mW

Package							Automotive-qualified				
							SOT223 (SC-73)	SOT89 (SC-62)	SOT457 (SC-74)	DFN2020D-3 (SOT1061D)	DFN2020-3 (SOT1061)
Size (mm)							6.5 x 3.5 x 1.65	4.5 x 2.5 x 1.5	2.9 x 1.5 x 1.0	2.0 x 2.0 x 0.62	2.0 x 2.0 x 0.62
P _{tot} (mW)							1700	1650	750	1300	1300
V _{CEO} (V)	I _C (A)	I _{CM} (A)	h _{FE} min/typ	@ I _C (A)	@ V _{CE} (V)	V _{CEsat} typ (mV); I _C = 0.5 A; I _B = 0.05 A					
12	5.3	10.6	250 / 400	0.5	2	20		PBSS301PX			
	5.7	11.4	250 / 400	0.5	2	20	PBSS301PZ				
20	3	5	200 / -	0.5	2	80 ²⁾			PBSS5320D		
			220 / 450	0.5	2	50		PBSS5320X			
	4	15	250 / 400	0.5	2	35			PBSS301PD PBSS5420D		
			300 / 430	0.5	2	45		PBSS5520X			
	5.1	10.2	250 / 370	0.5	2	25		PBSS302PX			
	5.5	11	250 / 370	0.5	2	25	PBSS302PZ				
	6	7	230 / 345	0.5	2	25				PBSS5620PA	
	6.2	15	250 / 400	0.5	2	18		PBSS4021PX			
6.6	20	250 / 400	0.5	2	16	PBSS4021PZ					
30	2.7	5	200 / 350	0.5	2	87			PBSS4032PD ³⁾		
			200 / 380	0.5	2	50		PBSS5330X			
	3	5	200 / 320	0.5	2	45				PBSS5330PAS ²⁾	PBSS5330PA
			200 / 350	0.5	2	70		PBSS4032PX ³⁾			
	4.2	10	200 / 350	0.5	2	70					
	4.4	10	200 / 350	0.5	2	70	PBSS4032PZ ³⁾				
	5.1	10.2	250 / 400	0.5	2	25		PBSS303PX			
	5.3	10.6	250 / 400	0.5	2	25	PBSS303PZ				
6	7	200 / 335	0.5	2	25				PBSS5630PA		
40	2	3	215 / -	0.5	5	170			PBSS5240X		
			200 / 310	0.5	2	46			PBSS302PD		
	4	10	250 / 370	0.5	2	33		PBSS5540X			
5	5	250 / 350	0.5	2	40 ¹⁾	PBSS5540Z (-Q)					
50	2	5	200 / -	0.5	2	90 ²⁾			PBSS5250X		
			200 / 300	0.5	2	70			PBSS5350D (-Q)		
	3	5	200 / 375	0.5	2	70		PBSS5350X			
60	3	6	200 / 300	0.5	2	70	PBSS5350Z (-Q)				
			130 / 220	0.5	5	55				PBSS5360PAS (-Q) ²⁾	
			130 / -	0.5	5	55	PBSS5360Z (-Q)	PBSS5360X			
	4.2	8.4	200 / 295	0.5	2	35			PBSS303PD (-Q)		
			180 / 265	0.5	2	55					
	4.2	8.4	200 / 295	0.5	2	35		PBSS304PX			
	4.5	9	200 / 295	0.5	2	35	PBSS304PZ				
	5	6	170 / 260	0.5	2	35				PBSS560PA	
5	15	200 / 300	0.5	2	30			PBSS4041PX			
5.7		200 / 300	0.5	2	22	PBSS4041PZ (-Q)					
80	3	5	155 / 225	0.5	2	55			PBSS304PD		
			180 / 265	0.5	2	40					PBSS580PA
	4	10	200 / 300	0.5	2	35			PBSS5480X		
		8	200 / 280	0.5	2	36			PBSS305PX		
4.5	9	200 / 280	0.5	2	36	PBSS305PZ					
100	1	3	150 / 350	0.5	5	100			PBSS9110D		
			150 / 350	0.5	5	90			PBSS9110X		
			150 / -	0.5	5	90	PBSS9110Z				
	2	3	175 / 275	0.5	2	65			PBSS305PD		
	3.7	7.4	200 / 300	0.5	2	45					PBSS9410PA
4.1	8.2	200 / 300	0.5	5	45			PBSS306PX			
							PBSS306PZ				

¹⁾ I_C / I_B = 20 ²⁾ V_{CEsat} (max) ³⁾ Optimized for high-speed switching
²⁾ 175°C capable

Low V_{CEsat} transistors single PNP up to 750 mW

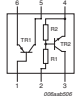
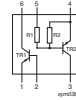
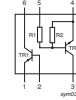
Package							Automotive-qualified				
							SOT23	SOT323 (SC-70)	SOT363 (SC-88)	DFN1006B-3 (SOT883B)	DFN1010D-3 (SOT1215)
Size (mm)							2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95	2.0 x 1.25 x 0.95	1.0 x 0.6 x 0.37	1.1 x 1.0 x 0.37
P _{tot} (mW)							480	350	430	250	750
V _{CEO} (V)	I _C (A)	I _{CM} (A)	h _{FE} min/typ	@ I _C (A)	@ V _{CE} (V)	V _{CEsat} typ (mV); I _C = 0.5 A; I _B = 0.05 A					
15	0.5	1	200/260	0.01	2	150			PBSS515MB		
20	1	2	300/450	0.1	2	125 ²⁾	PBSS5120T				
		3	225/-	0.5	2	80 ²⁾	PBSS5220T (-Q)				
	2	5	220/420	0.5	2	50	PBSS5320T (-Q)				
		3.5	8	250/400	0.5	2	35	PBSS4021PT (-Q)			
30	1	3	260/350	0.5	2	110	PBSS5130T				
	2	3	300/450	0.1	2	70	PBSS5230T (-Q)				
	2.4	5	200/320	0.5	2	95	PBSS4032PT ³⁾				
40	0.5	1	200/380	0.01	2	220			PBSS3540MB		
			300/520	0.1	5	130		PBSS5140U			
			300/800	0.1	5	130	PMMT591A				
	1	2	300/510	0.1	5	130	PBSS5140T (-Q)				
			2	3	300/-	0.1	2	110 ²⁾		PBSS5240Y	
					300/450	0.1	2	70	PBSS5240T (-Q)		
50	2	3	200/-	0.5	2	90 ²⁾	PBSS5250T				
			PBSS5250TH (-Q)								
	3	3	200/-	0.5	2	90 ²⁾	PBSS5350TH				
5		200/360	0.5	2	55	PBSS5350T (-Q)					
60	1	1.5	120/185	0.5	2	125				PBSS5160QA	
			150/250	0.5	5	135		PBSS5160U			
		150/250	0.5	5	120	PBSS5160T (-Q)					
	1.7	2.5	120/185	0.5	2	105				PBSS5260QA	
	2.7	8	200/300	0.5	2	49	PBSS4041PT (-Q)				
100	1	3	150/-	0.25	5	93			PBSS9110Y		
			150/350	0.5	5	95	PBSS9110T (-Q)				

¹⁾ IC / IB = 20 ²⁾ V_{CEsat} (max) ³⁾ Optimized for high-speed switching

Low V_{CEsat} transistors double

Package										Automotive-qualified			
										SOT457 (SC-74)	DFN2020-6 (SOT1118)	DFN2020D-6 (SOT1118D)	SOT363 (SC-88)
Size (mm)										2.9 x 1.5 x 1.0	2.0 x 2.0 x 0.62	2.0 x 2.0 x 0.62	2.0 x 1.25 x 0.95
P_{tot} (mW)										750	1300	1300	430
V_{CE0} (V)	I_C (A)	Polarity	h_{FE} min/typ	@ I_C (A)	@ V_{CE} (V)	V_{CEsat} typ (mV); $I_C = 0.5$ A; $I_B = 0.05$ A	V_{CEsat} max (mV)	@ I_C (A)	@ I_B (A)				
15	0.5	NPN/PNP	200	0.1	2	-	250	0.5	0.05	PBSS2515YPN (-Q)			
20	2	NPN/NPN	230	0.5	2	60	90	0.5	0.05	PBSS4220PANS			
	2	PNP/PNP	210	0.5	2	70	110	0.5	0.05	PBSS5220PAPS (-Q)			
30	1	NPN/NPN	210	0.5	2	75	100	0.5	0.05	PBSS4130PAN			
		PNP/PNP	170	0.5	2	85	140	0.5	0.05	PBSS5130PAP (-Q)			
		NPN/PNP	210/170	0.5	2	75/85	100/140	0.5	0.05	PBSS4130PANP			
	2	NPN/NPN	230	0.5	2	60	80	0.5	0.05	PBSS4230PAN			
		PNP/PNP	210	0.5	2	75	110	0.5	0.05	PBSS5230PAP			
		NPN/PNP	230/210	0.5	2	60/75	80/100	0.5	0.05	PBSS4230PANP			
40	1	NPN/PNP	300/250	0.5	5	130/150	500	1	0.1	PBSS4140DPN (-Q)			
	2	NPN/PNP	300/250	0.5	5	80/100	400/530	2	0.2	PBSS4240DPN			
55	2	PNP/PNP	140/200	0.5	2	80/120	300/450	2	0.2	PBSS5255PAPS (-Q)			
60	1	2 x NPN	200	0.5	5	115	250	1	0.1	PBSS4160DS (-Q)			
		2 x PNP	150	0.5	5	120	330	1	0.1	PBSS5160DS (-Q)			
		NPN/PNP	200/150	0.5	5	115/120	250/330	1	0.1	PBSS4160DPN			
	1	NPN/NPN	150	0.5	2	90	120	0.5	0.05	PBSS4160PAN	PBSS4160PANS		
		PNP/PNP	120	0.5	2	125	180	0.5	0.05	PBSS5160PAP	PBSS5160PAPS		
		NPN/PNP	150/120	0.5	2	90/125	120/180	0.5	0.05	PBSS4160PANP (-Q)	PBSS4160PANPS		
	2	NPN/NPN	210	0.5	2	70	90	0.5	0.05	PBSS4260PAN	PBSS4260PANS (-Q)		
		PNP/PNP	140	0.5	2	100	140	0.5	0.05	PBSS5260PAP	PBSS5260PAPS		
		NPN/PNP	210/140	0.5	2	70/100	90/140	0.5	0.05	PBSS4260PANP	PBSS4260PANPS		
120	1	NPN/NPN	240	0.1	2	90	120	0.5	0.05	PBSS4112PAN			
		PNP/PNP	190	0.1	2	150	220	0.5	0.05	PBSS5112PAP			
		NPN/PNP	240/190	0.1	2	90/150	120/220	0.5	0.05	PBSS4112PANP			

Low V_{CEsat} transistors load switches

Package				Automotive-qualified		
				SOT457 (SC-74)	SOT363 (SC-88)	
Size (mm)				2.9 x 1.5 x 1.0		2.0 x 1.25 x 0.95
P _{tot} (mW)				750 ¹⁾	600 ¹⁾	300 ²⁾
V _{CEO} (V)	I _C (A)	V _{CEsat} max (mV); I _C = 0.5 A; I _B = 0.05 A	R1, R2 (kΩ)			
15	0.5	250	2.2			PBLS1501Y
			4.7			PBLS1502Y
			10			PBLS1503Y
			22			PBLS1504Y (-Q)
20	1	150	2.2		PBLS2001D	
			4.7		PBLS2002D	
			10		PBLS2003D	
			22		PBLS2004D	
	1.8	70	2.2	PBLS2021D		
			4.7	PBLS2022D		
			10	PBLS2023D		
			22	PBLS2024D		
40	0.5	350	2.2			PBLS4001Y
			4.7			PBLS4002Y (-Q)
			10			PBLS4003Y (-Q)
			22			PBLS4004Y
			47			PBLS4005Y (-Q)
	1	170	2.2		PBLS4001D	
			4.7		PBLS4002D	
			10		PBLS4003D	
			22		PBLS4004D	
			47		PBLS4005D	
60	1	180	2.2		PBLS6001D	
			4.7		PBLS6002D (-Q)	
			10		PBLS6003D (-Q)	
			22		PBLS6004D	
	1.5	100	2.2	PBLS6021D		
			4.7	PBLS6022D		
			10	PBLS6023D		
			22	PBLS6024D (-Q)		

¹⁾ Device mounted on a ceramic PCB, Al₂O₃, standard footprint
²⁾ Device mounted on an FR4 PCB, single-sided copper, tin-plated, and standard footprint


Low V_{CEsat} high voltage transistors

Package					Automotive-qualified							
					SOT223 (SC-73)	SOT89 (SC-62)	DFN1010D-3 (SOT1215)	SOT23				
Size (mm)					6.5 x 3.5 x 1.65	4.5 x 2.5 x 1.5	1.1 x 1.0 x 0.37	2.9 x 1.3 x 1.0				
P_{tot} (mW)					1700	1300	750	250				
Polarity	V_{CEO} [max] (V)	I_C (A)	h_{FE} [min]	h_{FE} [max]								
NPN	150	0.5	100				PBHV8515QA					
		1	70	300				PBHV8115TLH				
			100					PBHV8115T (-Q)				
		2	100				PBHV8115X					
						PBHV8115Z						
	180	1	100					PBHV8118T				
		400	0.5	100			PBHV8540Z (-Q)	PBHV8540X	PBHV8540T (-Q)			
	1		100			PBHV8140Z (-Q)						
	500	0.15	50				PBHV8550X					
	600	0.1	70				PBHV2160Z		PMBTA45			
0.5		70				PBHV8560Z						
PNP	140	4	100			PBHV9414Z						
	150	0.5	100					PBHV9515QA				
		1	70	300					PBHV9115TLH			
			100					PBHV9115T (-Q)				
		2	100					PBHV9115X				
							PBHV9115Z					
	400	0.25	100									PBHV9040T (-Q)
												PBHV9040X
		0.5	100					PBHV9040Z				
			140	450				PBHV9540Z	PBHV9540X			
500	0.15	100									PBHV9050T (-Q)	
	0.25	100					PBHV9050Z					
600	0.1	70					PBHV3160Z					
	0.5	70					PBHV9560Z					


Low V_{CEsat} transistors PNP - N-channel MOSFET combination

Package												Automotive-qualified
												DFN2020-6 (SOT1118)
Size (mm)												2.0 x 2.0 x 0.62
P_{tot} (mW)												1300
V_{CEO} (V)	I_C (A)	h_{FE} min	h_{FE} max	@ I_C (mA)	@ V_{CE} (V)	R_{CEsat} typ (m Ω)	V_{DS} (V)	V_{GS} (V)	I_D (A)	R_{Dson} typ (m Ω)		
40	2	300	800	100	5	240	30	0.7	0.66	390	PBSM5240PF	
		100	-	100	5	240	30	0.7	0.66	390	PBSM5240PFH	

Low V_{CEsat} power transistors single (175 °C capable)

Package								LFPAK56 (SOT669)	
									
Size (mm)								5 x 6 x 1.1	
P_{tot} (mW)								1250	
V_{CEO} (V)	I_C (A)	I_{CM} [max] (A)	h_{FE} min/typ	@ I_C (A)	@ V_{CE} (V)	Polarity	Automotive-qualified		
40	6	14	200 / 400	0.5	2	NPN	Yes	PHPT60406NY	
		12		0.5	2	PNP	Yes	PHPT60406PY	
	10	20	200 / 400	0.5	2	NPN	Yes	PHPT60410NY	
				0.5	2	PNP	Yes	PHPT60410PY	
	15	30	200 / 400	0.5	2	NPN	Yes	PHPT60415NY	
				0.5	2	PNP	Yes	PHPT60415PY	
60	3	8	200 / 400	0.5	2	NPN	Yes	PHPT60603NY	
				0.5	2	PNP	Yes	PHPT60603PY	
	6	14	200 / 400	0.5	2	NPN	Yes	PHPT60606NY	
		12	150 / 250	0.5	2	PNP	Yes	PHPT60606PY	
	10	20	200 / 400	0.5	2	NPN	Yes	PHPT60610NY	
			150 / 250	0.5	2	PNP	Yes	PHPT60610PY	
	100	2	6	150 / 250	0.5	10	NPN	No	PHPT61002NYC
				150 / 220	0.5	10	PNP	No	PHPT61002PYC
120/220				0.5	10	NPN	No	PHPT61002NYCLH	
100/180				0.5	10	PNP	No	PHPT61002PYCLH	
3		8	150 / 250	0.5	10	NPN	Yes	PHPT61003NY	
			150 / 220	0.5	10	PNP	Yes	PHPT61003PY	
6		12	150 / 250	0.5	10	NPN	Yes	PHPT61006NY	
			150 / 220	0.5	10	PNP	Yes	PHPT61006PY	
10		20	150 / 250	0.5	10	NPN	Yes	PHPT61010NY	
			150 / 220	0.5	10	PNP	Yes	PHPT61010PY	

Low V_{CEsat} power transistors double (175 °C capable)

Automotive-qualified												
Package												LFPAK56D (SOT1205)
												
Size (mm)												5 x 6 x 1.1
P_{tot} (mW)												1250
V_{CEO} (V)	I_C (A)	I_{CM} (A)	h_{FE} typ	@ I_C (A)	@ V_{CE} (V)	V_{CEsat} typ (mV); $I_C = 0.5$ A; $I_B = 0.05$ A	V_{CEsat} max (mV)	@ I_C (A)	@ I_B (A)	Polarity	h_{FE1}/h_{FE2}	
100	3	6	150	0.5	10	50	300	3	0.2	2XNPN	-	PHPT610030NK (-Q)
						70	400	3	0.2	2XPNP	-	PHPT610030PK (-Q)
						50 / 70	300 / 400	3	0.2	NPN/PNP	-	PHPT610030NPK
						50	300	3	0.2	2XNPN	0.95	PHPT610035NK
						70	400	3	0.2	2XPNP	0.9	PHPT610035PK

Resistor equipped transistors (RETs)

50 V/100 mA single NPN RETs

Package					Automotive-qualified						
					SOT23	SOT323 (SC-70)	DFN1412D-3 (SOT8009)	DFN1110D-3 (SOT8015)	DFN1006B-3 (SOT883B)		
					Leaded SMD		DFN				
Size (mm)					2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95	1.4 x 1.2 x 0.47	1.1 x 1.0 x 0.47	1.0 x 0.6 x 0.37		
P _{tot} (mW)					250	200	360	340	250		
V _{CE0} (V)	I _c (mA)	Configuration	R1 (kΩ)	R2 (kΩ)	NPN						
50	100	R1 = R2	1	1							
			2.2	2.2	PDTC123ET	PDTC123EU				PDTC123EMB	
			4.7	4.7	PDTC143ET (-Q)	PDTC143EU (-Q)	PDTC143EQC (-Q)	PDTC143EQB (-Q)		PDTC143EMB	
			10	10	PDTC114ET (-Q)	PDTC114EU (-Q)	PDTC114EQC (-Q)	PDTC114EQB (-Q)		PDTC114EMB	
			22	22	PDTC124ET (-Q)	PDTC124EU (-Q)	PDTC124EQC (-Q)	PDTC124EQB (-Q)		PDTC124EMB	
			47	47	PDTC144ET (-Q)	PDTC144EU (-Q)	PDTC144EQC (-Q)	PDTC144EQB (-Q)		PDTC144EMB	
					100	100	PDTC115ET	PDTC115EU			PDTC115EMB
		R1 ≠ R2	1	10							
			2.2	10	PDTC123YT	PDTC123YU				PDTC123YMB	
			2.2	47	PDTC123JT (-Q)	PDTC123JU (-Q)	PDTC123JQC (-Q)	PDTC123JQB (-Q)		PDTC123JMB	
			4.7	10	PDTC143XT	PDTC143XU	PDTC143XQC (-Q)	PDTC143XQB (-Q)		PDTC143XMB	
			4.7	47	PDTC143ZT	PDTC143ZU	PDTC143ZQC (-Q)	PDTC143ZQB (-Q)		PDTC143ZMB	
			10	47	PDTC114YT (-Q)	PDTC114YU (-Q)	PDTC114YQC (-Q)	PDTC114YQB (-Q)		PDTC114YMB	
			22	47	PDTC124XT	PDTC124XU	PDTC124XQC (-Q)	PDTC124XQB (-Q)		PDTC124XMB	
			47	10	PDTC144VT	PDTC144VU				PDTC144VMB	
		47	22	PDTC144WT	PDTC144WU				PDTC144WMB		
		Only R1	2.2	-	PDTC123TT	PDTC123TU				PDTC123TMB	
			4.7	-	PDTC143TT	PDTC143TU				PDTC143TMB	
			10	-	PDTC114TT	PDTC114TU				PDTC114TMB	
			22	-	PDTC124TT	PDTC124TU				PDTC124TMB	
			47	-	PDTC144TT	PDTC144TU				PDTC144TMB	
100	-		PDTC115TT	PDTC115TU				PDTC115TMB			

50 V/100 mA single PNP RETs

Package					Automotive-qualified				
					SOT23	SOT323 (SC-70)	DFN1412D-3 (SOT8009)	DFN1110D-3 (SOT8015)	DFN1006B-3 (SOT883B)
					Leaded SMD		DFN		
Size (mm)					2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95	1.4 x 1.2 x 0.47	1.1 x 1.0 x 0.47	1.0 x 0.6 x 0.37
P _{tot} (mW)					250	200	360	340	250
V _{CEO} (V)	I _C (mA)	Configuration	R1 (kΩ)	R2 (kΩ)	PNP				
50	100	R1 = R2	1	1	PDTA113ET	PDTA113EU			PDTA113EMB
			2.2	2.2	PDTA123ET	PDTA123EU			PDTA123EMB
			4.7	4.7	PDTA143ET (-Q)	PDTA143EU (-Q)	PDTA143EQC (-Q)	PDTA143EQB (-Q)	PDTA143EMB
			10	10	PDTA114ET (-Q)	PDTA114EU (-Q)	PDTA114EQC (-Q)	PDTA114EQB (-Q)	PDTA114EMB
			22	22	PDTA124ET (-Q)	PDTA124EU (-Q)	PDTA124EQC (-Q)	PDTA124EQB (-Q)	PDTA124EMB
			47	47	PDTA144ET (-Q)	PDTA144EU (-Q)	PDTA144EQC (-Q)	PDTA144EQB (-Q)	PDTA144EMB
			100	100	PDTA115ET	PDTA115EU			PDTA115EMB
		R1 ≠ R2	1	10	PDTA113ZT	PDTA113ZU			PDTA113ZMB
			2.2	10	PDTA123YT	PDTA123YU			PDTA123YMB
			2.2	47	PDTA123JT (-Q)	PDTA123JU (-Q)	PDTA123JQC (-Q)	PDTA123JQB (-Q)	PDTA123JMB
			4.7	10	PDTA143XT	PDTA143XU	PDTA143XQC (-Q)	PDTA143XQB (-Q)	PDTA143XMB
			4.7	47	PDTA143ZT	PDTA143ZU	PDTA143ZQC (-Q)	PDTA143ZQB (-Q)	PDTA143ZMB
			10	47	PDTA114YT (-Q)	PDTA114YU (-Q)	PDTA114YQC (-Q)	PDTA114YQB (-Q)	PDTA114YMB
			22	47	PDTA124XT	PDTA124XU		PDTA124XQC (-Q)	PDTA124XMB
			47	10	PDTA144VT	PDTA144VU			PDTA144VMB
		47	22	PDTA144WT	PDTA144WU			PDTA144WMB	
		Only R1	2.2	-	PDTA123TT	PDTA123TU			PDTA123TMB
			4.7	-	PDTA143TT	PDTA143TU			PDTA143TMB
			10	-	PDTA114TT	PDTA114TU			PDTA114TMB
			22	-	PDTA124TT	PDTA124TU			PDTA124TMB
			47	-	PDTA144TT	PDTA144TU			PDTA144TMB
100	-		PDTA115TT	PDTA115TU			PDTA115TMB		

Resistor equipped transistors (RETs)

50 V/100 mA double RETs

Package					Automotive-qualified										
					DFN1010B-6 (SOT1216)			DFN1412-6 (SOT1268)			SOT363 (SC-88)				
Size (mm)					1.1 x 1.0 x 0.37			1.4 x 1.2 x 0.5			2.0 x 1.25 x 0.95				
P _{tot} (mW)					350			480			300				
V _{CEO} (V)	I _C (mA)	Configuration	R1 (kΩ)	R2 (kΩ)	NPN / NPN	NPN / PNP	PNP / PNP	NPN / NPN	NPN / PNP	PNP / PNP	NPN / NPN	NPN / PNP	PNP / PNP		
50	100	R1 = R2	2.2	2.2								PUMH20	PUMD20	PUMB20	
			4.7	4.7								PUMH15	PUMD15	PUMB15	
			10	10	PQMH11	PQMD3	PQMB11	PRMH11	PRMD3	PRMB11	PUMH11 (-Q)	PUMD3 (-Q)	PUMB11 (-Q)		
			22	22		PQMD2			PRMD2		PUMH1 (-Q)	PUMD2 (-Q)	PUMB1		
			47	47	PQMH2	PQMD12		PRMH2	PRMD12		PUMH2 (-Q)	PUMD12 (-Q)	PUMB2 (-Q)		
			100	100							PUMH24	PUMD24	PUMB24		
		R1 ≠ R2	2.2	47	PQMH10	PQMD10		PRMH10	PRMD10		PUMH10 (-Q)	PUMD10 (-Q)	PUMB10		
			4.7	10							PUMH18	PUMD18	PUMB18		
			4.7	47	PQMH13	PQMD13		PRMH13	PRMD13		PUMH13 (-Q)	PUMD13 (-Q)	PUMB13 (-Q)		
			10	47	PQMH9			PRMH9			PUMH9 (-Q)	PUMD9 (-Q)	PUMD9 (-Q)		
			22	47		PQMD16			PRMD16		PUMH16	PUMD16	PUMB16		
			47	22							PUMH17	PUMD17	PUMB17		
		47 / 2.2	47 / 47										PUMD48 (-Q)		
		Only R1	2.2	-									PUMH30	PUMD30	PUMB30
			4.7	-									PUMH7	PUMD6	PUMB3
			10	-									PUMH4	PUMD4 (-Q)	PUMB4
			22	-									PUMH19	PUMD19	PUMB19
			47	-									PUMH14	PUMD14	PUMB14

80 V/100 mA single/double RETs

Package					Automotive-qualified						
					SOT23		SOT323 (SC-70)		SOT363 (SC-88)		
Size (mm)					2.9 x 1.3 x 1.0		2.0 x 1.25 x 0.95		2.0 x 1.25 x 0.95		
P _{tot} (mW)					250		200		300		
V _{CEO} (V)	I _C (mA)	Configuration	R1 (kΩ)	R2 (kΩ)	NPN	PNP	NPN	PNP	NPN / NPN	NPN / PNP	PNP / PNP
80	100	R1 = R2	10	10	NHDTTC114ET	NHDTA114ET	NHDTTC114EU	NHDTA114EU	NHUMH11	NHUMD3	NHUMB11
			22	22	NHDTTC124ET	NHDTA124ET	NHDTTC124EU	NHDTA124EU	NHUMH1	NHUMD2	NHUMB1
			47	47	NHDTTC144ET	NHDTA144ET	NHDTTC144EU	NHDTA144EU	NHUMH2	NHUMD12	NHUMB2
		R1 ≠ R2	2.2	47	NHDTTC123JT	NHDTA123JT	NHDTTC123JU	NHDTA123JU	NHUMH10	NHUMD10	NHUMB10
			4.7	47	NHDTTC143ZT	NHDTA143ZT	NHDTTC143ZU	NHDTA143ZU	NHUMH13	NHUMD13	NHUMB13
			10	47	NHDTTC114YT	NHDTA114YT	NHDTTC114YU	NHDTA114YU	NHUMH9	NHUMD9	NHUMB9

50 V/500 mA single/double RETs

Types in **bold** represent new products






Package					Automotive-qualified									
					SOT457 (SC-74)			SOT23		SOT323 (SC-70)		DFN1010D-3 (SOT1215)		
Size (mm)					2.9 x 1.5 x 1.0			2.9 x 1.3 x 1.0		2.0 x 1.25 x 0.95		1.1 x 1.0 x 0.37		
P _{tot} (mW)					750			250		200		750		
V _{CEO} (V)	I _c (mA)	Configuration	R1 (kΩ)	R2 (kΩ)	NPN / NPN	NPN / PNP	PNP / PNP	NPN	PNP	NPN	PNP	NPN	PNP	
50	500	R1 = R2	1	1				PDTD113ET	PDTB113ET	PDTD113EU	PDTB113EU	PDTD113EQA	PDTB113EQA	
			2.2	2.2				PDTD123ET	PDTB123ET	PDTD123EU	PDTB123EU	PDTD123EQA	PDTB123EQA	
			4.7	4.7				PDTD143ET	PDTB143ET	PDTD143EU	PDTB143EU	PDTD143EQA	PDTB143EQA	
			10	10				PDTD114ET	PDTB114ET	PDTD114EU	PDTB114EU	PDTD114EQA	PDTB114EQA	
		R1 ≠ R2	1	10	PIMN31	PIMC31	PIMP31 (-Q)		PDTD113ZT	PDTB113ZT	PDTD113ZU	PDTB113ZU	PDTD113ZQA	PDTB113ZQA
			2.2	10	PIMN32 (-Q)	PIMC32 (-Q)	PIMP32 (-Q)		PDTD123YT	PDTB123YT	PDTD123YU	PDTB123YU	PDTD123YQA	PDTB123YQA
			4.7	10					PDTD143XT	PDTB143XT	PDTD143XU	PDTB143XU	PDTD143XQA	PDTB143XQA
		Only R1	2.2	-				PDTD123TT	PDTB123TT					

40V/600 mA Performance-based RETs

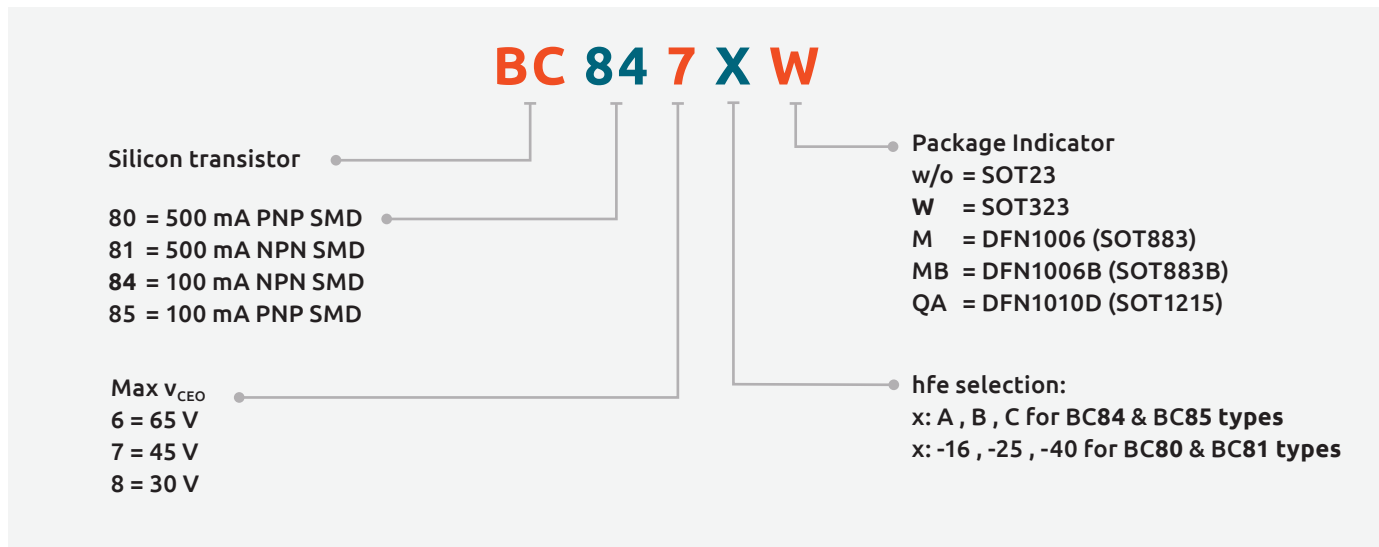
Package					Automotive-qualified	
					SOT23	
Size (mm)					2.9 x 1.3 x 1.0	
P _{tot} (mW)					250	
V _{CEO} (V)	I _c (mA)		R1 (kΩ)	R2 (kΩ)	NPN	PNP
40	600	R1 = R2	1	1	PBRN113ET (-Q)	PBRP113ET (-Q)
			2.2	2.2	PBRN123ET (-Q)	PBRP123ET (-Q)
		R1 ≠ R2	1	10	PBRN113ZT (-Q)	PBRP113ZT (-Q)
			2.2	10	PBRN123YT (-Q)	PBRP123YT (-Q)

3-terminal adjustable shunt regulators

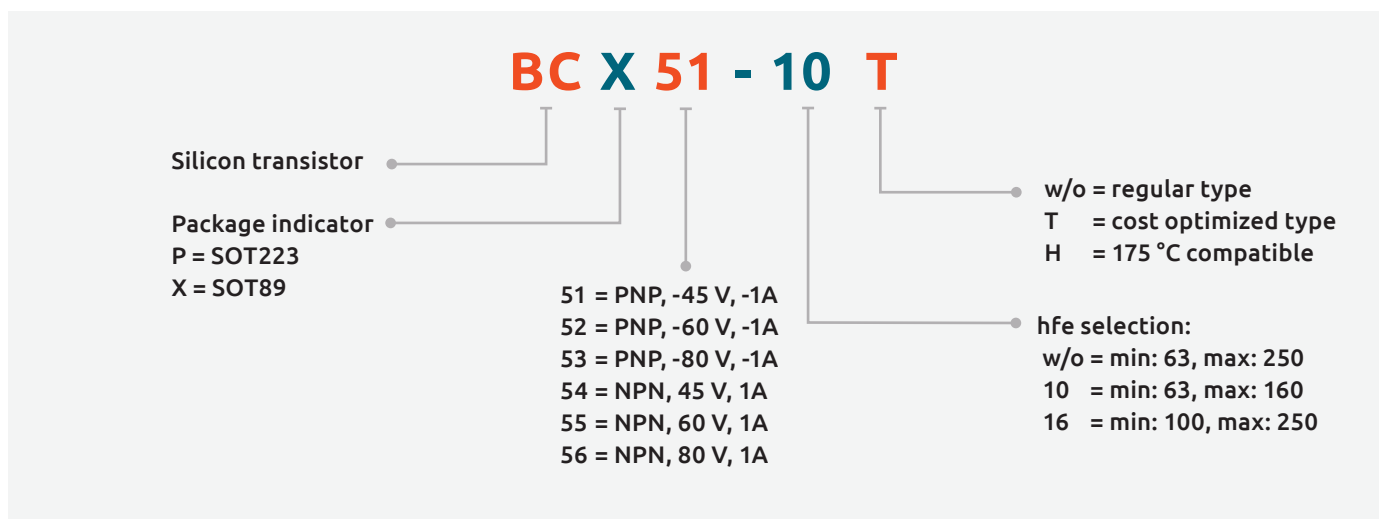
3-terminal adjustable shunt regulators

Automotive-qualified											
Type name	Pinning configuration	T _{amb} (C°)	V _{ref}		Package	Size(mm)	P _{tot} (mW)	V _{KA} (V)	I _K (mA)		
TLVH431NCDBZR	Normal pinning	0 to 70	1.5%	1.24		2.9 x 1.3 x 1.0	480	20	80		
TLVH431NIDBZR	Normal pinning	-40 to 85									
TLVH431NQDBZR	Normal pinning	-40 to 125									
TLVH431NMQDBZR	MIRrored pinning										
TLVH431NACDBZR	Normal pinning	0 to 70	1%	1.24				2.9 x 1.3 x 1.0	480	20	80
TLVH431NAIDBZR	Normal pinning	-40 to 85									
TLVH431NAQDBZR	Normal pinning	-40 to 125									
TLVH431NAMQDBZR	MIRrored pinning										
TL431CDBZR	Normal pinning	0 to 70	2%	2.495		2.9 x 1.3 x 1.0			580	36	100
TL431IDBZR	Normal pinning	-40 to 85									
TL431QDBZR	Normal pinning	-40 to 125									
TL431FDT	Normal pinning										
TL431MFD	MIRrored pinning		1%	2.495				2.9 x 1.3 x 1.0	580	36	100
TL431ACDBZR	Normal pinning	0 to 70									
TL431AIDBZR	Normal pinning	-40 to 85									
TL431AQDBZR	Normal pinning	-40 to 125									
TL431AFDT	Normal pinning										
TL431AMFDT	MIRrored pinning		0.5%	2.495		2.9 x 1.3 x 1.0			580	36	100
TL431BCDBZR	Normal pinning	0 to 70									
TL431BIDBZR	Normal pinning	-40 to 85									
TL431BQDBZR	Normal pinning	-40 to 125									
TL431BFDT	Normal pinning										
TL431BMFDT	MIRrored pinning										

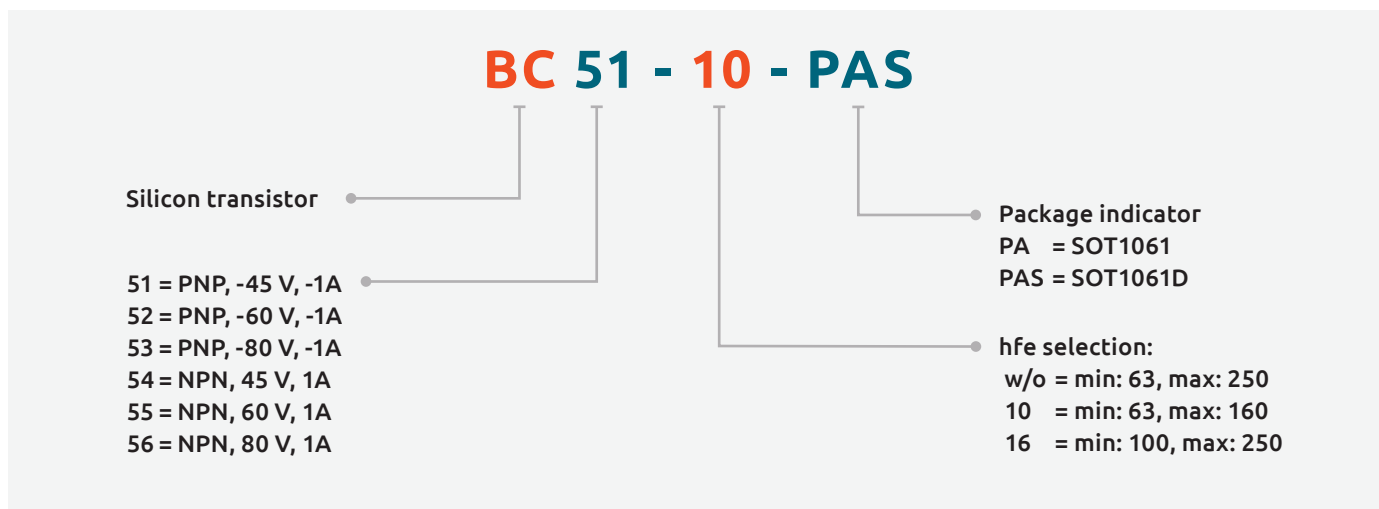
General purpose bipolar transistors



General purpose power transistors

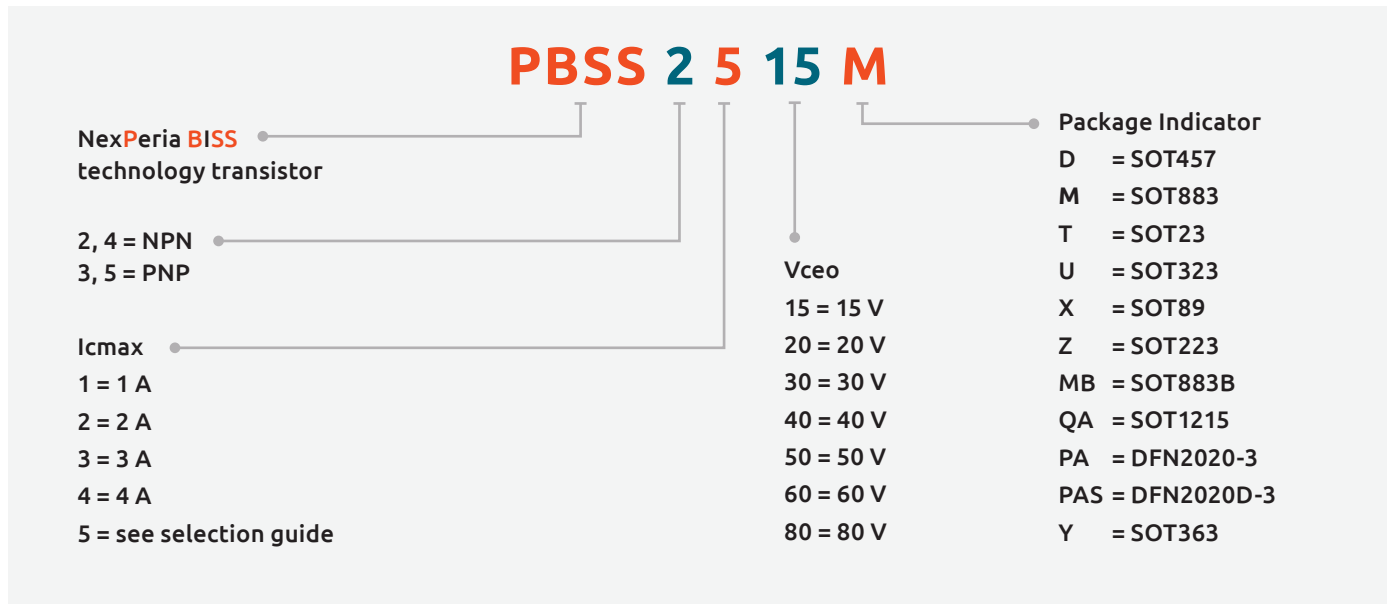


General purpose power transistors

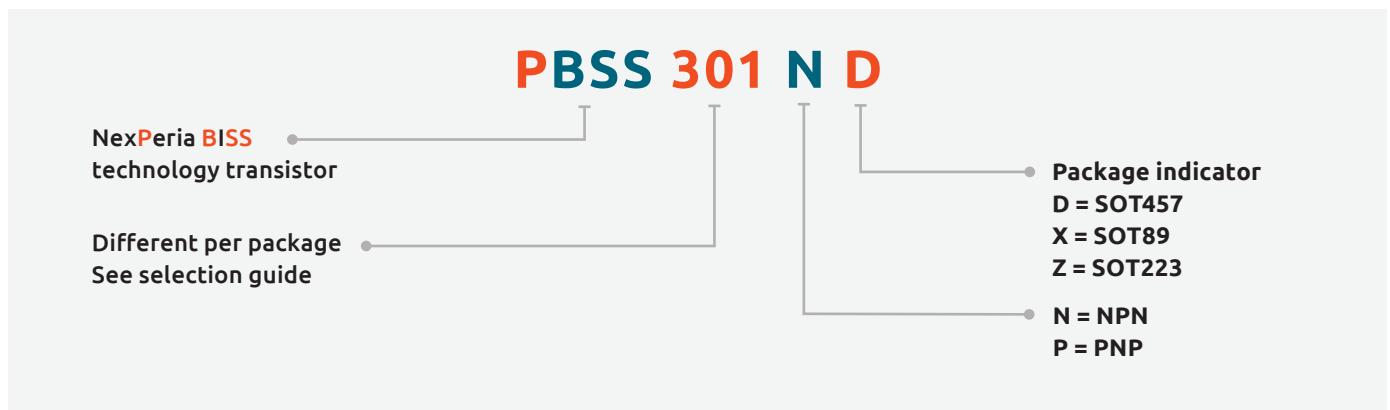


Nomenclatures

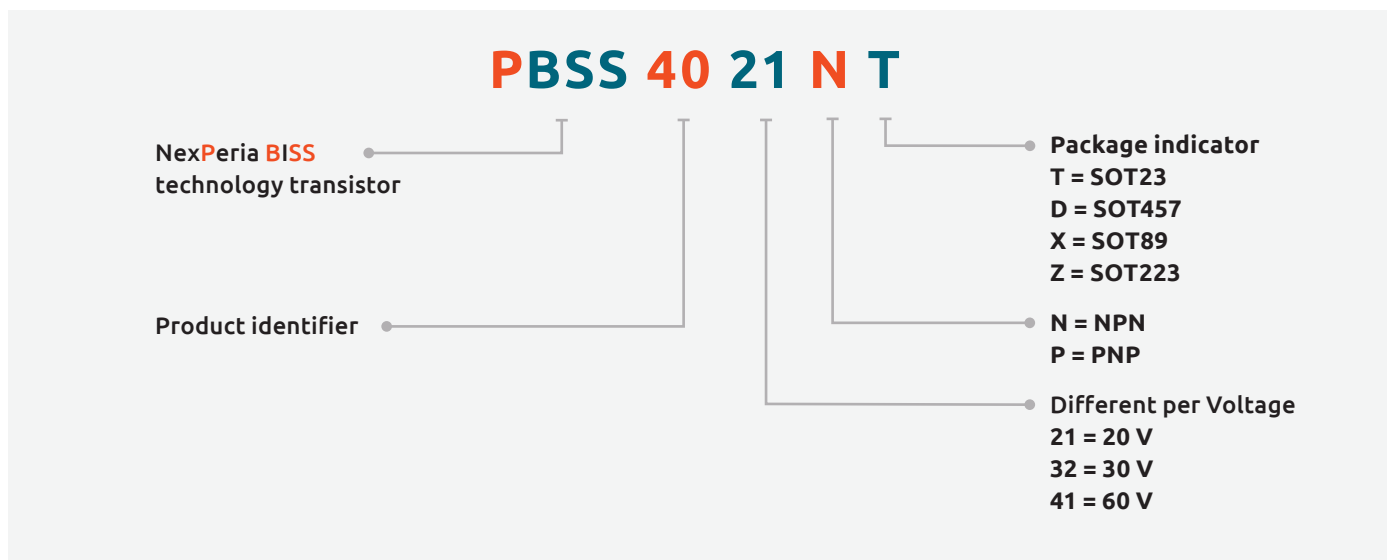
Low V_{CEsat} transistors

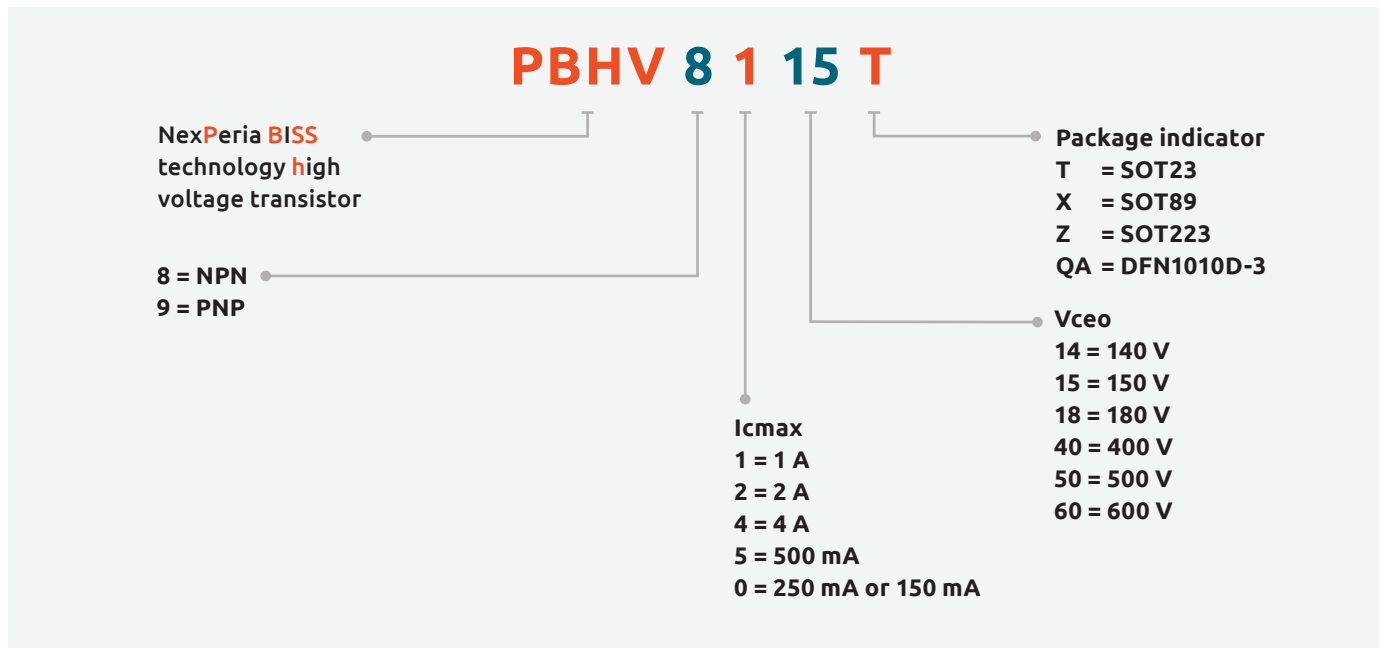


3rd generation Low V_{CEsat} transistors

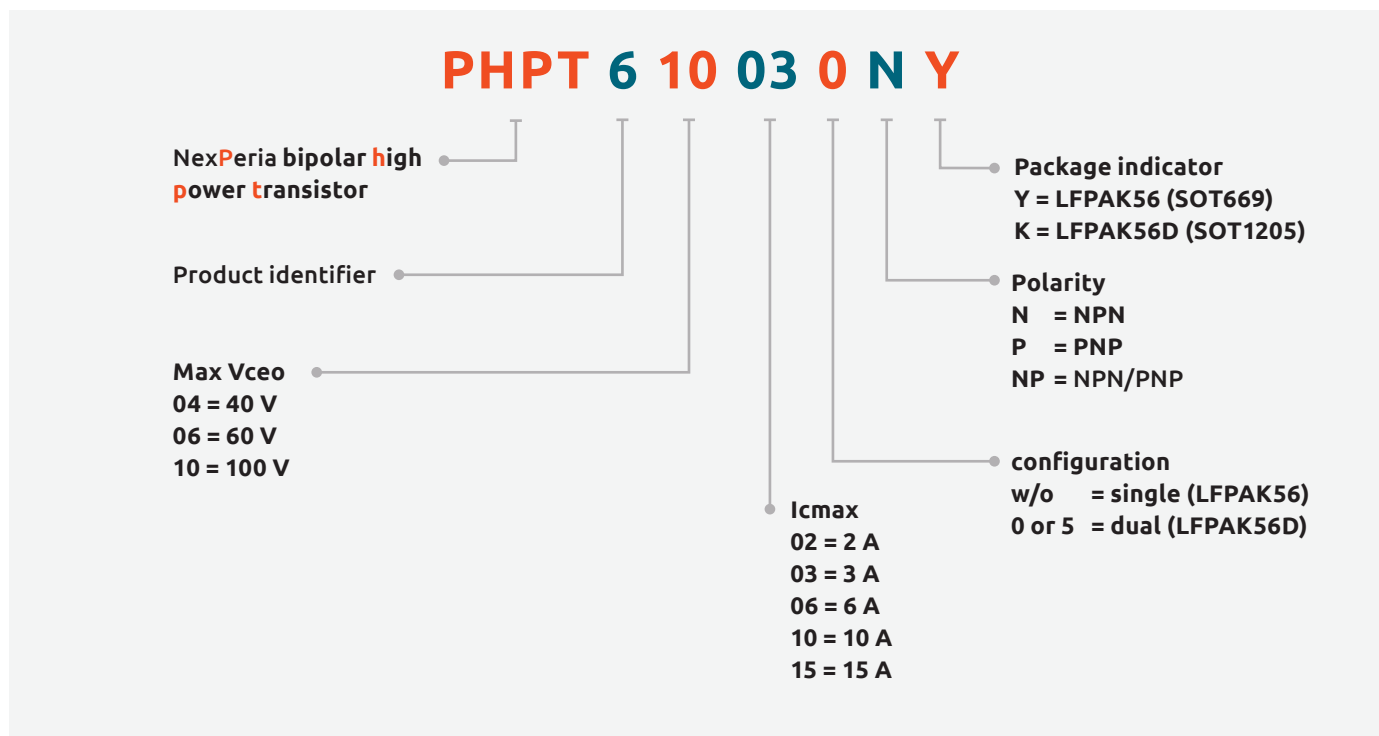


4th generation Low V_{CEsat} transistors



High-voltage Low V_{CEsat} transistors

Transistors in a LFPAK SMD package



















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Zener diodes

General purpose Zener diodes Part 1

I_F max (mA)	P_{ZSM} (W)	V_Z nom (V)	V_Z tolerance	Note	Configuration	Series	Package	Automotive - qualified	Size (mm)	P_{tot} (mW)												
200	40	2.4~75	B, C	Europe	Single		BZX8845-Q series	DFN1006BD-2 (SOD882BD)	Yes	1.0 x 0.6 x 0.47	365											
			BZX884S series				No															
		1.8"10	C				BZX8850S-Q series		Yes													
			C				BZX8850S series		No													
200	40	2.4~75	B, C	Europe	Single		BZX884 series	DFN1006-2 (SOD882)	Yes	1.0 x 0.6 x 0.48	250											
		2.4~36	B, B2	Japan			PZUxBL series		Yes		550											
200	40	2.4~75	B, C	Europe	Single		BZX585 series	SOD523 (SC-79)	Yes	1.2 x 0.8 x 0.6	300											
			2.4~36				B		SZMM5Z series			Yes										
		B					MM5Z series		No													
		1.8"10	C				BZX58550-Q series		Yes													
			C				BZX58550 series		No													
200	30	100	C	Europe	Back-to-back		BZB100A	SOD323 (SC-76)	Yes	1.7 x 1.25 x 0.95	830											
			2.4~36	B, B1, B2, B3	Japan	Single					PZUxBA series	No	320									
				B	PDZ-B series						No	400										
	40	2.4~75	B	Europe	Single		SZMM3Z series		Yes		No	300										
			A, B, C				MM3Z series		No													
			1.8"10				C		BZX384-Q series				Yes									
							C		BZX384 series				No									
	250	40	2.4~75	C	Europe	Single			BZX38450-Q series		SOD323F (SC-90)	Yes	1.7 x 1.25 x 0.7	1000								
									BZX38450 series						No							
									1.8"10						C	BZX384 series	No					
C								BZX38450-Q series		Yes												
200								60	100	C					Europe	Single		BZX100A	SOD323F (SC-90)	Yes	1.7 x 1.25 x 0.7	550
									40	B, B1, B2, B3					Japan			PZUxB series				Yes
250								40	2.4~75	B, C					Europe	Single		BZX84J series	SOD123	Yes	2.7 x 1.6 x 1.2	590
	2.4~30	B	Europe	TDZxJ series	Yes	625																
250	40	2.4~75	B, C	Europe	Single		BZT52 series	SOD123F	Yes	2.6 x 1.6 x 1.1	1000											
		2.4~36	B	Japan			PDZ-GW series				Yes	830										
250	-	3.0~30	About 2.5%	Special	Single		NZH series	SOD123F	Yes	2.6 x 1.6 x 1.1	1000											
		2.4~75	A, B, C	Europe			BZT52H series				Yes	830										
200	40	2.4~75	B, C	Europe	Dual c.a.		BZB84 series	SOT23	Yes	2.9 x 1.3 x 1.0	300											
			2.4~75		A, B, C	Single						BZX84-Q series	No									
		1.8"10			A, B, C							BZX84 series	Yes									
			C		BZX8450-Q series	No																
C	BZX8450 series	No																				
250	30	5~6.8	0.2 V	Ave	Single		PLVA600A series	Yes														

Notes:

Japan: B selection: app. 5% V_Z tolerance, B1, B2, B3 selections: app. 2% V_Z tolerance in sequential intervals Europe: A selection: app. 1% V_Z tolerance, B selection: app. 2% V_Z tolerance, C selection: app. 5% V_Z tolerance; the selections are in overlapping intervals

Ave: low-voltage avalanche regulator diodes Dual c.a.: dual common anode

General purpose Zener diodes Part 2







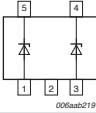



I_F max (mA)	P_{ZSM} (W)	V_Z nom (V)	V_Z tolerance	Note	Configuration		Series	Package	Automotive - qualified	Size (mm)	P_{tot} (mW)
200	40	2.4~15	C	Europe	Dual c.a.		BZB784 series	SOT323 (SC-70)	Yes	2.0 x 1.25 x 0.95	350
		2.4~75	B, C		Single		n.c.	BZX84W series			
200	40	10	B2	Japan	Dual isolated		PZU10DB2	SOT353 (SC-88A)	Yes	2.0 x 1.25 x 0.95	275
400	40	2.4~75	C	Europe	Single		BZV90 series	SOT223 (SC-73)	Yes	6.5 x 3.5 x 1.65	1500
250	40	2.4~75	C	Europe	Single		BZV49 series	SOT89 (SC-62)	Yes	4.5 x 2.5 x 1.5	1000
400	800	5.6~75	C	Europe	Single		HPZR-Q series	CFP3 (SOD123W)	Yes	2.6 x 1.7 x 1.0	4100
		5.6~75	C	Europe	Single		HPZR series		No		2.6 x 1.7 x 1.0

A-Selection Zener Diodes (1% V_Z tolerance)













I_F max (mA)	P_{ZSM} (W)	V_Z nom (V)	V_Z tolerance	Note	Configuration		Series	Package	Automotive - qualified	Size (mm)	P_{tot} (mW)
250	40	2.4~75	A	Europe	Single		BZX384-A (-Q) series	SOD323 (SC-76)	No	1.7 x 1.25 x 0.95	300
250	40	2.4~75	A	Europe	Single		BZT52H-A (-Q) series	SOD123F	Yes	2.6 x 1.6 x 1.1	830
200	40	2.4~75	A	Europe	Single		BZX84-A (-Q) series	SOT23	Yes	2.9 x 1.3 x 1.0	250

Zener diodes









Low Leakage (low I_r) Zener Diodes

I_F max (mA)	P_{ZSM} (W)	V_Z nom (V)	V_Z tolerance	Note	Configuration		Series	Package	Automotive - qualified	Size (mm)	P_{tot} (mW)
200	40	5.1~10	B, B2	Japan	Single		PZUxBL series	DFN1006-2 (SOD882) 	Yes	1.0 x 0.6 x 0.48	250
200	40	5.1~10	B, B1, B2, B3	Japan	Single		PZUxBA series	SOD323 (SC-76) 	Yes	1.7 x 1.25 x 0.95	300
200	40	5.1~10	B, B1, B2, B3	Japan	Single		PZUxB series	SOD323F (SC-90) 	Yes	1.7 x 1.25 x 0.7	550
200	40	10	B2	Japan	Dual isolated		PZU10DB2 series	SOT353 (SC-88A) 	Yes	2.0 x 1.25 x 0.95	300
250	30	5~6.8	0.2 V	Ave	Single		PLVA600A series	SOT23 	Yes	2.9 x 1.3 x 1.0	250





Low Differential Resistance (low R_z) Zener Diodes

I_F max (mA)	P_{ZSM} (W)	V_Z nom (V)	V_Z tolerance	Note	Configuration		Series	Package	Automotive - qualified	Size (mm)	P_{tot} (mW)
200	40	2.4~36	B, B1, B2, B3		Single		PZUxBA series	SOD323 (SC-76) 	Yes	1.7 x 1.25 x 0.95	300
200	40	2.4~36	B, B1, B2, B3	Japan	Single		PZUxB series	SOD323F (SC-90) 	Yes	1.7 x 1.25 x 0.95	300
200	40	2.4~36	B, B2	Japan	Single		PZUxBL series	DFN1006-2 (SOD882) 	Yes	1.0 x 0.6 x 0.48	250
200	40	2.4~36	B	Japan	Single		PDZ-GW series	SOD123 	Yes	2.7 x 1.6 x 1.2	625
200	40	2.4~36	B	Japan	Single		PDZ-B series	SOD323F (SC-90) 	Yes	1.7 x 1.25 x 0.95	300
250	30	5~6.8	0.2 V	Ave	Single		PLVA600A series	SOT23 	Yes	2.9 x 1.3 x 1.0	250



50 μ A Zener Diodes (V_z @ 50 μ A)

I_F max (mA)	P_{ZSM} (W)	V_z nom (V)	V_z tolerance	Note	Configuration		Series	Package	Automotive - qualified	Size (mm)	P_{tot} (mW)
200	40	1.8"10	C	Europe	Single		BZX8850s-Q series BZX8850s series	DFN1006BD-2 (SOD882BD) 	Yes No	1.0 x 0.6 x 0.47	365
200	40	1.8"10	C	Europe	Single		BZX58550-Q series BZX58550 series	SOD523 (SC-79) 	Yes No	1.2 x 0.8 x 0.6	300
250	40	1.8"10	C	Europe	Single		BZX38450-Q series BZX38450 series	SOD323 (SC-76) 	Yes No	1.7 x 1.25 x 0.95	300
200	40	1.8"10	C	Europe	Single		BZX8450-Q series BZX8450 series	SOT23 	Yes No	2.9 x 1.3 x 1.0	250

High non-repetitive peak reverse power dissipation (P_{ZSM}) ZenerTypes in **bold** represent new products

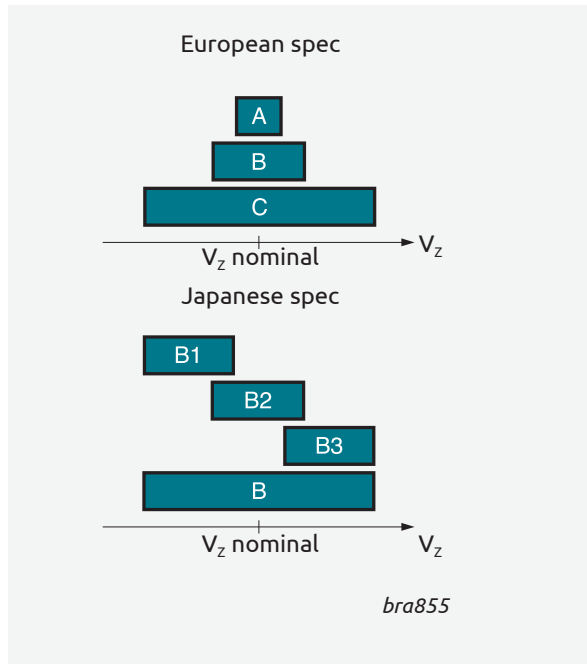
I_F max (mA)	P_{ZSM} (W)	V_z nom (V)	V_z tolerance	Note	Configuration		Series	Package	Automotive - qualified	Size (mm)	P_{tot} (mW)
250	100-180	2.4~6.8	B	Europe	Single		TDZxJ series	SOD323F (SC-90) 	Yes	1.7 x 1.25 x 0.7	500
	100		B, C				BZX84J series				
400	800	5.6"75	C	Europe	Single		HPZR-Q series	CFP3 (SOD123W) 	Yes	2.6 x 1.7 x 1.0	5500
		5.6"75	C	Europe	Single		HPZR series		No		4100

High power voltage regulator Zener Diodes (high P_{tot})Types in **bold** represent new products

I_F max (mA)	P_{ZSM} (W)	V_z nom (V)	V_z tolerance	Note	Configuration		Series	Package	Automotive - qualified	Size (mm)	P_{tot} (mW)
400	800	5.6"75	C	Europe	Single		HPZR-Q series	CFP3 (SOD123W) 	Yes	2.6 x 1.7 x 1.0	5500
		5.6"75	C	Europe	Single		HPZR series		No		4100

Zener diodes specifications

Differences in Zener specifications



Japanese spec (PZU, PDZ)

y =	B-series ± 5% V_z (V)	B1-series ± 2% V_z (V)	B2-series ± 2% V_z (V)	B3-series ± 2% V_z (V)
PZU2.4y	2.3 - 2.6	-	-	-
PZU2.7y	2.5 - 2.9	2.5 - 2.75	2.65 - 2.9	-
PZU3.0y	2.8 - 3.2	2.8 - 3.05	2.95 - 3.2	-
PZU3.3y	3.1 - 3.5	3.1 - 3.35	3.25 - 3.5	-
PZU3.6y	3.4 - 3.8	3.4 - 3.65	3.55 - 3.8	-
PZU3.9y	3.7 - 4.1	3.7 - 3.97	3.87 - 4.1	-
PZU4.3y	4.01 - 4.48	4.01 - 4.21	4.15 - 4.34	4.28 - 4.48
PZU4.7y	4.42 - 4.9	4.42 - 4.61	4.55 - 4.75	4.69 - 4.9
PZU5.1y	4.84 - 5.37	4.84 - 5.04	4.98 - 5.2	5.14 - 5.37
PZU5.6y	5.31 - 5.92	5.31 - 5.55	5.49 - 5.73	5.67 - 5.92
PZU6.2y	5.86 - 6.53	5.86 - 6.12	6.06 - 6.33	6.26 - 6.53
PZU6.8y	6.47 - 7.14	6.47 - 6.73	6.65 - 6.93	6.86 - 7.14
PZU7.5y	7.06 - 7.84	7.06 - 7.36	7.28 - 7.6	7.52 - 7.84
PZU8.2y	7.76 - 8.64	7.76 - 8.1	8.02 - 8.36	8.28 - 8.64
PZU9.1y	8.56 - 9.55	8.56 - 8.93	8.85 - 9.23	9.15 - 9.55
PZU10y	9.45 - 10.55	9.45 - 9.87	9.77 - 10.21	10.11 - 10.55
PZU11y	10.44 - 11.56	10.44 - 10.88	10.76 - 11.22	11.1 - 11.56
PZU12y	11.42 - 12.6	11.42 - 11.9	11.74 - 12.24	12.08 - 12.6
PZU13y	12.47 - 13.96	12.47 - 13.03	12.91 - 13.49	13.37 - 13.96
PZU14y	-	-	13.7 - 14.3	-
PZU15y	13.84 - 15.52	13.84 - 14.46	14.34 - 14.98	14.85 - 15.52
PZU16y	15.37 - 17.09	15.37 - 16.01	15.85 - 16.51	16.35 - 17.09
PZU18y	16.94 - 19.03	16.94 - 17.7	17.56 - 18.35	18.21 - 19.03
PZU20y	18.86 - 21.08	18.86 - 19.7	19.52 - 20.39	20.21 - 21.08
PZU22y	20.88 - 23.17	20.88 - 21.77	21.54 - 22.47	22.23 - 23.17
PZU24y	22.93 - 25.57	22.93 - 23.96	23.72 - 24.78	24.54 - 25.57
PZU27y	25.1 - 28.9	-	-	-
PZU30y	28 - 32	-	-	-
PZU33y	31 - 35	-	-	-
PZU36y	34 - 38	-	-	-




















European spec (BZV, BZX, BZB, 1N47)

y =	C-series ±5% V_z (V)	B-series ±2% V_z (V)	A-series ±1% V_z (V)
BZX84-y2V4	2.2 - 2.6	2.35 - 2.45	2.37 - 2.43
BZX84-y2V7	2.5 - 2.9	2.65 - 2.75	2.67 - 2.73
BZX84-y3V0	2.8 - 3.2	2.94 - 3.06	2.97 - 3.03
BZX84-y3V3	3.1 - 3.5	3.23 - 3.37	3.26 - 3.34
BZX84-y3V6	3.4 - 3.8	3.53 - 3.67	3.56 - 3.64
BZX84-y3V9	3.7 - 4.1	3.82 - 3.98	3.86 - 3.94
BZX84-y4V3	4 - 4.6	4.21 - 4.39	4.25 - 4.35
BZX84-y4V7	4.4 - 5	4.61 - 4.79	4.65 - 4.75
BZX84-y5V1	4.8 - 5.4	5 - 5.2	5.04 - 5.16
BZX84-y5V6	5.2 - 6	5.49 - 5.71	5.54 - 5.66
BZX84-y6V2	5.8 - 6.6	6.08 - 6.32	6.13 - 6.27
BZX84-y6V8	6.4 - 7.2	6.66 - 6.94	6.73 - 6.87
BZX84-y7V5	7 - 7.9	7.35 - 7.65	7.42 - 7.58
BZX84-y8V2	7.7 - 8.7	8.04 - 8.36	8.11 - 8.29
BZX84-y9V1	8.5 - 9.6	8.92 - 9.28	9 - 9.2
BZX84-y10	9.4 - 10.6	9.8 - 10.2	9.9 - 10.1
BZX84-y11	10.4 - 11.6	10.8 - 11.2	10.8 - 11.11
BZX84-y12	11.4 - 12.7	11.8 - 12.2	11.88 - 12.12
BZX84-y13	12.4 - 14.1	12.7 - 13.3	12.87 - 13.13
BZX84-y15	13.8 - 15.6	14.7 - 15.3	14.85 - 15.15
BZX84-y16	15.3 - 17.1	15.7 - 16.3	15.84 - 16.16
BZX84-y18	16.8 - 19.1	17.6 - 18.4	17.82 - 18.18
BZX84-y20	18.8 - 21.2	19.6 - 20.4	19.8 - 20.2
BZX84-y22	20.8 - 23.3	21.6 - 22.4	21.78 - 22.22
BZX84-y24	22.8 - 25.6	23.5 - 24.5	23.76 - 24.24
BZX84-y27	25.1 - 28.9	26.5 - 27.5	26.73 - 27.27
BZX84-y30	28 - 32	29.4 - 30.6	29.70 - 30.30
BZX84-y33	31 - 35	32.3 - 33.7	32.67 - 33.33
BZX84-y36	34 - 38	35.3 - 36.7	35.64 - 36.36
BZX84-y39	37 - 41	38.2 - 39.8	38.61 - 39.39
BZX84-y43	40 - 46	42.1 - 43.9	42.57 - 43.43
BZX84-y47	44 - 50	46.1 - 47.9	-
BZX84-y51	48 - 54	50 - 52	50.49 - 51.51
BZX84-y56	52 - 60	54.9 - 57.1	-
BZX84-y62	58 - 66	60.8 - 63.2	-
BZX84-y68	64 - 72	66.6 - 69.4	-
BZX84-y75	70 - 79	73.5 - 76.5	74.25 - 75.75

NZX-series in SOD27

	V_z (V)		V_z (V)		V_z (V)
NZX2V1B	2.0 - 2.2	NZX6V2D	6.1 - 6.4	NZX14C	13.8 - 14.3
NZX2V4A	2.3 - 2.5	NZX6V2E	6.3 - 6.6	NZX15A	14.1 - 14.7
NZX2V4B	2.4 - 2.6	NZX6V8A	6.4 - 6.7	NZX15B	14.5 - 15.1
NZX2V7A	2.5 - 2.7	NZX6V8B	6.6 - 6.9	NZX15C	14.9 - 15.5
NZX2V7B	2.6 - 2.8	NZX6V8C	6.7 - 7	NZX15X	14.35 - 15.09
NZX2V7C	2.7 - 2.9	NZX6V8D	6.9 - 7.2	NZX16A	15.3 - 15.9
NZX3V0A	2.8 - 3	NZX7V5A	7 - 7.3	NZX16B	15.7 - 16.5
NZX3V0B	2.9 - 3.1	NZX7V5B	7.2 - 7.6	NZX16C	16.3 - 17.1
NZX3V0C	3 - 3.2	NZX7V5C	7.3 - 7.7	NZX18A	16.9 - 17.7
NZX3V3A	3.1 - 3.3	NZX7V5D	7.5 - 7.9	NZX18B	17.5 - 18.3
NZX3V3B	3.2 - 3.4	NZX7V5X	7.07 - 7.45	NZX18C	18.1 - 19
NZX3V3C	3.3 - 3.5	NZX8V2A	7.7 - 8.1	NZX20A	18.8 - 19.7
NZX3V6A	3.4 - 3.6	NZX8V2B	7.9 - 8.3	NZX20B	19.5 - 20.4
NZX3V6B	3.5 - 3.7	NZX8V2C	8.1 - 8.5	NZX20C	20.2 - 21.2
NZX3V6C	3.6 - 3.8	NZX8V2D	8.3 - 8.7	NZX22A	20.9 - 21.9
NZX3V9A	3.7 - 3.9	NZX9V1A	8.5 - 8.9	NZX22B	21.6 - 22.6
NZX3V9B	3.8 - 4	NZX9V1B	8.7 - 9.1	NZX22C	22.3 - 23.3
NZX3V9C	3.9 - 4.1	NZX9V1C	8.9 - 9.3	NZX24A	22.9 - 24
NZX4V3A	4 - 4.2	NZX9V1D	9.1 - 9.5	NZX24B	23.6 - 24.7
NZX4V3B	4.1 - 4.3	NZX9V1E	9.3 - 9.7	NZX24C	24.3 - 25.5
NZX4V3C	4.2 - 4.4	NZX10A	9.5 - 9.9	NZX24X	22.61 - 23.77
NZX4V3D	4.3 - 4.5	NZX10B	9.7 - 10.1	NZX27A	25.2 - 26.6
NZX4V7A	4.4 - 4.6	NZX10C	9.9 - 10.3	NZX27B	26.2 - 27.6
NZX4V7B	4.5 - 4.7	NZX10D	10.2 - 10.6	NZX27C	27.2 - 28.6
NZX4V7C	4.6 - 4.8	NZX11A	10.4 - 10.8	NZX27X	26.99 - 28.39
NZX4V7D	4.7 - 4.9	NZX11B	10.7 - 11.1	NZX30A	28.2 - 29.6
NZX5V1A	4.8 - 5	NZX11C	10.9 - 11.3	NZX30B	29.2 - 30.6
NZX5V1B	4.9 - 5.1	NZX11D	11.1 - 11.6	NZX30C	30.2 - 31.6
NZX5V1C	5 - 5.2	NZX12A	11.4 - 11.9	NZX30X	29.02 - 30.51
NZX5V1D	5.1 - 5.3	NZX12B	11.6 - 12.1	NZX33A	31.2 - 32.6
NZX5V6A	5.2 - 5.5	NZX12C	11.9 - 12.4	NZX33B	32.2 - 33.6
NZX5V6B	5.3 - 5.6	NZX12D	12.2 - 12.7	NZX33C	33.2 - 34.5
NZX5V6C	5.4 - 5.7	NZX12X	11.44 - 12.03	NZX36A	34.2 - 35.7
NZX5V6D	5.5 - 5.8	NZX13A	12.4 - 12.9	NZX36B	35.3 - 36.8
NZX5V6E	5.6 - 5.9	NZX13B	12.6 - 13.1	NZX36C	36.4 - 38
NZX6V2A	5.7 - 6	NZX13C	12.9 - 13.4	NZX36X	35.36 - 37.19
NZX6V2B	5.8 - 6.1	NZX14A	13.2 - 13.7		
NZX6V2C	6 - 6.3	NZX14B	13.5 - 14		




















General purpose, high speed switching diodes <= 90 V

V_R max (V)	V_F max (V)	@ I_F (mA)	I_R max (nA)	@ V_R (V)	t_r max (ns)	Package	Automotive-qualified								
							SOD80C (MiniMelf)	SOT23	SOT143B	SOT323 (SC-70)	SOT363 (SC-88)	DFN1412-6 (SOT1268)	DFN1010D-3 (SOT1215)	DFN1006-3 (SOT883)	
															
							Size (mm)	3.5 x 1.5 x 1.5	2.9 x 1.3 x 1.0	2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95	2.0 x 1.25 x 0.95	1.4 x 1.2 x 0.5	1.1 x 1.0 x 0.37	1.0 x 0.6 x 0.48
P_{tot} (mW)	400	250	250	200	350	480	325	250							
50	1	50	100	50	4			BAL74							
								BAV74							
70	1	50	1000	70	4			BAL99							
75	1	50	1000	75	4				BAS28						
		100	5000	75	4		BAS32L								
80	1	50	500	80	4					1PS300					
										1PS301					
										1PS302					
90	1	50	500	80	4			BAW56 (-Q)		BAW56W (-Q)		BAW56QA	BAW56M		
										BAW56S (-Q)	BAW56SRA				
										BAW756S					













Diodes

Switching diodes




































General purpose, high speed switching diodes 100 V (Leaded SMD)

							Automotive-qualified									
V_R max (V)	V_F max (V)	@ I_F (mA)	I_R max (mA)	@ V_R (V)	t_{rr} max (ns)	Package	SOT23	SOD123	SOD123F	SOT323 (SC-70)	SOT363 (SC-88)	SOD323 (SC-76)	SOD323F (SC-90)	SOD523 (SC-79)	DFN1006BD-2 (SOD882BD)	DFN1412D-3 (SOT8009)
100	1	50	500	80	4											
						Size (mm)	2.9 x 1.3 x 1.0	2.7 x 1.6 x 1.2	2.6 x 1.6 x 1.1	2.0 x 1.25 x 0.95	2.0 x 1.25 x 0.95	1.7 x 1.25 x 0.95	1.7 x 1.25 x 0.7	1.2 x 0.8 x 0.6	1 x 0.6 x 0.47	1.4 x 1.2 x 0.47
						P_{tot} (mW)	250	380	375	200	300	300	300	250	345	345
								BAS16GW	BAS16H (-Q)			BAS316 (-Q)	BAS16J (-Q)	BAS516 (-Q)		
							BAS16 (-Q)			BAS16W (-Q)						
											BAS16VY (-Q)					
							BAV70 (-Q)			BAV70W (-Q)						
											BAV70S (-Q)					
							BAV99 (-Q)			BAV99W (-Q)						
											BAV99S					
															BAS16LS (-Q)	
																BAV99QC (-Q)

General purpose, high speed switching diodes 100 V (Leadless DFN)

							Automotive-qualified					
V_R max (V)	V_F max (V)	@ I_F (mA)	I_R max (mA)	@ V_R (V)	t_{rr} max (ns)	Package	DFN1412-6 (SOT1268)	DFN1010D-3 (SOT1215)	DFN1006-2 (SOD882)	DFN1006-3 (SOT883)	DFN1006D-2 (SOD882D)	DFN1006BD-2 (SOD882BD)
100	1	50	500	80	4							
						Size (mm)	1.4 x 1.2 x 0.5	1.1 x 1.0 x 0.37	1.0 x 0.6 x 0.48	1.0 x 0.6 x 0.48	1.0 x 0.6 x 0.37	1.0 x 0.6 x 0.47
						P_{tot} (mW)	480	325	250	250	250	250
									BAS16L (-Q)		BAS16LD	BAS16LS
								BAS16QA				
										BAV70M		
							BAV70SRA					
								BAV99QA				
												

General purpose, switching diodes >= 100 V

						Automotive-qualified																		
V_r max (V)	V_f max (V)	@ I_f (mA)	I_r max (nA)	@ V_r (V)	t_{rr} max (ns)	Package	SOD80C (MiniMeF)	SOT457 (SC-74)	SOT23	SOT143B	SOD123	SOD123F	SOT323 (SC-70)	SOT353 (SC-88A)	SOT363 (SC-88)	SOD323 (SC-76)	SOD323F (SC-90)	SOD523 (SC-79)	DFN1006D-2 (SOD882(D))	DFN1010D-3 (SOT1215)	DFN1006BD-2 (SOD882BD)	DFN110D-3 (SOT8015)	DFN1412D-3 (SOT8009)	
																								
							3.5 x 1.5 x 1.5	2.9 x 1.5 x 1.0	2.9 x 1.3 x 1.0	2.9 x 1.3 x 1.0	2.7 x 1.6 x 1.2	2.6 x 1.6 x 1.1	2.0 x 1.25 x 0.95	2.0 x 1.25 x 0.95	2.0 x 1.25 x 0.95	1.7 x 1.25 x 0.95	1.7 x 1.25 x 0.7	1.2 x 0.8 x 0.6	1.0 x 0.6 x 0.48 (1.0 x 0.6 x 0.37)	1.1 x 1.0 x 0.37	1 x 0.6 x 0.47	1.1 x 1 x 0.47	1.4 x 1.2 x 0.47	
							P_{tot} (mW)	400	250	250	250	380	375	200	255	300	300	300	250	250	325	610	745	750
100	1	100	100	100	50				BAS19															
150	1	100	100	150	50		BAV102																	
									BAS20 (-Q)															
					150		BAV103				BAS21GW	BAS21H				BAS321 (-Q)	BAS321J	BAS521B	BAS21LL (LD)	BAV21QA				
									BAS21 (-Q)				BAS21W											
										BAV23														
														BAS21PG										
									BAV23A				BAS21AW											
									BAV23C											BAV23QA				
									BAV23S				BAS21SW											
									BAS21AVD															
									BAS21VD															
200	1	250	100	200	50																BAS21LS (-Q)	BAS21QB (-Q)	BAS21QC (-Q)	
																BAS21J	BAS521 (-Q)							
									BAS101															
									BAS101S															
										BAW101														
														BAW101S (-Q)								BAS30LS (-Q)		

Switching diodes

High performance switching diodes (175 °C capable & superior power dissipation)

V_R max (V)	V_F max (V)	@ I_F (mA)	I_R max (nA)	@ V_R (V)	t_{rr} max (ns)	Automotive-qualified	
						Package	SOT23
						Size (mm)	2.9 X 1.3 X 1.0
						P_{tot} (mW)	300
100	1	50	500	80	4		BAS16TH
200	1	100	100	200	50		BAS21TH

Controlled avalanche switching diodes

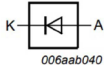
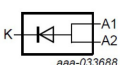
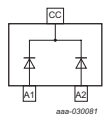
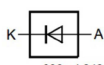
V_R max (V)	V_F max (V)	@ I_F (mA)	I_R max (nA) @ V_R max	I_{FSM} max (A)	I_{FRM} max (mA)	C_d max (pF)	t_{rr} max (ns)	Package	Automotive-qualified		
									SOT23	SOT143B	
									Size (mm)	2.9 x 1.3 x 1.0	2.9 x 1.3 x 1.0
									P_{tot} (mW)	250	250
60	1	200	100	9	600	2.5	6			BAS56	
90	1	200	100	10	600	35	50		BAS29		
									BAS31		
									BAS35		

Low leakage current switching diodes

V_R max (V)	V_F max (V)	@ I_F (mA)	I_R max (nA) @ V_R max	t_{rr} max (μ s)	Automotive-qualified														
					Package	SOD80C (MiniMelf)	SOD68 (DO-34)	SOT23	SOD123	SOD123F	SOT323 (SC-70)	SOD323 (SC-76)	SOD523 (SC-79)	DFN1010D-3 (SOT1215)	DFN1006-3 (SOT883)	DFN1006-2 (SOD882)	DFN1006BD-2 (SOD882BD)		
					Size (mm)	3.5 x 1.5 x 1.5	3.04 x 1.6 x 0.55	2.9 x 1.3 x 1.0	2.7 x 1.6 x 1.2	2.6 x 1.6 x 1.1	2.0 x 1.25 x 0.95	1.7 x 1.25 x 0.95	1.2 x 0.8 x 0.6	1.1 x 1.0 x 0.37	1.0 x 0.6 x 0.48	1.0 x 0.6 x 0.48	1.0 x 0.6 x 0.47		
					P_{tot} (mW)	400	300	250	380	375	250	250	250	305	250	250			
75	1	10	5	3					BAS-116GW	BAS116H		BAS416	BAS716			BAS116L	BAS116LS (-Q)		
								BAS116					BAS116QA						
								BAV199 (-Q)			BAV199W (-Q)								
								BAW156											
125	1	100	1	1.5 typ		BAS45AL	BAS45A												

Recovery rectifiers

Types in **bold** represent new products

V _r max (V)	V _r max (V)	I _F (A)	I _R max (μA)	V _R (V)	t _{rr} max (ns)	Package	Automotive-qualified				
							CFP2-HP (SOD323HP)	CFP3 (SOD123W)	CFP5 (SOD128)	CFP15B (SOT1289B)	
							Size (mm)	2.2 x 1.3 x 0.68	2.6 x 1.7 x 1.0	3.8 x 2.5 x 1.0	5.8 x 4.3 x 0.95
						P _{tot} (mW) @ 1cm ²	1200	1150	1200	2150	
200	1.02	1	0.075	200	25		PNE20010EXD (-Q)				
	0.93	1	0.2	200	25		PNE20010ER (-Q)				
	0.98	2	0.2	200	25		PNE20020ER (-Q)				
	0.95	2	1	200	25		PNE20020EP (-Q)				
	0.98	3	1	200	30		PNE20030EP (-Q)				
	0.93	4	1	200	30		PNE20040EP (-Q)				
	0.95	5	1	200	30		PNE20050EP (-Q)				
	0.93	4	1	200	30					PNE20040EPE (-Q)	
	0.94	6	1	200	30		PNE20060EPE (-Q)				
	0.95	8	1	200	30		PNE20080EPE (-Q)				
	0.96	10	1	200	30						PNE200100EPE (-Q)
	0.98	2x2	1	200	25		PNE20040CPE (-Q)				
	0.94	2x3	1	200	30		PNE20060CPE (-Q)				
	0.93	2x4	1	200	30		PNE20080CPE (-Q)				
0.95	2x5	1	200	30						PNE200100CPE (-Q)	
400	1.1	1	1	400	1800			PNS40010ER			
650	1.2	1	1	650	65		PNU65010ER (-Q)				
	1.2	1	1	650	65		PNU65010EP (-Q)				
	1.2	2	1	650	65		PNU65020EP (-Q)				
	1.2	3	1	650	70		PNU65030EP (-Q)				

Diodes

Nomenclature recovery rectifiers automotive grade types

PNE 200 10 E R

Recovery time indicator:

- PNE** = hyperfast recovery time
- PNU = ultrafast recovery time
- PNS = standard recovery time

Max. reverse voltage:

- 200 = 200 V
- 400 = 400 V
- 650 = 650 V

Cont. Forward current:

- 10 = 1.0 A
- 20 = 2.0 A
- 50 = 5.0 A
- 100 = 10.0 A

Package indicator:

- R** = CFP3 (SOD123W)
- P = CFP5 (SOD128)
- PE = CFP15B (SOT1289B)
- XD = CFP2-HP (SOD323HP)

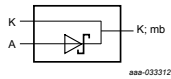
Configuration:

- E** = single
- C = dual common cathode

SiC Schottky diodes

SiC Schottky diodes

Types in **bold red** are in development, types in **bold** represent new products

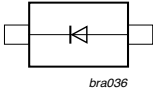


V_R max (V)	V_F @10A (V)	I_R max (μ A)	$(@) V_R$ (V)	Package	DPAK R2P (SOT8017)	D2PAK R2P (SOT8018)	TO-220-2 (SOT8021)	TO-247-2 (SOT8022)
				Size (mm)	6.1 x 6.6 x 2.3	11 x 10 x 4.3	10 x 15.6 x 4.5	15.9 x 20.9 x 5
650	1.5	120	650		PSC1065H	PSC1065J	PSC1065K	PSC1065L

SiC Schottky Diode

PSC 06 120 J -Q






- NEXPERIA Silicon Carbide
- Continuous forward current:
 - 06 = 6 A
 - 08 = 8 A
 - 10 = 10 A
 - 16 = 16 A
 - 20 = 20 A
- Max. reverse voltage:
 - 65 = 650 V
 - 120 = 1200 V
- Qualification scheme:
 - Q = Standard Automotive
- Package indicator:
 - H = DPAK R2P
 - J = D2PAK R2P
 - K = TO-220-2
 - L = TO-247-2

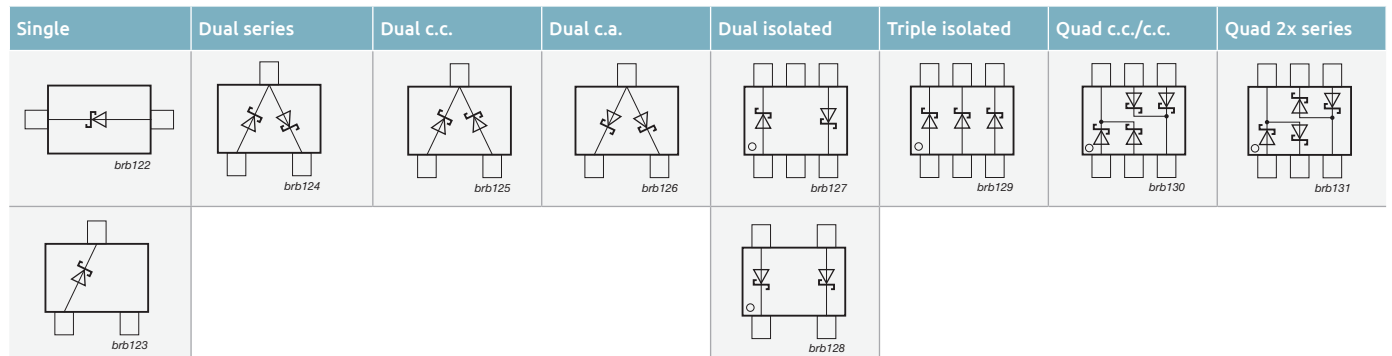
Power SiGe rectifiers in clip-bond packages

V_F max (V)	I_F max (A)	V_F max (mV) @ I_F max	I_R max (μ A) @ V_R max	Package 	Automotive-qualified	
					CFP5 (SOD128)	CFP3 (SOD123W)
						
					Size (mm)	
					3.8 x 2.5 x 1.0	2.6 x 1.7 x 1.0
					1200	1150
120	1	840	0.03	<i>bra036</i>		PMEG120G10ELR (-Q)
	2				PMEG120G20ELP (-Q)	
	3				PMEG120G30ELP (-Q)	
150	1	850	0.03			PMEG150G10ELR (-Q)
	2				PMEG150G20ELP (-Q)	
	3				PMEG150G30ELP (-Q)	
200	1	880	0.03			PMEG200G10ELR (-Q)
	2				PMEG200G20ELP (-Q)	
	3				PMEG200G30ELP (-Q)	




Schottky diodes and rectifiers








General purpose Schottky diodes <= 250 mA

I _F max (mA)	V _r max (V)	V _r max (mV)	@ I _F (mA)	I _R max (µA)	@ V _r (V)	Package	SOD80C (MiniMelf)	SOD68 (DO-34)	SOT23	SOT143B	SOD123	
												
							Size (mm)	3.5 x 1.5 x 1.5	3.04 x 1.6 x 0.55	2.9 x 1.3 x 1.0	2.9 x 1.3 x 1.0	2.7 x 1.6 x 1.2
							P _{tot} (mW)	300	500	250	250	357
70	70	750	10	0.1	50	Single			BAS70			
						Dual series			BAS70-04			
						Dual c.c.			BAS70-05			
						Dual c.a.			BAS70-06			
						Dual isolated				BAS70-07		
						Triple isolated						
120	40	370	1	0.5	30	Single						
		380	1	1	30	Single						
		500	10	1	30	Single			BAS40			
						Dual series			BAS40-04			
						Dual c.c.			BAS40-05			
						Dual c.a.			BAS40-06			
						Dual isolated				BAS40-07		
						Quad c.c./c.c.						
Quad 2x series												
200	30	300	10	30	10	Single						
		340	10	2	25	Single			BAT754			
						Dual series			BAT754S			
						Dual c.c.			BAT754C			
						Dual c.a.			BAT754A			
		Triple isolated										
		400	10	2	25	Single	BAS85	BAT85	BAT54 (-Q)			
		Dual series			BAT54S (-Q)							
		Dual c.c.			BAT54C (-Q)							
		Dual c.a.			BAT54A (-Q)							
	Dual isolated				BAT74							
	Triple isolated											
	480	200	50	30	Single							
	400	10	2	25	Quad c.c./c.c.							
	Quad 2x series											
	600	200	2	30	Single							
	500	200	30	10	Single							
	600	200	1	10	Single							
	800	100	2	25	Single							
	40	300	10	15	30	Single			BAT721			
Dual series								BAT721S				
Dual c.c.								BAT721C				
Dual c.a.								BAT721A				
360		10	0.5	25	Single							
420		30	0.5	25	Single							
Dual series												
650		200	10	40	Single							
420	30	0.5	25	Dual c.c.								
Dual c.a.												
50	450	10	5	40	Single	BAS86	BAT86					
250	100	850	250	4	75	Single				BAT46GW		
		1350	250	3	75	Single						








Schottky rectifiers - leadless DSN/DFN packages

I _F max (A)	V _R max (V)	V _F max (mV) @ I _F max	I _R max (mA) @ V _R max	Package	DSN0603-2 (SOD962)	DSN1006-2 (SOD993)	DSN1006U-2 (SOD995)	
								
				Size (mm)	0.6 x 0.3 x 0.3	1.0 x 0.6 x 0.28	1.0 x 0.6 x 0.28	
				P _{tot} (mW) @ 1 cm ²	525	1.000	1.190	
				Optimization				
0.1	30	840	0.0008	Low I _R				
0.2	20	420	0.045	Low V _F	PMEG2002AESF			
		490	0.0035	Low I _R	PMEG2002ESF			
	30	470	0.08	Low V _F	PMEG3002AESF			
		480	0.05	low V _F				
		520	0.015	Low I _R				
		535	0.009	Low I _R	PMEG3002ESF			
	40	525	0.08	Low V _F	PMEG4002AESF			
		600	0.0065	Low I _R	PMEG4002ESF			
		600	0.01	low I _R				
		600	0.1	low V _F				
0.5	20	390	0.2	low V _F				
		410	0.3	low V _F				
		440	1.5	low V _F				
		500	0.03	low I _R				
		550	0.045	Low V _F	PMEG2005AESF			
		620	0.0035	Low I _R	PMEG2005ESF			
	30	500	0.5	low V _F				
		630	0.08	Low V _F	PMEG3005AESF			
		670	0.015	Low I _R				
		720	0.009	Low I _R	PMEG3005ESF			
	40	590	0.01	low I _R				
		820	0.08	Low V _F	PMEG4005AESF			
		880	0.0065	Low I _R	PMEG4005ESF			
1	20	375	1.9	low V _F				
		415	0.6	low V _F				
		490	0.2	low V _F				
	30	480	1.25	Low V _F		PMEG3010AESB	PMEG3010AESA	
		565	0.045	Low I _R		PMEG3010ESB		
	40	505	0.115	Low V _F		PMEG4010AESB		
		600	0.02	low I _R				
		610	0.04	Low I _R		PMEG4010ESB		
	60	625	0.65	Low V _F		PMEG6010AESB		
		730	0.03	Low I _R		PMEG6010ESB		
1.5	20	420	0.9	low V _F				
	40	610	0.03	low I _R				
2	20	420	1.9	low V _F				
		450	0.9	low V _F				
	30	470	2.5	low V _F				
	40	535	0.1	low V _F				
		530	0.2	low V _F				
	60	575	0.25	low V _F				






Automotive-qualified							
DFN2020-3 (SOT1061)	DFN2020D-3 (SOT1061D)	DFN1608D-2 (SOD1608)	DFN1006-2 (SOD882)	DFN1006D-2 (SOD882D)	DFN1006BD-2 (SOD882BD)	DFN0603-2 (SOD972E)	
							
2.0 x 2.0 x 0.62	2.0 x 2.0 x 0.62	1.6 x 0.8 x 0.37	1.0 x 0.6 x 0.48	1.0 x 0.6 x 0.37	1.0 x 0.6 x 0.47	0.63 x 0.33 x 0.25	
960	960	780	565	660	640	570	
						PMEG3001EEF	
			PMEG3002AEL	PMEG3002AELD (-Q)		PMEG3002EEF	
			PMEG4002EL (-Q)	PMEG4002ELD			
			PMEG6002EL	PMEG6002ELD			
				PMEG2005BELD (-Q)			
		PMEG2005EPK					
			PMEG2005AEL	PMEG2005AELD			
			PMEG2005EL	PMEG2005ELD			
			PMEG3005EL	PMEG3005ELD	PMEG3005ELS (-Q)		
						PMEG3005EEF	
		PMEG4005EPK					
PMEG2010EPA	PMEG2010EPAS						
		PMEG2010EPK			PMEG2010BELD (-Q)		
		PMEG4010EPK					
		PMEG2015EPK					
		PMEG4015EPK					
PMEG2020EPA	PMEG2020EPAS						
		PMEG2020EPK					
PMEG3020EPA	PMEG3020EPAS						
PMEG4020EPA	PMEG4020EPAS						
		PMEG4020EPK					
PMEG6020EPA	PMEG6020EPAS						

Power Schottky rectifiers - clip-bond packages

					Automotive-qualified				
I _F max (A)	V _R max (V)	V _F max (mV) @ I _F max	I _R max (mA) @ V _R max	Package	CFP15 (SOT1289)	CFP15B (SOT1289B)	CFP5 (SOD128)	CFP3 (SOD123W)	CFP2-HP (SOD323HP)
									
Size (mm)					5.8 x 4.3 x 0.78	5.8 x 4.3 x 0.95	3.8 x 2.5 x 1.0	2.6 x 1.7 x 1.0	2.2 x 1.3 x 0.68
P _{tot} (mW) @ 1 cm ²					2150	2150	1200	1150	1200
Optimization									
1	20	340	1	Low V _F				PMEG2010ER (-Q)	
		450	0.05	Low I _R				PMEG2010BER (-Q)	
	30	360	1.5	Low V _F			PMEG3010EP (-Q)	PMEG3010ER (-Q)	
		450	0.05	Low I _R			PMEG3010BEP (-Q)	PMEG3010BER (-Q)	
	40	490	0.05	Low V _F			PMEG4010EP (-Q)	PMEG4010ER (-Q)	
		460	0.022	Low V _F			PMEG4010ETP (-Q)	PMEG4010ETR (-Q)	
	45	520	0.02	Low V _F , Low Q _{rr}				PMEG40T10ER (-Q) ¹⁾	
		520	0.02	Low V _F , Low Q _{rr}				PMEG40T10ER (-Q) ¹⁾	PMEG45T10EXD (-Q) ¹⁾
	60	530	0.06	Low V _F			PMEG6010EP (-Q)	PMEG6010ER (-Q)	
		530	0.06	Low V _F				PMEG6010ETR (-Q)	
		590	0.0008	Low I _R , Low Q _{rr}			PMEG60T10ELP (-Q) ¹⁾		
		600	0.00065	Low I _R , Low Q _{rr}				PMEG60T10ELR (-Q) ¹⁾	
		640	0.0004	Low I _R , Low Q _{rr}					PMEG60T10ELXD (-Q) ¹⁾
	100	660	0.0003	Low I _R				PMEG6010ELR (-Q)	
		750	0.0009	Low I _R , Low Q _{rr}				PMEG100T10ELR (-Q) ¹⁾	
770		0.00015	Low I _R				PMEG100T10ELR (-Q)		
795		0.0005	Low I _R , Low Q _{rr}					PMEG100T10ELXD (-Q) ¹⁾	
795		0.0005	Low I _R , Low Q _{rr}					PMEG100T10ELXD (-Q) ¹⁾	
2	30	360	3	Low V _F			PMEG3020EP (-Q)		
		420	1.5	Low V _F			PMEG3020CEP (-Q)	PMEG3020ER (-Q)	
		450	0.1	Low I _R			PMEG3020BEP (-Q)		
		520	0.05	Low I _R			PMEG3020DEP (-Q)	PMEG3020BER (-Q)	
	40	490	0.1	Low V _F			PMEG4020EP (-Q)	PMEG4020ER (-Q)	
		490	0.1	Low V _F			PMEG4020ETP (-Q)	PMEG4020ETR (-Q)	
	45	515	0.022	Low V _F , Low Q _{rr}			PMEG40T20EP (-Q) ¹⁾	PMEG40T20ER (-Q) ¹⁾	
		560	0.025	Low V _F , Low Q _{rr}					PMEG45T20EXD (-Q) ¹⁾
	60	530	0.2	Low V _F			PMEG6020EP (-Q)	PMEG6020ER (-Q)	
		530	0.2	Low V _F			PMEG6020ETP (-Q)	PMEG6020ETR (-Q)	
		620	0.0012	Low I _R , Low Q _{rr}			PMEG60T20ELP (-Q) ¹⁾	PMEG60T20ELR (-Q) ¹⁾	
		670	0.0007	Low I _R			PMEG60T20AELP (-Q)	PMEG60T20AELR (-Q)	
		700	0.00047	Low I _R , Low Q _{rr}					PMEG60T20ELXD (-Q) ¹⁾
	100	760	0.0003	Low I _R				PMEG6020ELR (-Q)	
		800	0.00125	Low I _R , Low Q _{rr}			PMEG100T20ELP (-Q) ¹⁾	PMEG100T20ELR (-Q) ¹⁾	
770		0.0003	Low I _R			PMEG100T20AELP (-Q)	PMEG100T20AELR (-Q)		
830		0.00015	Low I _R				PMEG100T20ELR (-Q)		
880		0.0006	Low I _R , Low Q _{rr}					PMEG100T20ELXD (-Q) ¹⁾	
3	30	360	5	Low V _F			PMEG3030EP (-Q)		
		450	0.15	Low I _R	PMEG030V030EPD	PMEG030V030EPE (-Q)	PMEG3030BEP (-Q)		
	40	490	0.12	Low V _F	PMEG040V030EPD	PMEG040V030EPE (-Q)			
		490	0.12	Low V _F			PMEG4030EP (-Q)		
	40	525	0.028	Low V _F , Low Q _{rr}			PMEG4030ETP (-Q)		
		540	0.1	Low I _R				PMEG40T30ER (-Q) ¹⁾	
	45	480	0.044	Low V _F , Low Q _{rr}	PMEG045T030EPD ¹⁾				
		540	0.1	Low I _R				PMEG4030ER (-Q)	
	50	530	0.1	Low V _F	PMEG050V030EPD	PMEG050V030EPE (-Q)			
		530	0.1	Low V _F				PMEG4030ETR (-Q)	
	60	475	0.4	Low V _F			PMEG6030EVP (-Q)		
		530	0.2	Low V _F	PMEG060V030EPD	PMEG060V030EPE (-Q)	PMEG6030EP (-Q)		
		530	0.2	Low V _F			PMEG6030ETP (-Q)		
		620	0.0018	Low I _R			PMEG60T030ELPE (-Q) ¹⁾	PMEG60T30ELP (-Q) ¹⁾	PMEG60T30ELR (-Q) ¹⁾
		670	0.001	Low I _R				PMEG6030ELP (-Q)	
100	800	0.00175	Low I _R , Low Q _{rr}			PMEG100T30ELP (-Q) ¹⁾	PMEG100T30ELR (-Q) ¹⁾		
	770	0.00045	Low I _R			PMEG100T30ELP (-Q) ¹⁾			
	710	0.0025	Low I _R , Low Q _{rr}			PMEG100T030ELPE (-Q) ¹⁾			
2x2	60	620	0.0012	Low I _R , Low Q _{rr}		PMEG060T040CLPE (-Q) ¹⁾			
4.5	60	530	0.4	Low V _F			PMEG6045ETP (-Q)		
5	30	360	8	Low V _F			PMEG3050EP (-Q)		
		450	0.25	Low I _R			PMEG3050BEP (-Q)		
		500	0.15	Low V _F	PMEG030V050EPD	PMEG030V050EPE (-Q)			
	40	490	0.3	Low V _F			PMEG4050EP (-Q)		
		490	0.3	Low V _F			PMEG4050ETP (-Q)		
		520	0.12	Low V _F	PMEG040V050EPD	PMEG040V050EPE (-Q)			
	45	525	0.041	Low V _F , Low Q _{rr}				PMEG40T50EP (-Q)1)	
		490	0.3	Low V _F	PMEG045V050EPD	PMEG045V050EPE (-Q)			
	60	525	0.044	Low V _F , Low Q _{rr}	PMEG045T050EPD ¹⁾				
		560	0.4	Low V _F	PMEG060V050EPD	PMEG060V050EPE (-Q)			
	100	690	0.0018	Low I _R , Low Q _{rr}			PMEG60T050ELPE (-Q) ¹⁾	PMEG60T50ELP (-Q) ¹⁾	
		895	0.00175	Low I _R , Low Q _{rr}				PMEG100T50ELP (-Q) ¹⁾	
		810	0.0025	Low I _R , Low Q _{rr}			PMEG100T050ELPE (-Q) ¹⁾		









¹⁾ Trench Schottky technology

Power Schottky rectifiers - clip-bond packages

I _F max (A)	V _R max (V)	V _F max (mV) @ I _F max	I _R max (mA) @ V _R max	Package	Automotive-qualified					
					CFP15 (SOT1289)	CFP15B (SOT1289B)	CFP5 (SOD128)	CFP3 (SOD123W)	CFP2-HP (SOD323HP)	
										
					Size (mm)	5.8 x 4.3 x 0.78	5.8 x 4.3 x 0.95	3.8 x 2.5 x 1.0	2.6 x 1.7 x 1.0	2.2 x 1.3 x 0.68
					P _{tot} (mW) @ 1 cm ²	2150	2150	1200	1150	1200
Optimization										
2x3	60	620	0.0018	Low I _R , Low Q _{rr}		PMEG060T060CLPE (-Q) ¹⁾				
6	100	840	0.00045	Low I _R	PMEG100V060ELPD	PMEG100V060EPE (-Q)				
2x4	60	660	0.0018	Low I _R , Low Q _{rr}		PMEG060T080CLPE (-Q) ¹⁾				
8	100	850	0.0005	Low I _R	PMEG100V080ELPD	PMEG100V080EPE (-Q)				
		810	0.004	Low I _R , Low Q _{rr}		PMEG100T080ELPE (-Q) ¹⁾				
2x5	60	690	0.0018	Low I _R , Low Q _{rr}		PMEG060T100CLPE (-Q) ¹⁾				
10	45	490	0.6	Low V _F	PMEG045V100EPD	PMEG045V100EPE (-Q)				
		540	0.5	Low V _F	PMEG45A10EPD	PMEG045V100EPE (-Q)				
		545	0.08	Low V _F , Low Q _{rr}		PMEG045T100EPE (-Q) ¹⁾				
	60	560	0.7	Low V _F	PMEG060V100EPD	PMEG060V100EPE (-Q)				
		850	0.0008	Low I _R	PMEG100V100ELPD	PMEG100V100EPE (-Q)				
	810	0.005	Low I _R , Low Q _{rr}		PMEG100T100ELPE (-Q) ¹⁾					
12	100	810	0.006	Low I _R , Low Q _{rr}		PMEG100T120ELPE ¹⁾				
15	45	490	1	Low V _F	PMEG045V150EPD					
		550	0.1	Low V _F , Low Q _{rr}	PMEG045T150EPD ¹⁾					
		580	0.1	Low V _F , Low Q _{rr}	PMEG45T15EPD ¹⁾					
	570	0.098	Low V _F , Low Q _{rr}	PMEG045T150EIPD ¹⁾						
	50	500	1	Low V _F	PMEG050V150EPD					
		550	0.1	Low V _F , Low Q _{rr}	PMEG050T150EPD ¹⁾					
570	0.2	Low V _F , Low Q _{rr}	PMEG050T150EIPD ¹⁾							
100	820	0.008	Low I _R , Low Q _{rr}		PMEG100T150ELPE ¹⁾					
20	100	830	0.01	Low I _R , Low Q _{rr}		PMEG100T200ELPE ¹⁾				









¹⁾Trench Schottky technology

Schottky rectifiers - leaded packages

















I _F max (A)	V _R max (V)	V _F max (mV) @ I _F max	I _R max (mA) @ V _R max	Package	Automotive-qualified								
					SOT457 (SC-74)	SOT23	SOD123	SOD123F	SOT323 (SC-70)	SOD323F (SC-90)	SOD323 (SC-76)	SOD523 (SC-79)	
													
					Size (mm)	2.9 x 1.5 x 1.0	2.9 x 1.3 x 1.0	2.7 x 1.6 x 1.2	2.6 x 1.6 x 1.1	2.0 x 1.25 x 0.95	1.7 x 1.25 x 0.7	1.7 x 1.25 x 0.95	1.2 x 0.8 x 0.6
					P _{tot} (mW) @ 1 cm ²	540	420	660	830	400	830	570	500
Optimization													
0.2	30	480	0.05	Low V _F						PMEG3002EJ (-Q)			
	40	600	0.01	Low I _R						PMEG4002EJ			
	60	600	0.1	Low V _F						PMEG6002EJ (-Q)	PMEG3010BEA (-Q)		
0.5	20	390	0.2	Low V _F		PMEG2005ET (-Q)	PMEG2005EGW (-Q)	PMEG2005EH (-Q)		PMEG2005EJ (-Q)			
		480	0.03	Low I _R									
	30	430	0.15	Low V _F		PMEG3005ET (-Q)	PMEG3005EGW (-Q)	PMEG3005EH (-Q)		PMEG3005EJ (-Q)	PMEG4010BEA (-Q)		
		500	0.5	Low V _F							PMEG4010CEA		
	40	470	0.1	Low V _F		PMEG4005ET (-Q)	PMEG4005EGW (-Q)	PMEG4005EH (-Q)		PMEG4005EJ (-Q)			
		550	1.1	Low V _F		BAT720 (-Q)			1PS705B20		PMEG2015EA		
640	0.008	Low I _R						PMEG4005CEJ					
0.75	40	740	0.008	Low I _R						PMEG1020EA			
1	20	430	0.2	Low V _F		PMEG2010AET		PMEG2010AEH (-Q)			PMEG2020AEA		
		500	0.2	Low V _F		PMEG2010ET (-Q)		PMEG2010EH		PMEG2010EJ (-Q)			
	550	0.07	Low I _R						PMEG2010AEJ				
	620	1.5	Low V _F								PMEG2010AEB (-Q)		

Schottky diodes and rectifiers

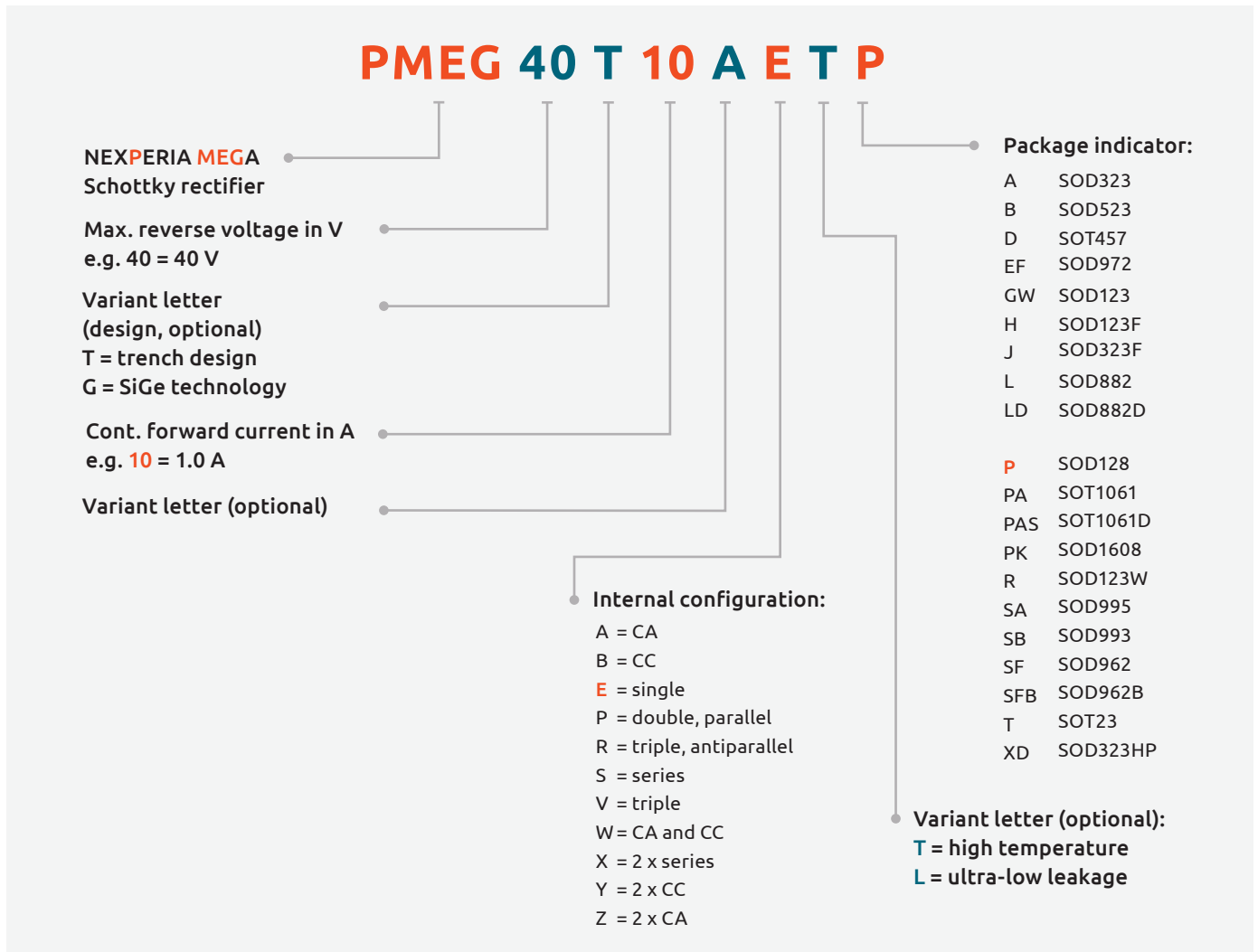
Schottky rectifiers - leaded packages

					Automotive-qualified							
I_F max (A)	V_R max (V)	V_F max (mV) @ I_F max	I_R max (mA) @ V_R max	Package	SOT457 (SC-74)	SOT23	SOD123	SOD123F	SOT323 (SC-70)	SOD323F (SC-90)	SOD323 (SC-76)	SOD523 (SC-79)
												
				Size (mm)	2.9 x 1.5 x 1.0	2.9 x 1.3 x 1.0	2.7 x 1.6 x 1.2	2.6 x 1.6 x 1.1	2.0 x 1.25 x 0.95	1.7 x 1.25 x 0.7	1.7 x 1.25 x 0.95	1.2 x 0.8 x 0.6
				P_{tot} (mW) @ 1 cm ²	540	420	660	830	400	830	570	500
Optimization												
1	30	450	1	Low V_F	1PS74SB23							
		520	0.1	Low I_R				PMEG3010CEH (-Q)		PMEG3010CEJ (-Q)		
		560	0.15	Low V_F		PMEG3010ET	PMEG3010EGW (-Q)	PMEG3010EH			PMEG3010BEA (-Q)	
		680	0.5	Low V_F								PMEG3010EB (-Q)
	40	570	0.05	Low I_R		PMEG4010CEGW (-Q)	PMEG4010CEH (-Q)			PMEG4010CEJ (-Q)		
		640	0.05	Low V_F		PMEG4010ET (-Q)	PMEG4010EGW (-Q)	PMEG4010EH (-Q)		PMEG4010EJ (-Q)	PMEG4010BEA (-Q)	
840		0.008	Low I_R							PMEG4010CEA		
60	660	0.05	Low I_R		PMEG6010CEGW (-Q)	PMEG6010CEH (-Q)			PMEG6010CEJ (-Q)			
1.5	20	660	0.2	Low I_R				PMEG2015EH		PMEG2015EJ	PMEG2015EA	
	30	500	1	Low V_F				PMEG3015EH (-Q)		PMEG3015EJ (-Q)		
2	10	460	3	Low V_F				PMEG1020EH (-Q)		PMEG1020EJ	PMEG1020EA	
	20	525	0.2	Low V_F				PMEG2020EH		PMEG2020EJ (-Q)	PMEG2020AEA	
	30	620	1	Low V_F		PMEG3020EGW (-Q)	PMEG3020EH (-Q)		PMEG3020EJ (-Q)			
3	10	530	3	Low V_F				PMEG1030EH		PMEG1030EJ (-Q)		

Dual Schottky rectifiers - leaded/leadless DFN packages

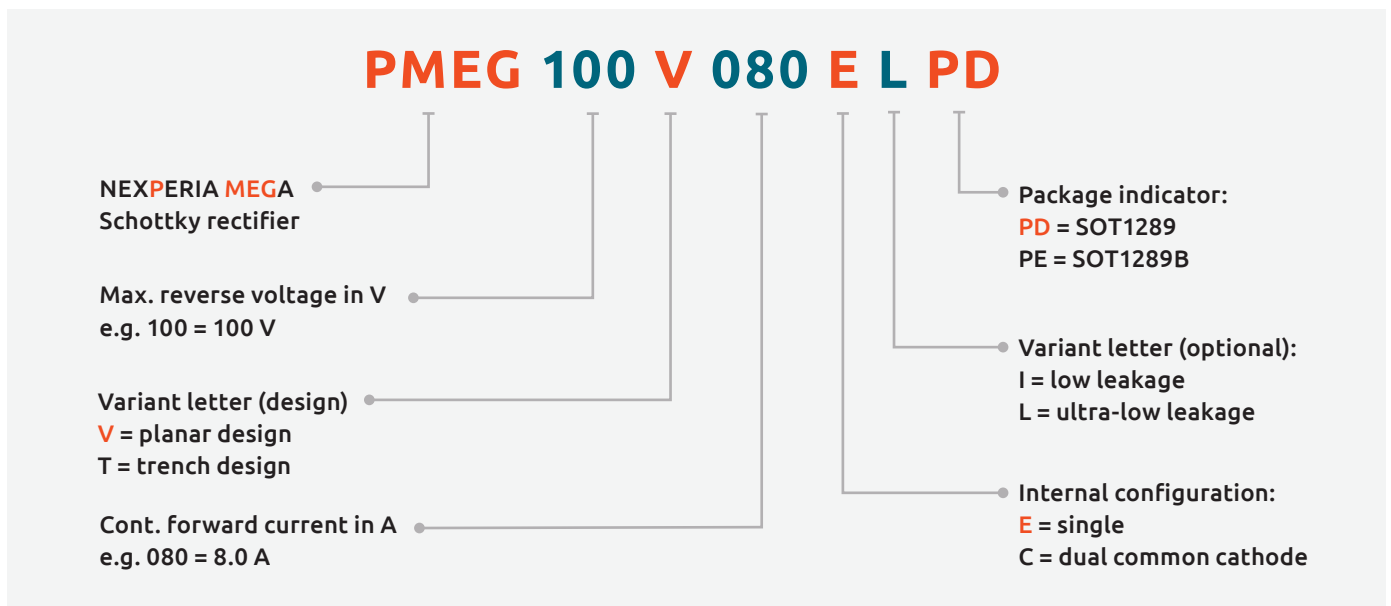
					Automotive-qualified				
I_F max (A)	V_R max (V)	V_F max (mV) @ I_F max	I_R max (mA) @ V_R max	Optimization	Package	SOT223 (SC-73)	SOT23	DFN2020-3 (SOT1061)	DFN2020D-3 (SOT1061D)
									
					Size (mm)	6.5 x 3.5 x 1.65	2.9 x 1.3 x 1.0	2.0 x 2.0 x 0.62	2.0 x 2.0 x 0.63
P_{tot} (mW) @ 1 cm ²						1500	400	1000	1000
0.5	20	390	0.2	Low V_F					
	30	430	0.15	Low V_F			PMEG2005CT (-Q)		
	40	470	0.1	Low V_F			PMEG3005CT		
1.0	25	450	1.0	Low V_F		BAT120S			
				Low V_F		BAT120C			
				Low V_F		BAT120A			
	40	500	0.05	Low V_F				PMEG4010CPA	PMEG4010CPAS
				Low V_F				PMEG6010CPA	PMEG6010CPAS
				Low V_F		BAT160S (-Q)			
60	650	0.35	Low V_F						
			Low V_F		BAT160C				
			Low V_F		BAT160A				
2.0	20	420	1.0	Low V_F				PMEG2020CPA	PMEG2020CPAS
	30	440	2.0	Low V_F				PMEG3020CPA	PMEG3020CPAS

Nomenclature of Schottky and SiGe rectifiers



Diodes

Nomenclature of Schottky rectifiers in CFP15 and CFP15B power packages





ESD protection, TVS, filtering and signal conditioning

3

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










Classic In-Vehicle Networks

Types in **bold** represent new products

Main Application	number of protected lines, bidirectional	V_{RWM} (V)	ESD rating max (kV) [1]	C_{line} typ (pF)	C_{line} max (pF)	I_{PPM} 8/20 μ s (A)	V_{CL} 8/20 μ s @ I_{PPM} (V)	Configuration	Type	Package	Size(mm)			
LIN	1	24	30	14	17	3.5	42		PESD1IVN24A-Q	SOD323 (SC-76)	1.7 x 1.25 x 0.95			
		27	30	14	17	3	45		PESD1IVN27A-Q					
		24	30	14	17	3.5	42		PESD1IVN24L-Q	DFN1006-2 (SOD882)	1.0 x 0.6 x 0.47			
		27	30	14	17	3	45		PESD1IVN27L-Q					
		24	30	14	17	3.5	42		PESD1IVN24LS-Q	DFN1006BD-2 (SOD882BD)	1.0 x 0.6 x 0.47			
		27	30	14	17	3	45		PESD1IVN27LS-Q					
CAN FlexRay		24	30	14	17	3.5	42		PESD2IVN24T-Q	SOT23	2.9 x 1.3 x 1.0			
		27	30	14	17	3	45		PESD2IVN27-T					
		24	30	14	17	3.5	42		PESD2IVN24-U	SOT323	2.0 x 1.25 x 0.95			
		27	30	14	17	3	45		PESD2IVN27-U					
CAN-FD CAN FlexRay	2	24	15	3.2	3.5	1.9	43		PESD2CANFD24U-T	SOT23	2.9 x 1.3 x 1.0			
			23	5.2	6	2.6	42		PESD2CANFD24VT-Q					
			30	9	10	4.0	41		PESD2CANFD24LT-Q					
		27	15	3.6	4	1.8	45		PESD2CANFD27U-T					
			20	5.2	6	2.5	44		PESD2CANFD27V-T					
			30	9	10	3.9	42		PESD2CANFD27L-T					
		36	15	3.6	4	2	45		PESD2CANFD36UT-Q					
			23	5.2	6	2	45		PESD2CANFD36VT-Q					
			30	9	10	2	45		PESD2CANFD36LT-Q					
		24	15	3.2	3.5	1.9	43		PESD2CANFD24U-U			SOT323	2.0 x 1.25 x 0.95	
			23	5.2	6	2.6	42		PESD2CANFD24V-U					
			30	9	10	4.0	41		PESD2CANFD24LU-Q					
		27	15	3.6	4	1.8	45		PESD2CANFD27U-U					
			20	5.2	6	2.5	44		PESD2CANFD27V-U					
			30	9	10	4.0	41		PESD2CANFD27L-U					
		36	15	3.6	4	2	45		PESD2CANFD36UU-Q					
			23	5.2	6	2	45		PESD2CANFD36VU-Q					
			30	9	10	2	45		PESD2CANFD36LU-Q					
		48	30	7.1	8.6	3.5	67		PESD2IVN48T-Q	SOT23				2.9 x 1.3 x 1.0
		24	15	3.2	3.5	1.9	43			PESD2CANFD24U-QB	DFN1110D-3 (SOT8015)			1.1 x 1.0 x 0.48
			23	5.2	6	2.6	42			PESD2CANFD24VQB-Q				
			30	9	10	4.0	41			PESD2CANFD24LQB-Q				
		27	15	3.6	4	1.8	45			PESD2CANFD27UQB-Q				
			20	5.2	6	2.5	44			PESD2CANFD27VQB-Q				
24	15	3.2	3.5	1.9	43	PESD2CANFD24U-QC	DFN1412D-3 (SOT8009)	1.4 x 1.2 x 0.48						
	23	5.2	6	2.6	42	PESD2CANFD24VQC-Q								
27	15	3.6	4	1.8	45	PESD2CANFD27U-QC								
	20	5.2	6	2.5	44	PESD2CANFD27V-QC								

Automotive Ethernet




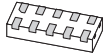

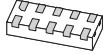

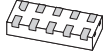

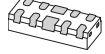

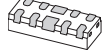

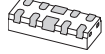




Types in **bold** represent new products

Main Application	Number of protected lines	V _{RWMX} (V)	V _{trigger} min(V)	ESD rating max (kV) [1]	C _{line} typ (pF)	C _{line} max (pF)	I _{PPM} max (µA)	Configuration	Type	Package	Size (mm)				
100BASE-T1 1000BASE-T1	1	24	100	30	1.5	1.8	2.3		PESD1ETH1GLS-Q	DFN1006BD-2 (SOD882BD) 	1.0 x 0.6 x 0.48				
					0.9	1.2	2.3		PESD1ETH1GXLS-Q						
	100BASE-T1				2	-	-	-	1.1	1.3	2.3		PESD2ETH1G-T	SOT23 	2.9 x 1.3 x 1.0
													PESD2ETH1GXT-Q		
10/100/1000 Mbit/s Ethernet at the PHY	2	5	-	8	-	-	-		PESD2ETH-X	SOT143B 	2.9 x 1.3 x 1.0				
				PESD2ETH-AX											
				12					1.8	-	-		PESD2ETH-D	SOT457 	.9 x 1.5 x 1.0
				8					1.3	1.5	-		PESD2ETH-AD		
	1	5.5	-	-	10	0.4	0.55	2.5		PESD5V0F1BL	DFN1006-2 (SOD882) 	1.0 x 0.6 x 0.48			
					PESD5V0F1BLD					DFN1006D-2 (SOD882D) 			1.0 x 0.6 x 0.37		
					10					0.4	0.55	2.5			
					10					0.4	0.55	2.5			

ESD protection, TVS, filtering and signal conditioning


Infotainment/SerDes

Types in **bold** represent new products

Main Application	Number of protected lines	V _{RWM} (V)	ESD rating max (kV) [1]	C _{line} typ (pF)	C _{line} max (pF)	I _{PPM} 8/20µs (A)	V _{CL} 8/20µs typ (V)	Configuration	Type	Package	Size (mm)	
USBx HDMI LVDS SerDes GSML FPD Link Mgbt Ethernet	2	3.3	18	0.83	1	8	2.6 V @ 8 A		PESD2USB3UV-T		2.9 x 1.3 x 1.0	
		3.3	8	0.56	0.7	4	3.3 V @ 8 A		PESD2USB3UX-T			
		5	22	0.76	0.9	10	2.4 V @ 8 A		PESD2USB5UV-T			
		5	8	0.47	0.6	4	3.3 V @ 8 A		PESD2USB5UX-T			
	4	3.3	15	0.29	0.34	7	3 V @ 5 A		PESD4USB3UTBR-Q		2.5 x 1.0 x 0.5	
			5	15	0.29	0.34	7		3 V @ 5 A			PESD4USB5UTBR-Q
		3.3	15	0.17	0.23	7	5 V @ 5 A		PESD4USB3BTBR-Q			
			5	15	0.17	0.23	7		5 V @ 5 A			PESD4USB5BTBR-Q
		3.3	15	0.29	0.34	7	3 V @ 5 A		PESD4USB3U-TBS			
			5	15	0.29	0.34	7		3 V @ 5 A			PESD4USB5U-TBS
		3.3	15	0.17	0.23	7	5 V @ 5 A		PESD4USB3B-TBS			
			5	15	0.17	0.23	7		5 V @ 5 A			PESD4USB5B-TBS
		3.3	15	0.29	0.34	7	3 V @ 5 A		PESD4USB3U-TTS			
			5	15	0.29	0.34	7		3 V @ 5 A			PESD4USB5U-TTS
		3.3	15	0.17	0.23	7	5 V @ 5 A		PESD4USB3B-TTS			
			5	15	0.17	0.23	7		5 V @ 5 A			PESD4USB5B-TTS
		5.0	15	15	0.6	6.5	3.5V@8A TLP		PESD5V0C1ULS-Q			1.0 x 0.6 x 0.47
				15	0.3	6.5	5.4V@8A TLP		PESD5V0C1BLS-Q			
			5.5	15	0.6	6.5	3.5V@8A TLP		PESD5V5C1UL-Q			
				15	0.3	6.5	5.4V@8A TLP		PESD5V5C1BL-Q			
5.0	15		0.5	0.6	5	3.4@6.5A			PESD5V0C2UM-Q			

Infotainment/SerDes

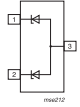
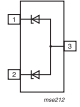
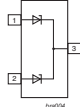
Types in **bold** represent new products

Main Application	Number of protected lines	V_{RWM} (V)	ESD rating max (kV) [1]	C_{line} typ (pF)	C_{line} max (pF)	I_{PPM} 8/20 μ s (A)	V_{CL} 8/20 μ s typ (V)	Configuration	Type	Package	Size (mm)
Audio Interface Charger Port Antenna (NFC, WiFi) LVDS	1	4.5	30	65	78	34	13.2		PTVS4V5D1BL	DFN1006-2 (SOD882)	1.0 x 0.6 x 0.48
		5.5	30	70	84	35	12.2		PTVS5V5D1BL		
		18	10	0.35	0.5	1	17		PESD18VF1BL-Q		
		24	10	0.3	0.45	1	17		PESD24VF1BL-Q		
		30	10	0.27	0.4	1	17		PESD30VF1BL-Q		
		18	10	0.31	0.45	1	17		PESD18VF1BLS-Q	DFN1006BD-2 (SOD882BD)	1.0 x 0.6 x 0.47
		24	10	0.28	0.4	1	17		PESD24VF1BLS-Q		
		30	10	0.28	0.4	1	17		PESD30VF1BLS-Q		
		32	10	0.28	0.4	1	17		PESD32VF1BLS-Q		
		5	30	35	45	12	14		PESD5V0S1BLD-Q		
		5	30	11	13	4.8	12.5		PESD5V0V1BLD-Q		
		5.5	10	0.4	0.55	2.5	15		PESD5V0F1BLD-Q		
			10	0.4	0.55	2.5	15		PESD5V0F1BRDL-Q		

ESD protection, TVS, filtering and signal conditioning

[1] According to IEC 61000-4-2

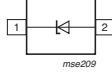
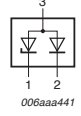
TVS diodes, 24 W/40 W

Power (W) (10 / 1000 μ s waveform) [1]	V_{RWM} (V)	V_{min} (V) @ I	V_{typ} (V) @ I	V_{BR} max (V) @ I_R	I_R (mA)	ESD rating max (kV)	C typ (pF)	V_{CL} max (V) @ I_{PP} [1]	I_{PP} (A) [1]	I_{RM} max (μ A) @ V_{RWM}	Configuration	Type	Package	Size (mm)						
24	3	5.32	5.6	5.88	20	30	210	8	3	5		MMBZ5V6AL	SOT23	2.9 x 1.3 x 1.0						
		5.89	6.2	6.51	1	30	175	8.7	2.76	0.2		MMBZ6V2AL								
	4.5	6.48	6.8	7.14	1	30	150	9.6	2.5	0.3		MMBZ6V8AL								
	6	8.65	9.1	9.56	1	30	155	14	1.7	0.1		MMBZ9V1AL								
	6.5	9.5	10	10.5	1	30	130	14.2	1.7	0.02		MMBZ10VAL								
40	8.5	11.4	12	12.6	1	30	110	17	2.35	0.005					MMBZ12VAL	SOT23	2.9 x 1.3 x 1.0			
	12	14.25	15	15.75	1	30	85	21	1.9	0.005					MMBZ15VAL					
	13	15.2	16	16.8	1	30	76	23	1.9	0.005					MMBZ16VAL					
	13	15.68	16	16.32	1	30	76	23	1.9	0.005					MMBZ16VTAL					
	14.5	17.1	18	18.9	1	30	70	25	1.6	0.005					MMBZ18VAL					
	17	19	20	21	1	30	65	28	1.4	0.005					MMBZ20VAL					
	22	25.65	27	28.35	1	30	48	40	1	0.005					MMBZ27VAL					
	26	31.35	33	34.65	1	30	45	46	0.87	0.005					MMBZ33VAL					
	8.5	11.4	12	12.6	1	30	110	17	2.35	0.005								MMBZ12VDL	SOT23	2.9 x 1.3 x 1.0
	12.8	14.3	15	15.8	1	30	85	21.2	1.9	0.005								MMBZ15VDL		
	14.5	17.1	18	18.9	1	30	70	25	1.6	0.005	MMBZ18VCL									
	17	19	20	21	1	30	65	28	1.4	0.005	MMBZ20VCL									
	22	25.65	27	28.35	1	30	48	38	1	0.005	MMBZ27VCL									
	26	31.35	33	34.65	1	30	45	46	0.87	0.005	MMBZ33VCL									

[1] 10/1000 μ s according to IEC 61643-3:21

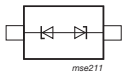















Low capacitance ESD protection for high-speed interfaces

Types in **bold red** are in development, types in **bold** represent new products

Unid Rectional	Bid Rectional	V _{rev} (V)	C _{line typ} (pF)	ESD rating max (kV) [1]	Configuration	Type	Package	Size (mm)		
1	0	5	0.45	20		PESD5V0C1USF	DSN0603-2 (SOD962)	0.6 x 0.3 x 0.3		
		6.5	0.45	20		PESD6V5C1USF				
		5	0.6	10		PESD5V0F1USF				
		5.5	0.5	18		PESD5V5C1UBSF				
		15	1	30		PESD15VW1UCSF				
		15	0.5	15		PESD5V5C1UL	DFN1006D-2 (SOD882D)	1.0 x 0.6 x 0.37		
		5	0.95	8		PESD5V0X1ULD				
			1.55	15		PESD5V0X1UALD				
		5	0.95	8		PESD5V0X1UB	SOD523 (SC-79)	1.2 x 0.8 x 0.6		
			1.55	15					PESD5V0X1UAB	
		1	0	3.3	0.6	30		PESD3V3U1UT	SOT23	2.9 x 1.3 x 1.0
				3.3	1	18		PESD3V3X2UT		
				3.3	0.8	8		PESD3V3F2UT		
				5	0.9	22		PESD5V0X2UT		
				5	0.6	8		PESD5V0F2UT		
				5	0.6	30		PESD5V0U1UT		
				12	0.6	30		PESD12VU1UT		
				15	0.6	30		PESD15VU1UT		
				24	0.6	23		PESD24VU1UT		
				0	1	5		0.17		
2	0.7	20	PESD2V0Y1BXM			SOD962C	0.6 x 0.3 x 0.18			
1	0.16	14	PESD1V0Y1BBSF			DSN0603-2 (SOD962)	0.6 x 0.3 x 0.3			
1.2	0.26	15	PESD1V2Y1BSF							
2.0	0.69	20	PESD2V0Y1BSF							
2.5	0.25	15	PESD2V5Y1BSF							
2.5	2	25	PESD2V5X1BSF							
2.8	0.1	10	PESD2V8R1BSF							
1	0.16	14	PESD2V8Y1BSF							
3.3	0.24	15	PESD3V3Y1BSF							
	0.2	20	PESD3V3C1BSF							
	0.28	20	PESD3V3Z1BSF							
	0.45	30	PESD3V3Z1BCSF							
	0.55	30	PESD3V3W1BCSF							
3.3	0.78	20	PESD3V3F1BSF							
	0.24	15	PESD4V0Y1BSF							
	0.7	30	PESD4V0Y1BBSF							
	0.16	14	PESD4V0Y1BCSF							
	0.28	20	PESD4V0Z1BSF							
	0.37	13	PESD4V0Y1BHBSF							
	0.45	30	PESD4V0Z1BCSF							
	0.55	30	PESD4V0W1BCSF							
5	0.09	8	PESD5V0R1BCSF							
5	0.1	12	PESD5V0R1BDSF							
	0.1	10	PESD5V0R1BSF							
	0.15	15	PESD5V0H1BSF							
5	0.2	20	PESD5V0C1BSF							
	0.27	18	PESD5V5C1BBSF							
	0.1	10	PESD7V0R1BSF							
7	0.15	15	PESD7V0H1BSF							
	0.2	20	PESD7V0C1BSF							

Low capacitance ESD protection for high-speed interfaces

Types in **bold red** are in development, types in **bold** represent new products

Unid/Rectional	Bid/Rectional	V _{RWM} (V)	C _{line} Typ (pF)	ESD rating max (kV) [1]	Configuration	Type	Package	Size (mm)				
0	1	5.5	0.25	10		PESD5V0F1BSF	 DSN0603-2 (SOD962)	0.6 x 0.3 x 0.3				
		3.3	-	20		PESD5V0F1BRSF						
		5.0	-			PESD3V3X1BCSF						
		9	0.2	18		PESD5V0X1BCSF						
		9	0.32	30		PESD9V0C1BSF						
		9	0.49	30		PESD9V0Z1BDSF						
		12	0.37	13		PESD9V0W1BDSF						
		12	0.45	30		PESD12VY1BSF						
		15	0.18	10		PESD12VW1BCSF						
		15	0.45	30		PESD15VY1BSF						
		15	0.5	30		PESD15VW1BCSF						
		18	0.23	10		PESD15VW1ACSF						
		24	0.18	10		PESD18VF1BBSF						
		24	0.23	10		PESD24VY1BSF						
		30	0.24	10		PESD24VF1BBSF						
						PESD30VF1BSF						
				18		0.15			10	PESD18VY1BBIF	 DFN1006D-2 (SOD962D)	
				5.5		0.24			15	PESD5V5C1BL	 DFN1006D-2 (SOD882D)	1.0 x 0.6 x 0.37
				5		0.4	10	PESD5V0F1BLD				
				3.3		1.3	9	PESD5V0F1BRLD	 DFN1006-2 (SOD882)	1.0 x 0.6 x 0.48		
				5.5		0.4	10	PESD3V3X1BL				
				5		0.49	8	PESD5V0F1BL				
						0.85	15	PESD5V0X1BCL				
						0.9	9	PESD5V0X1BCAL				
				18		0.31	10	PESD5V0X1BL				
				24		0.28	10	PESD18VF1BBL				
				30		0.27	10	PESD24VF1BBL				
								PESD30VF1BBL				
2	1	4	0.8	20		PESD4V0X2UM	 DFN1006-3 (SOT883-3)	1.0 x 0.6 x 0.46				
			0.5	15		PESD5V0C2UM	 DFN1006B-3 (SOT883B)	1.0 x 0.6 x 0.37				
			0.5	10		PESD5V0X2UMB	 DFN1006-3 (SOT883)	1.0 x 0.6 x 0.48				
						PESD5V0X2UM	 DFN1006B-3 (SOT883B)	1.0 x 0.6 x 0.37				
			0.8	15		PESD5V0X2UAMB	 DFN1006-3 (SOT883)	1.0 x 0.6 x 0.48				
			0.9	9		PESD5V0X2UAM	 SOT23	2.9 x 1.3 x 1.0				
						PESD5V0X1BT	 SOT323	2.0 x 1.25 x 0.95				
		0	0	80		0.6	30		NUP1301U	 SOT23	2.9 x 1.3 x 1.0	
									NUP1301	 SOT1215	1.0 x 1.0 x 0.4	
									NUP1301QA			

ESD protection, TVS, filtering and signal conditioning

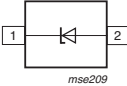







Low capacitance ESD protection for high-speed interfaces

Types in **bold** represent new products

Unid Rectional	Bid Rectional	V_{RWM} (V)	C_{line} typ (pF)	ESD rating max (kV) [1]	Configuration	Type	Package	Size (mm)		
0	2	5	0.21	20		PESD5V0C2BDF	DFN0603-3 (SOT8013) 	0.62 x 0.32 x 0.25		
0	2	4	0.26	20		PUSB3BB2DF				
0	2	4	0.31	25		PESD4V0Z2BCDF				
3	0	5.5	1	8		PRTR5V0U2X	SOT143B 	2.9 x 1.3 x 1.0		
			1.8	12		PRTR5V0U2AX				
			1	8		PRTR5V0U2F	DFN1410-6 (SOT886) 	1.45 x 1.0 x 0.48		
4	0	3.3	0.75	25		PESD3V3X4UHC	DFN1308-6 (SOT8006) 	1.3 x 0.8 x 0.4		
						IP4220CZ6	SOT457 (SC-74) 	2.9 x 1.5 x 1.0		
		1	8	PRTR5V0U4D		2.9 x 1.5 x 1.0				
		0.6	8	IP4283CZ10-TBR			DFN2510A-10 (SOT1176) 	2.5 x 1.0 x 0.48		
		4	0	3.3	0.29	15		PUSB3FR4	DFN2510A-10 (SOT1176-1) 	2.5 x 1 x 0.25
0.3	PUSB3FS4									
0.17	PUSB3AB4									
0.17	PUSB3BB4									
0.22	PUSB3CB4									
0.29	PHDMI2FR4									
5	0.3			PHDMI2FS4						
	0.17			PHDMI2AB4						
	0.17			PHDMI2BB4						
	0.22			PHDMI2CB4						
	3.3			0.35	PUSB3FR6		XSON7 (SOT1358-1) 	2.1 x 1.1 x 0.5		
				0.15	PUSB3AB6					

General purpose ESD protection devices

Types in **bold** represent new products

Number of protected lines		V _{RWM} (V)	C _{line typ} (pF)	C _{line max} (pF)	I _{PPM} (A) @ 20µs	ESD rating max (kV) [1]	I _R max (µA) @ V _{RWM}	Configuration	Type	Package	Size (mm)																												
Unid/Rectional	Bid/Rectional																																						
1	0	5	35	42	3.5	30	0.1		PESD5V0S1USF	DSN0603-2 (SOD962) 	0.6 x 0.3 x 0.3																												
		5.5	12	15.4	1.2	30	0.1		PESD5V0L1USF																														
		3.3	2.6	3.1	-	9	0.1 (@ 3 V)		PESD3V3U1UL	PESD3V3L1UL	PESD3V3S1UL	PESD5V0U1UL	PESD5V0L1UL	PESD5V0S1UL	DFN1006-2 (SOD882) 	1.0 x 0.6 x 0.5																							
			34	40	4.5	30	0.3																																
			207	300	15	30	2																																
		5	2	2.6	-	9	0.1		PESD5V0U1UL	PESD5V0L1UL	PESD5V0S1UL	PESD5V0U1UL	PESD5V0L1UL	PESD5V0S1UL	DFN1006-2 (SOD882) 	1.0 x 0.6 x 0.5																							
			25	30	3.5	26	0.1																																
		5	152	200	15	30	1		PESD5V0S1UL	DFN1006-2 (SOD882) 	PESD5V0S1UL	PESD5V0U1UL	PESD5V0L1UL	PESD5V0S1UL	1.0 x 0.6 x 0.5																								
		6	82	105	10	30	0.3		PESD6V3S1UL																														
		8	70	90	9	30	0.5		PESD8V0S1UL																														
		12	38	75	5	30	0.05		PESD12VS1UL																														
		15	32	70	5	30	0.05		PESD15VS1UL																														
		24	23	50	3	23	0.05		PESD24VS1UL																														
		36	18	2.5	2.5	30	0.01		PESD36VS1UL																														
		5	25	30	3.5	26	0.1		PESD5V0L1ULD							DFN1006D-2 (SOD882D) 	PESD5V0S1ULD	PESD8V0S1ULD	PESD12VS1ULD	PESD15VS1ULD	PESD24VS1ULD	1.0 x 0.6 x 0.4																	
			152	200	15	30	1																																
		8	70	90	13	30	0.5		PESD8V0S1ULD																														
		12	38	75	5	30	0.05		PESD12VS1ULD																														
		15	32	70	5	30	0.05		PESD15VS1ULD																														
		24	23	50	3	23	0.05		PESD24VS1ULD																														
		3.3	207	300	15	30	2		PESD3V3S1ULS														DFN1006BD-2 (SOD882BD) 	PESD5V0S1ULS	PESD8V0S1ULS	PESD12VS1ULS	PESD15VS1ULS	PESD24VS1ULS	1.0 x 0.6 x 0.48										
		5	152	200	15	30	1																																
		8	70	90	13	30	0.5		PESD8V0S1ULS																														
		12	38	75	5	30	0.05		PESD12VS1ULS																														
		15	32	70	5	30	0.05		PESD15VS1ULS																														
		24	23	50	3	23	0.05		PESD24VS1ULS																														
		36	18	2.5	2.5	30	0.01		PESD36VS1ULS																														
		2.5	229	300	20	30	6		PESD5Z2.5	SOD523 (SC-79) 	PESD3V3U1UB	PESD3V3L1UB	PESD5Z3.3	PESD3V3S1UB	PESD5V0U1UB															PESD5V0L1UB	PESD5Z5.0	PESD5V0S1UB	PESD5Z6.0	PESD5Z7.0	PESD5Z12	PESD12VS1UB	PESD15VS1UB	PESD24VS1UB	1.2 x 0.8 x 0.6
		3.3	2.6	3.1	-	9	0.1 (@ 3 V)																																
			34	40	4.5	30	0.3																																
			172	200	20	30	0.05																																
			207	300	18	30	2																																
		5	2	2.6	-	9	0.1																																
			25	30	3.5	26	0.1																																
			89	150	10	30	0.05																																
			152	200	15	30	1																																
		6	78	150	10	30	0.01																																
		7	69	150	10	30	0.01																																
		12	35	75	6	30	0.01																																
			38	75	5	30	0.05																																
		15	32	70	5	30	0.05																																
		24	23	50	3	23	0.05																																

ESD protection, TVS, filtering and signal conditioning

General purpose ESD protection devices

Types in **bold** represent new products

Number of protected lines		V _{RWM} (V)	C _{line typ} (pF)	C _{line max} (pF)	I _{PPM} (A) 8/20µs	ESD rating max (kV) [1]	I _R max (µA) @ V _{RWM}	Configuration	Type	Package	Size (mm)				
Unid/Rectional	Bid/Rectional														
1	0	3.3	2.6	3.1	-	9	0.1 (@ 3 V)		PESD3V3U1UA	 SOD323 (SC-76)	1.7 x 1.25 x 0.95				
		5	2	2.6	-	9	0.1		PESD5V0U1UA						
			25	30	3.5	26	0.1		PESD5V0L1UA						
		12	480	530	47	30	4		PESD5V0S1UA						
			160	180	22.5	30	0.1		PESD12VS1UA						
		24	23	50	3	23	0.05		PESD24VS1UA						
		5	480	530	47	30	4		PESD5V0S1UJ			 SOD323F (SC-90)	1.7 x 1.25 x 0.7		
		12	160	180	22.5	30	0.1		PESD12VS1UJ						
		36	18	30	2.5	30	0.01		PESD36VS1UJ						
			5.5	8.6	10.3	8	25		0.1					PESD5V5V1BCSN	 SOD992B
0	1	3.3	5.5	6	5.4	20	0.1		PESD3V3U1BCSF	 DSN0603-2 (SOD962)	0.6 x 0.3 x 0.3				
			8.5	10	7.1	30	0.1		PESD3V3V1BCSF						
			11	14	12	30	0.05		PESD3V3S1BSF						
			24	-	20	30	0.05		PESD3V3L1BBSF						
			33	-	20	30	0.05		PESD3V3L1BSF						
		5	5.3	6	1	20	0.1		PESD5V0V1BCSF						
					2	20	0.1		PESD5V0V1BDSF						
			4.5	1	15	0.1	PESD5V0V1BSF								
			12	15.4	3	30	0.1		PESD5V0L1BSF						
			35	45	8	30	0.1		PESD5V0S1BSF						
		5.5	5.3	6	5.4	20	0.1		PESD5V5U1BCSF						
			6.2	7.5	11	22	0.05		PESD5V5S1BSF						
		12	17	19	6.1	30	0.05		PESD12VA-SF						
		16	5.7	6.5	1.3	12	0.05		PESD16VV1BSF						
		18	4	6	3	25	0.1		PESD18VV1BBSF						
		3.3	101	-	18	30	2		PESD3V3L1BA			 SOD323 (SC-76)	1.7 x 1.25 x 0.95		
		5	75	-	15	30	1		PESD5V0L1BA						
		12	19	-	5	30	0.05		PESD12VL1BA						
		15	16	-	5	30	0.05		PESD15VL1BA						
		24	11	-	3	23	0.05		PESD24VL1BA						
		32	9	12	2.5	23	0.05		PESD32VL1BA						
		36	9	12	2	18	0.05		PESD36VL1BA						
		24	14	17	3.5	30	0.05		PESD24VV1BA						
		27	13	17	3	30	0.05		PESD27VV1BA						
		3.3	11	13	5	30	0.01		PESD3V3V1BL					 DFN1006-2 (SOD882)	1.0 x 0.6 x 0.5
			22	30	10	30	0.05		PESD3V3T1BL						
			35	40	15	30	0.1		PESD3V3S1BL						
			65	78	34	30	0.05		PTVS3V3D1BAL						
		4.5	65	78	34	30	0.05		PTVS4V5D1BL						
		5	11	13	4.8	30	0.01		PESD5V0V1BL						

General purpose ESD protection devices

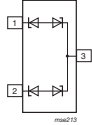


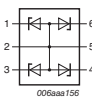





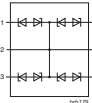

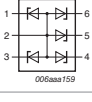





Types in **bold** represent new products

Number of protected lines		V _{RWM} (V)	C _{line typ} (pF)	C _{line max} (pF)	I _{PPM} (A) 8/20µs	ESD rating max (kV) [1]	I _R max (µA) @ V _{RWM}	Configuration	Type	Package	Size (mm)			
Unid/Rectional	Bid/Rectional													
0	1	5	35	45	12	30	0.1		PESD5V0S1BL	DFN1006-2 (SOD882)	1.0 x 0.6 x 0.5			
		5.5	70	84	35	30	0.1		PTV5S5D1BL					
		12	17	25	7.8	30	0.01		PESD12VV1BL					
		24	14	17	3.5	30	0.05		PESD24VV1BL					
		27	14	17	3	30	0.05		PESD27VV1BL					
		3	20	25	10	30	0.1		PESD3V3T1BLD					
		5	11	13	4.8	30	0.01		PESD5V0V1BLD					
			35	45	12	30	0.1		PESD5V0S1BLD					
		3.3	20	25	10	30	0.1		PESD3V3T1BLS					
		5	11	13	4.8	30	0.01		PESD5V0V1BLS					
		12	17	25	7.8	30	0.01		PESD12VV1BLS					
		3.3	15.5	18	7.5	25	0.1		PESD3V3L1BSL					
		5	15.5	18	7.5	25	0.1		PESD5V0L1BSL					
		7	15	20	7	30	0.1		PESD7V0L1BSL					
		12	7.7	9	7.3	30	0.1		PESD12VL1BSL					
		5	11	13	4.8	30	0.01		PESD5V0V1BB					
			35	45	12	30	0.1		PESD5V0S1BB					
			11	13	4.8	30	0.01		PESD5V0V1BA					
			35	45	12	12	0.1		PESD5V0S1BA					
			2.9	3.5	-	10	0.1		PESD5V0U1BL					
									PESD5V0U1BLD					
									PESD5V0U1BB					
									PESD5V0U1BA					
		2	1	3.3	22	28	3		15	0.03		PESD3V3L2UM	DFN1006-3 (SOT883)	1.0 x 0.6 x 0.5
				5	16	19	2.5		15	0.025		PESD5V0L2UM		
							2.5		15	0.025		PESD5V0L2UMB	DFN1006B-3 (SOT883B)	1 x 0.6 x 0.37
				3.3	207	300	18		30	2		PESD3V3S2UT	SOT23	2.9 x 1.3 x 1
				5.2	152	200	15		30	1		PESD5V2S2UT		
12	38			75	5	30	1	PESD12VS2UT						
15	32			70	5	30	1	PESD15VS2UT						
24	23			50	3	23	1	PESD24VS2UT						
36	17			35	2.5	30	1 (@ 30 V)	PESD36VS2UT						
42	17			20	1.8	23	0.05	PESD42VS2UT						
3.3	207			300	18	30	2	PESD3V3S2UAT						
5	152			200	15	30	1	PESD5V0S2UAT						
15	32			70	5	30	0.05	PESD15VS2UAT						
24	23			50	3	23	0.05	PESD24VS2UAT						
5	38			46	6.5	30	0.09 (@ 4 V)		PESD5V0L2UU	SOT323 (SC-70)	2 x 1.25 x 0.95			
6	34			40	5.5	30	0.018 (@ 4.3 V)		PESD6V0L2UU					
0	2			3.3	101	-	15		30	0.05		PESD3V3L2BT	SOT23	2.9 x 1.3 x 1
				5	75	-	13	30	0.05	PESD5V0L2BT				
				12	19	-	5	30	0.1	PESD12VL2BT				

ESD protection, TVS, filtering and signal conditioning























General purpose ESD protection devices

Types in **bold** represent new products

Number of protected lines		V _{RWM} (V)	C _{line} typ (pF)	C _{line} max (pF)	I _{PPM} (A) 8/20µs	ESD rating max (kV) [1]	I _R max (µA) @ V _{RWM}	Configuration	Type	Package	Size (mm)
Unid/Rectional	Bid/Rectional										
0	2	15	16	-	5	30	0.05		PESD15VL2BT		2.9 x 1.3 x 1
		24	11	-	3	23	0.05		PESD24VL2BT		
		24	14	17	3.5	30	0.05		PESD24VV2BT		
		27	13	17	3	30	0.05		PESD27VV2BT		
		48	7	9	4	30	0.05		PESD48VV2BT		
		35	45	12	30	0.1			PESD5V0S2BT	DFN1006-3 (SOT883)	1.0 x 0.6 x 0.5
		2.9	3.5	-	10	0.1			PESD5V0U2BT		
		18	20	9	30	0.01			PESD5V0U2BM		
		2.9	3.5	-	10	0.1			PESD5V0V2BM		
		18	20	9	30	0.01			PESD5V0U2BMB		
		2.9	3.5	-	10	0.1			PESD5V0V2BMB		
		18	20	9	30	0.01			PESD5V0S2BQA		
35	45	35	30	0.1							
4	3	3.3	22	28	3	20	0.3		PESD3V3L4UF		1.45 x 1 x 0.5
			110	300	10	30	1 (@ 3 V)		PESD3V3S4UF		
		5	16	19	2.5	20	0.025		PESD5V0L4UF		
			85	220	10	30	0.1 (@ 4.3 V)		PESD5V0S4UF		
		3	200	240	-	8	2		BZA856A	SOT353 (SC-88A)	2 x 1.25 x 0.95
			3.3	22	28	3	20		0.3		
		5	16	19	2.5	20	0.025		BZA456A	SOT457 (SC-74)	2.9 x 1.5 x 1
			3	200	240	8	2		PESD3V3S4UD		
		3.3	215	300	20	30	0.8		PESD5V0S4UD	DFN1410-6 (SOT886)	1.45 x 1 x 0.5
			5	165	220	20	30		0.2		
		15	37	48	-	8	0.1		PESD24VS4UD	DFN1410-6 (SOT886)	1.45 x 1 x 0.5
			24	40	70	4	23		0.01		
0	4	3.3	9.9	6	20	0.1		PESD3V3L4BHC	DFN1308-6 (SOT8006)	1.3 x 0.8 x 0.4	
								PESD5V0U4BF	DFN1410-6 (SOT886)	1.45 x 1 x 0.5	
		5	45	75	-	15	0.1		BZA408B	SOT457 (SC-74)	2.9 x 1.5 x 1.0
0	5	3.3	22	28	2.5	20	0.3		PESD3V3L5UF	DFN1410-6 (SOT886)	1.45 x 1 x 0.5
									PESD5V0L5UF		
		5	16	19	2.5	20	0.025		PESD3V3L5UY	SOT363 (SC-88)	2 x 1.25 x 0.95
									PESD5V0L5UY		
		3.3	215	300	20	30	0.8		PESD3V3S5UD	SOT457 (SC-74)	2.9 x 1.5 x 1.0
									PESD5V0S5UD		
		12	73	100	10	30	0.015		PESD12V5SUD	DFN1410-6 (SOT886)	1.45 x 1 x 0.5
									PESD15V5SUD		
		15	60	90	6	30	0.015		PESD24V5SUD	DFN1410-6 (SOT886)	1.45 x 1 x 0.5
									PESD5V0U5BF		
24	45	70	4	23	0.015			DFN1410-6 (SOT886)	1.45 x 1 x 0.5		


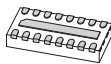
Common mode filters with integrated protection

Types in **bold** represent new products

Interface	Number of protected line pairs	Type	Differential Mode 3 dB frequency (typ.)	range of CM rejection > -10 dB	V _{RWM} (V)	IEC61000-4-2 ESD rating (kV)	IPP (A) 8/20 μs	Channel series resistance (Ω)	Package	Size (mm)
USB2.0	1	IP3319CX6	1.5	0.14 - 5.8	5.5	15	6	6	WLCSP6 	0.95 x 1.34 x 0.6
USB3.2	1	PCMF1USB3BA/C	10 GHz	1.85 - 8.9	4	15	7.5	2.2	WLCSP5 	0.8 x 1.2 x 0.5
	2	PCMF2USB3BA/C							WLCSP10 	1.6 x 1.2 x 0.5
	3	PCMF3USB3BA/C							WLCSP15 	2.4 x 1.2 x 0.5
	1	PCMF1USB3B/C	8.1 GHz	1.24 - 10	4	20	9.5	2.6	WLCSP5 	0.8 x 1.2 x 0.5
	2	PCMF2USB3B/C							WLCSP10 	1.6 x 1.2 x 0.5
	3	PCMF3USB3B/C							WLCSP15 	2.4 x 1.2 x 0.5
	1	PCMF1USB3S	6 GHz	0.63 - 8.3	5	15	7	3	WLCSP5 	0.8 x 1.2 x 0.5
	2	PCMF2USB3S							WLCSP10 	1.6 x 1.2 x 0.5
	3	PCMF3USB3S							WLCSP15 	2.4 x 1.2 x 0.5
	1	PESD1USB3B	16.1 GHz	-	4	20	9.5	-	WLCSP5 	0.8 x 1.2 x 0.5
	2	PESD2USB3B							WLCSP10 	1.6 x 1.2 x 0.5
	3	PESD3USB3B							WLCSP15 	2.4 x 1.2 x 0.5
	1	PESD1USB3S	17 GHz	-	5	15	8	-	WLCSP5 	0.8 x 1.2 x 0.5
	2	PESD2USB3S							WLCSP10 	1.6 x 1.2 x 0.5
	3	PESD3USB3S							WLCSP15 	2.4 x 1.2 x 0.5
HDMI2.0	1	PCMF1HDMI2S	>6 GHz	0.63-8.3	5	15	7	3	WLCSP5 	0.8 x 1.2 x 0.5
	2	PCMF2HDMI2S							WLCSP10 	1.6 x 1.2 x 0.5
	3	PCMF3HDMI2S							WLCSP15 	2.4 x 1.2 x 0.5
HDMI2.1	1	PCMF1HDMI2BA-C	10 GHz	1.85 - 8.9	4	15	7.5	2.2	WLCSP5 	0.8 x 1.2 x 0.5
	2	PCMF2HDMI2BA-C							WLCSP10 	1.6 x 1.2 x 0.5
	3	PCMF3HDMI2BA-C							WLCSP15 	2.4 x 1.2 x 0.5





ESD protection, TVS, filtering and signal conditioning


RC low pass filters with integrated protection


Number of protected lines	Line small-signal equivalents			Digital interface clock speed (MHz)	Insertion loss S21~ -3 dB (MHz)	Type	Package	Size (mm)
	Rline (Ω)	Cline (pF)	Lline (nH)					
4	40	18	-	~100	300	IP4252CZ8-4-TTL	DFN1714-8 (SOT1166) 	1.7 x 1.35 x 0.52
	100	45	-	~40	130	IP4254CZ8-4-TTL		
8	40	18	-	~100	300	IP4252CZ16-8-TTL	DFN3314-16 (SOT1168) 	3.3 x 1.35 x 0.53
	100	45	-	~40	130	IP4254CZ16-8-TTL		

Transient Voltage Surge Suppressor (TVS)

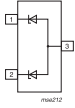

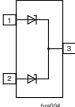

TVS diodes for mobile applications

V_{RWM}	$V_{BR\ min}$	$V_{BR\ max}$	$I_{PPM\ 8/20\mu s}$	$V_{CL\ 8/20\mu s}$	Type	Package	Size
3.3	4.7	-	34	13.2	PTVS3V3D1BAL	DFN1006-2 (SOD882) 	1.0 x 0.6 x 0.48
4.5	4.7	-	34	13.2	PTVS4V5D1BL		
5.5	5.6	7.6	35	12.2	PTVS5V5D1BL		
3.3	3.8	6.8	70	11	PTVS3V3Z1BSC	DSN1006-2 (SOD993B) 	1.0 x 0.6 x 0.27
5	5.5	8.3	60	12	PTVS5V0Z1BSC		
4.8	5.1	7	150	8.5	PTVS4V8Z1UPC	DFN1610-2 (SOD1610) 	1.6 x 1.0 x 0.55
5	5.1	7	150	8.5	PTVS5V0Z1UPC		
24	25	29	150	28	PTVS24VZ1UPA	DFN2020-3 (SOT1061) 	2.0 x 2.0 x 0.55

$P_{PPM\ 10/1000\mu s}$	V_{RWM}	$V_{BR\ min}$	$V_{BR\ max}$	$I_{PPM\ 8/20\mu s}$	$V_{CL\ 8/20\mu s}$	$I_{PPM\ 10/1000\mu s}$	$V_{CL\ 10/1000\mu s}$	Type	Package	Size
300	7.5	8.33	9.21	178	19.7	23.3	12.9	PTVS7V5U1UPA	DFN2020-3 (SOT1061) 	2.0 x 2.0 x 0.62
	10	11.1	12.3	148	23	17.6	17	PTVS10VU1UPA		
	12	13.3	14.7	131	25.2	15.1	19.9	PTVS12VU1UPA		
	15	16.7	18.5	111	28.8	12.3	24.4	PTVS15VU1UPA		
	18	20	22.1	97	32	10.3	29.2	PTVS18VU1UPA		
	20	22.2	24.5	98.5	38.7	9.2	32.5	PTVS20VU1UPA		
	22	24.4	26.9	88.5	41	8.4	35.5	PTVS22VU1UPA		
	24	26.7	29.5	79	44.2	7.7	38.8	PTVS24VU1UPA		
26	28.9	31.9	69	43.5	7	43	PTVS26VU1UPA			

$V_{RWM}\ (V)$	$V_{br\ min}\ (V)$	$V_{br\ max}\ (V)$	8/20 μs pulse		10/1000 μs pulse		$I_{Rm\ typ}\ @\ V_{RWM}\ (nA)$	$I_{Rm\ max}\ @\ V_{RWM}\ (nA)$	$R_{dyn}\ (TLP)$	Type	Package	Size
			$V_{cl}\ @\ I_{ppm}\ (V)_{max}$	$V_{cl}\ @\ I_{ppm}\ (A)$	$V_{cl}\ @\ I_{ppm}\ (V)_{max}$	$I_{ppm}\ (A)$						
5	6.4	7.8	19.4	100	12	20	25	1000	0.1	PTVS5V0Z1USKP	DSN1608-2 (SOD964) 	1.6 x 0.8 x 0.27
			18	80	12	20	25	1000	0.06	PTVS5V0Z1USK		
7.5	8.33	9.65	22	100	13.5	17	1	200	0.08	PTVS7V5Z1USK		
10	11.1	12.9	27	75	18.2	12.5	0.1	200	0.11	PTVS10VZ1USK		
12	13.1	15.4	29	65	21.8	10.5	0.1	200	0.11	PTVS12VZ1USK		
15	16.7	19.4	26	52	27.4	7.5	0.1	200	0.13	PTVS15VZ1USK		
18	20	23.2	44	41	32.8	6.4	0.1	200	0.17	PTVS18VZ1USK		
20	22.2	25.4	48.3	41	36.9	6	1	200	0.2	PTVS20VZ1USK		
22	24.4	26.9	51	39	40	5	0.1	200	0.2	PTVS22VZ1USK		
26	28.9	33.4	57.5	32	46	4.5	0.1	200	0.15	PTVS26VZ1USK		

TVS diodes, 24 W/40 W


Power (W) (10 / 1000 μ s waveform) ^[1]	V _{RWM} (V)	V min (V) @ I	V typ (V) @ I	V _{BR} max (V) @ I _R	I _R (mA)	ESD rating max (kV)	C typ (pF)	V _{CL} max (V) @ IPP ^[1]	I _{PP} (A) ^[1]	I _{RWM} max (μ A) @ V _{RWM}	Configuration	Type	Package	Size (mm)			
24	3	5.32	5.6	5.88	20	30	210	8	3	5		MMBZ5V6AL		2.9 x 1.3 x 1.0			
		5.89	6.2	6.51	1	30	175	8.7	2.76	0.2		MMBZ6V2AL					
	4.5	6.48	6.8	7.14	1	30	150	9.6	2.5	0.3		MMBZ6V8AL					
	6	8.65	9.1	9.56	1	30	155	14	1.7	0.1		MMBZ9V1AL					
	6.5	9.5	10	10.5	1	30	130	14.2	1.7	0.02		MMBZ10VAL					
40	8.5	11.4	12	12.6	1	30	110	17	2.35	0.005					MMBZ12VAL		2.9 x 1.3 x 1.0
	12	14.25	15	15.75	1	30	85	21	1.9	0.005					MMBZ15VAL		
	13	15.2	16	16.8	1	30	76	23	1.9	0.005					MMBZ16VAL		
	13	15.68	16	16.32	1	30	76	23	1.9	0.005					MMBZ16VTAL		
	14.5	17.1	18	18.9	1	30	70	25	1.6	0.005					MMBZ18VAL		
	17	19	20	21	1	30	65	28	1.4	0.005					MMBZ20VAL		
	22	25.65	27	28.35	1	30	48	40	1	0.005					MMBZ27VAL		
	26	31.35	33	34.65	1	30	45	46	0.87	0.005					MMBZ33VAL		
	8.5	11.4	12	12.6	1	30	110	17	2.35	0.005	MMBZ12VDL						
	12.8	14.3	15	15.8	1	30	85	21.2	1.9	0.005	MMBZ15VDL						
	14.5	17.1	18	18.9	1	30	70	25	1.6	0.005	MMBZ18VCL						
	17	19	20	21	1	30	65	28	1.4	0.005	MMBZ20VCL						
	22	25.65	27	28.35	1	30	48	38	1	0.005	MMBZ27VCL						
	26	31.35	33	34.65	1	30	45	46	0.87	0.005	MMBZ33VCL						

^[1] 10/1000 μ s according to IEC 61643-3:21

ESD protection, TVS, filtering and signal conditioning


Transient Voltage Surge Suppressor (TVS)

TVS 400 W

Power (W) (10/1000 µs waveform) [1]	V_{RWM} (V)	$V_{BR\ min}$ (V) @ I_R	$V_{BR\ typ}$ (V) @ I_R	$V_{BR\ max}$ (V) @ I_R	$V_{CL\ max}$ (V) @ I_{PP} [1]	$V_{CL\ max}$ (V) @ I_{PPM} [1]	I_{PP} (A) [1]	$I_{RM\ typ}$ (µA) @ V_{RWM}	$I_{RM\ max}$ (µA) @ V_{RWM}	Type (Tj max = 150 °C)	Type (Tj max = 185 °C)	Package	Size (mm)
350	3.5	5.20	5.60	6.00	10	8.0	43.8	5	600	PTVS3V3S1UR	PTVS3V3S1UTR		
400	5.0	6.40	6.70	7.00	10	9.2	43.5	5	400	PTVS5V0S1UR	PTVS5V0S1UTR		
	6.0	6.67	7.02	7.37	10	10.3	38.8	5	400	PTVS6V0S1UR	PTVS6V0S1UTR		
	6.5	7.22	7.60	7.98	10	11.2	35.7	5	250	PTVS6V5S1UR	PTVS6V5S1UTR		
	7.0	7.78	8.20	8.60	10	12.0	33.3	3	100	PTVS7V0S1UR	PTVS7V0S1UTR		
	7.5	8.33	8.77	9.21	1	12.9	31.0	0.2	50	PTVS7V5S1UR	PTVS7V5S1UTR		
	8.0	8.89	9.36	9.83	1	13.6	29.4	0.03	25	PTVS8V0S1UR	PTVS8V0S1UTR		
	8.5	9.44	9.92	10.40	1	14.4	27.8	0.01	10	PTVS8V5S1UR	PTVS8V5S1UTR		
	9.0	10.00	10.55	11.10	1	15.4	26.0	0.005	5	PTVS9V0S1UR	PTVS9V0S1UTR		
	10	11.10	11.70	12.30	1	17.0	23.5	0.005	2.5	PTVS10VS1UR	PTVS10VS1UTR		
	11	12.20	12.85	13.50	1	18.2	22.0	0.005	2.5	PTVS11VS1UR	PTVS11VS1UTR		
	12	13.30	14.00	14.70	1	19.9	20.1	0.005	2.5	PTVS12VS1UR	PTVS12VS1UTR		
	13	14.40	15.15	15.90	1	21.5	18.6	0.001	0.1	PTVS13VS1UR	PTVS13VS1UTR		
	14	15.60	16.40	17.20	1	23.2	17.2	0.001	0.1	PTVS14VS1UR	PTVS14VS1UTR		
	15	16.70	17.60	18.50	1	24.4	16.4	0.001	0.1	PTVS15VS1UR	PTVS15VS1UTR		
	16	17.80	18.75	19.70	1	26.0	15.4	0.001	0.1	PTVS16VS1UR	PTVS16VS1UTR		
	17	18.90	19.90	20.90	1	27.6	14.5	0.001	0.1	PTVS17VS1UR	PTVS17VS1UTR		
	18	20.00	21.00	22.10	1	29.2	13.7	0.001	0.1	PTVS18VS1UR	PTVS18VS1UTR	SOD123W	2.6 x 1.7 x 1.0
	20	22.20	23.35	24.50	1	32.4	12.3	0.001	0.1	PTVS20VS1UR	PTVS20VS1UTR		
	22	24.40	25.60	26.90	1	35.5	11.3	0.001	0.1	PTVS22VS1UR	PTVS22VS1UTR		
	24	26.70	28.10	29.50	1	38.9	10.3	0.001	0.1	PTVS24VS1UR	PTVS24VS1UTR		
	26	28.90	30.40	31.90	1	42.1	9.5	0.001	0.1	PTVS26VS1UR	PTVS26VS1UTR		
	28	31.10	32.80	34.40	1	45.4	8.8	0.001	0.1	PTVS28VS1UR	PTVS28VS1UTR		
	30	33.30	35.10	36.80	1	48.4	8.3	0.001	0.1	PTVS30VS1UR	PTVS30VS1UTR		
	33	36.70	38.70	40.60	1	53.3	7.5	0.001	0.1	PTVS33VS1UR	PTVS33VS1UTR		
	36	40.00	42.10	44.20	1	58.1	6.9	0.001	0.1	PTVS36VS1UR	PTVS36VS1UTR		
	40	44.40	46.80	49.10	1	64.5	6.2	0.001	0.1	PTVS40VS1UR	PTVS40VS1UTR		
	43	47.80	50.30	52.80	1	69.4	5.8	0.001	0.1	PTVS43VS1UR	PTVS43VS1UTR		
	45	50.00	52.65	55.30	1	72.7	5.5	0.001	0.1	PTVS45VS1UR	PTVS45VS1UTR		
	48	53.30	56.10	58.90	1	77.4	5.2	0.001	0.1	PTVS48VS1UR	PTVS48VS1UTR		
	51	56.70	59.70	62.70	1	82.4	4.9	0.001	0.1	PTVS51VS1UR	PTVS51VS1UTR		
54	60.00	63.15	66.30	1	87.1	4.6	0.001	0.1	PTVS54VS1UR	PTVS54VS1UTR			
58	64.40	67.80	71.20	1	93.6	4.3	0.001	0.1	PTVS58VS1UR	PTVS58VS1UTR			
60	66.70	70.20	73.70	1	96.8	4.1	0.001	0.1	PTVS60VS1UR	PTVS60VS1UTR			
64	71.10	74.85	78.60	1	103.0	3.9	0.001	0.1	PTVS64VS1UR	PTVS64VS1UTR			

[1] 10/1000µs according to IEC 61643-321

TVS 600 W

Power (W) (10/1000 µs waveform) [1]	V_{RWM} (V)	$V_{BR\ min}$ (V) @ I_R	$V_{BR\ typ}$ (V) @ I_R	$V_{BR\ max}$ (V) @ I_R	I_R (mA)	$V_{CL\ max}$ (V) @ $I_{PP}[1]$	I_{PP} (A) [1]	$I_{RM\ typ}$ (µA) @ V_{RWM}	$I_{RM\ max}$ (µA) @ V_{RWH}	Type ($T_j\ max = 150$ °C)	Type ($T_j\ max = 185$ °C)	Package	Size (mm)
600	3.5	5.20	5.60	6.00	10	8	75	5	600	PTVS3V3P1UP	PTVS3V3P1UTP		3.8 x 2.6 x 1.0
	5	6.40	6.70	7.00	10	9.2	65.2	5	400	PTVS5V0P1UP	PTVS5V0P1UTP		
	6	6.67	7.02	7.37	10	10.3	58.3	5	400	PTVS6V0P1UP	PTVS6V0P1UTP		
	6.5	7.22	7.60	7.98	10	11.2	53.6	5	250	PTVS6V5P1UP	PTVS6V5P1UTP		
	7	7.78	8.20	8.60	10	12	50	3	100	PTVS7V0P1UP	PTVS7V0P1UTP		
	7.5	8.33	8.77	9.21	1	12.9	46.5	0.2	50	PTVS7V5P1UP	PTVS7V5P1UTP		
	8	8.89	9.36	9.83	1	13.6	44.1	0.03	25	PTVS8V0P1UP	PTVS8V0P1UTP		
	8.5	9.44	9.92	10.40	1	14.4	41.7	0.01	10	PTVS8V5P1UP	PTVS8V5P1UTP		
	9	10.00	10.55	11.10	1	15.4	39	0.005	5	PTVS9V0P1UP	PTVS9V0P1UTP		
	10	11.10	11.70	12.30	1	17	35.3	0.005	2.5	PTVS10VP1UP	PTVS10VP1UTP		
	11	12.20	12.85	13.50	1	18.2	33	0.005	2.5	PTVS11VP1UP	PTVS11VP1UTP		
	12	13.30	14.00	14.70	1	19.9	30.2	0.005	2.5	PTVS12VP1UP	PTVS12VP1UTP		
	13	14.40	15.15	15.90	1	21.5	27.9	0.001	0.1	PTVS13VP1UP	PTVS13VP1UTP		
	14	15.60	16.40	17.20	1	23.2	25.9	0.001	0.1	PTVS14VP1UP	PTVS14VP1UTP		
	15	16.70	17.60	18.50	1	24.4	24.6	0.001	0.1	PTVS15VP1UP	PTVS15VP1UTP		
	16	17.80	18.75	19.70	1	26	23.1	0.001	0.1	PTVS16VP1UP	PTVS16VP1UTP		
	17	18.90	19.90	20.90	1	27.6	21.7	0.001	0.1	PTVS17VP1UP	PTVS17VP1UTP		
	18	20.00	21.00	22.10	1	29.2	20.5	0.001	0.1	PTVS18VP1UP	PTVS18VP1UTP		
	20	22.20	23.35	24.50	1	32.4	18.5	0.001	0.1	PTVS20VP1UP	PTVS20VP1UTP		
	22	24.40	25.60	26.90	1	35.5	16.9	0.001	0.1	PTVS22VP1UP	PTVS22VP1UTP		
	24	26.70	28.10	29.50	1	38.9	15.4	0.001	0.1	PTVS24VP1UP	PTVS24VP1UTP		
	26	28.90	30.40	31.90	1	42.1	14.2	0.001	0.1	PTVS26VP1UP	PTVS26VP1UTP		
	28	31.10	32.80	34.40	1	45.4	13.2	0.001	0.1	PTVS28VP1UP	PTVS28VP1UTP		
	30	33.30	35.10	36.80	1	48.4	12.4	0.001	0.1	PTVS30VP1UP	PTVS30VP1UTP		
	33	36.70	38.70	40.60	1	53.3	11.3	0.001	0.1	PTVS33VP1UP	PTVS33VP1UTP		
	36	40.00	42.10	44.20	1	58.1	10.3	0.001	0.1	PTVS36VP1UP	PTVS36VP1UTP		
	40	44.40	46.80	49.10	1	64.5	9.3	0.001	0.1	PTVS40VP1UP	PTVS40VP1UTP		
	43	47.80	50.30	52.80	1	69.4	8.6	0.001	0.1	PTVS43VP1UP	PTVS43VP1UTP		
	45	50.00	52.65	55.30	1	72.7	8.3	0.001	0.1	PTVS45VP1UP	PTVS45VP1UTP		
	48	53.30	56.10	58.90	1	77.4	7.8	0.001	0.1	PTVS48VP1UP	PTVS48VP1UTP		
	51	56.70	59.70	62.70	1	82.4	7.3	0.001	0.1	PTVS51VP1UP	PTVS51VP1UTP		
	54	60.00	63.15	66.30	1	87.1	6.9	0.001	0.1	PTVS54VP1UP	PTVS54VP1UTP		
58	64.40	67.80	71.20	1	93.6	6.4	0.001	0.1	PTVS58VP1UP	PTVS58VP1UTP			
60	66.70	70.20	73.70	1	96.8	6.2	0.001	0.1	PTVS60VP1UP	PTVS60VP1UTP			
64	71.10	74.85	78.60	1	103	5.8	0.001	0.1	PTVS64VP1UP	PTVS64VP1UTP			

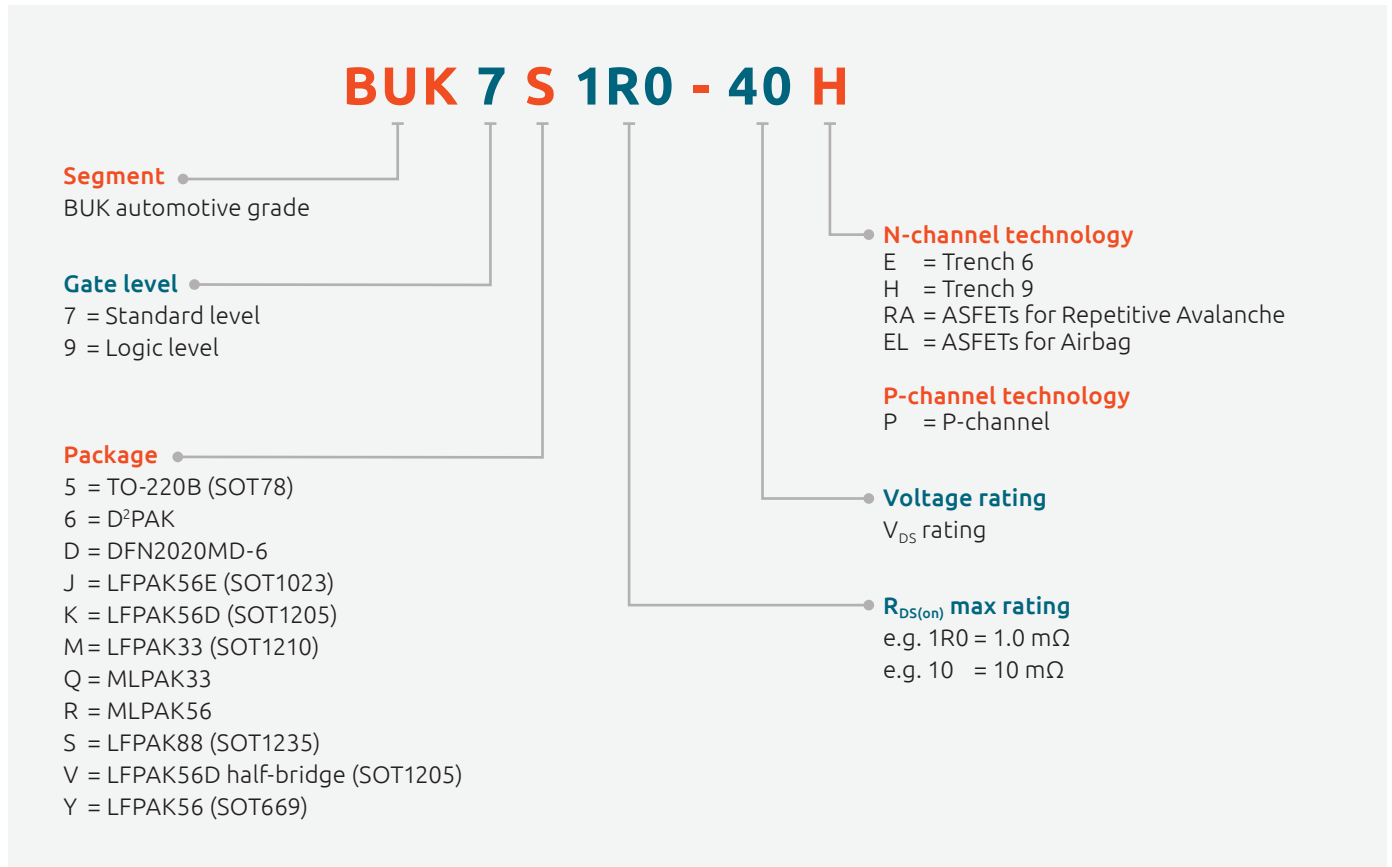
ESD protection, TVS, filtering and signal conditioning

[1] 10/1000µs according to IEC 61643-321





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


N-channel 30 V automotive power MOSFETs



Package name	Type number	V _{DS} [max] (V)	R _{DS(on)} [max] @ 10 V (mΩ)	R _{DS(on)} [max] @ 5 V (mΩ)	I _D [max] @ 25 °C (A)	R _{th(j-mb)} [max] (K/W)
LFPAK56D (SOT1205) 	BUK9K5R1-30E	30	4.4	5.3	40	2.21
	BUK9K5R6-30E	30	4.7	5.8	40	2.36
	BUK7K5R1-30E	30	5.1		40	2.21
	BUK7K5R6-30E	30	5.6		40	2.36
LFPAK33 (SOT1210) 	BUK9M5R2-30E	30	4.1	5.2	70	1.89
	BUK9M6R6-30E	30	5.3	6.6	70	2
	BUK9M10-30E	30	7.8	10	54	2.75
	BUK9M17-30E	30	14	17	37	3.4

N-channel 40 V automotive power MOSFETs



Types in **bold red** are in development.

Package name	Type number	V_{DS} [max] (V)	$R_{DS(on)}$ [max] @ 10 V (m Ω)	$R_{DS(on)}$ [max] @ 5 V (m Ω)	I_D [max] @ 25 °C (A)	$R_{th(j-mb)}$ [max] (K/W)
TO-220AB (SOT78) 	BUK758R3-40E	40	7.4		75	1.56
LFPAK88 (SOT1235) 	BUK750R5-40H	40	0.55		500	0.4
	BUK750R7-40H	40	0.7		425	0.4
	BUK751R0-40H	40	1		325	0.4
	BUK751R2-40H	40	1.2		300	0.51
	BUK751R5-40H	40	1.5		260	0.62
	BUK752R0-40H	40	2.0		190	0.82
	BUK752R5-40H	40	2.5		140	1.11
D ² PAK (SOT404) 	BUK961R6-40E	40	1.4	1.6	120	0.43
	BUK761R6-40E	40	1.6		120	0.43
	BUK764R0-40E	40	4		75	0.82
	BUK768R1-40E	40	7.2		75	1.56
LFPAK56E (SOT1023) 	BUK9J0R9-40H	40	0.94	1.2	220	0.3
	BUK7J1R0-40H	40	1		220	0.3
	BUK7J1R4-40H	40	1.4		120	0.38
LFPAK56; Power-SO8 (SOT669) 	BUK7Y0R9-40N	40	0.9			
	BUK9Y1R3-40H	40	1.3	1.8	190	0.38
	BUK7Y1R4-40H	40	1.4		190	0.38
	BUK9Y1R6-40H	40	1.6	2.2	120	0.51
	BUK7Y1R7-40H	40	1.7		120	0.51
	BUK9Y1R9-40H	40	1.9	2.6	120	0.69
	BUK7Y2R0-40H	40	2		120	0.69
	BUK9Y2R4-40H	40	2.4	3.2	120	0.79
	BUK9Y3R0-40E	40	2.5	3	100	0.77
	BUK7Y2R5-40H	40	2.5		120	0.79
	BUK9Y2R8-40H	40	2.8	3.9	120	0.87
	BUK7Y3R0-40H	40	3		120	0.87
	BUK7Y3R5-40H	40	3.5		120	1.3
	BUK7Y3R5-40E	40	3.5		100	0.9
	BUK9Y3R5-40E	40	3.6	3.8	100	0.9
	BUK9Y4R4-40E	40	3.7	4.4	100	1.02
	BUK7Y4R4-40E	40	4.4		100	1.02
	BUK9Y7R6-40E	40	6	7.6	79	1.58
	BUK9Y6R5-40H	40	6.5	7.9	70	2.35
	BUK7Y7R0-40H	40	7		68	2.35
	BUK9Y12-40E	40	10	12	52	2.31
	BUK7Y12-40E	40	12		52	2.31
	BUK9Y21-40E	40	17	21	33	3.33
BUK7Y21-40E	40	21		33	3.33	
BUK9Y29-40E	40	25	29	25	4.03	
BUK7Y29-40E	40	29		26	4.03	

N-channel 40 V automotive power MOSFETs





Package name	Type number	V_{DS} [max] (V)	$R_{DS(on)}$ [max] @ 10 V (m Ω)	$R_{DS(on)}$ [max] @ 4.5 V or 5 V (m Ω)	I_D [max] @ 25 °C (A)	$R_{th(j-mb)}$ [max] (K/W)
LFPAK56D (SOT1205) 	BUK7V4R2-40H	40	4.2		98	1.76
	BUK7K6R2-40E	40	5.8		40	2.21
	BUK9K6R2-40E	40	6	6.2	40	2.21
	BUK9K6R8-40E	40	6.1	7.2	40	2.36
	BUK7K6R8-40E	40	6.8			2.36
	BUK9K8R7-40E	40	8	9.4	30	2.84
	BUK7K8R7-40E	40	8.5			2.84
	BUK9V13-40H	40	13	17	42	3
	BUK9K13-40H	40	14	17	42	3
	BUK9K18-40E	40	16	20	30	3.96
	BUK7K18-40E	40	19		24	3.96
	BUK9K25-40E	40	24	29	18	4.68
	BUK9K25-40RA	40	24	29	18.2	4.68
	BUK7K25-40E	40	25		27	4.68
LFPAK33 (SOT1210) 	BUK7M3R3-40H	40	3.3		80	1.48
	BUK9M3R3-40H	40	3.3	4.2	80	1.48
	BUK7M4R3-40H	40	4.3		95	1.67
	BUK9M4R3-40H	40	4.3	5.5	95	1.67
	BUK7M5R0-40H	40	5		85	1.81
	BUK9M5R0-40H	40	5	6.4	85	1.81
	BUK9M7R2-40E	40	5.8	7.2	70	1.89
	BUK7M6R0-40H	40	6		50	2.14
	BUK9M6R0-40H	40	6	7.7	50	2.14
	BUK7M6R3-40E	40	6.3		70	1.89
	BUK7M6R7-40H	40	6.7		50	2.32
	BUK9M6R7-40H	40	6.7	8.6	50	2.32
	BUK9M9R1-40E	40	7.3	9.1	64	2
	BUK7M8R0-40E	40	8		69	2
	BUK7M8R5-40H	40	8.5		40	2.56
	BUK9M8R5-40H	40	8.5	11	40	2.56
	BUK9M11-40E	40	9	11	53	2.43
	BUK7M9R5-40H	40	9.5		40	2.74
	BUK9M9R5-40H	40	9.5	12	40	2.74
	BUK7M10-40E	40	10		56	2.43
	BUK7M11-40H	40	11		35	3
	BUK9M11-40H	40	11	14	35	3
	BUK9M14-40E	40	11	14	44	2.75
	BUK7M12-40E	40	12		48	2.75
	BUK7M15-40H	40	15		30	3.44
	BUK9M15-40H	40	15	19	30	3.44
	BUK9M24-40E	40	20	24	30	3.4
	BUK7M20-40H	40	20		25	3.96
	BUK9M20-40H	40	20	25	25	3.96
	BUK7M21-40E	40	21		33	3.4
	BUK9M52-40E	40	40	52	18	4.8
	BUK7M45-40E	40	45		19	4.8

N-channel 55 V - 60 V automotive power MOSFETs

Package name	Type number	V_{DS} [max] (V)	$R_{DS(on)}$ [max] @ 10 V (m Ω)	$R_{DS(on)}$ [max] @ 5 V (m Ω)	I_D [max] @ 25 °C (A)	$R_{th(j-mb)}$ [max] (K/W)
D ² PAK (SOT404) 	BUK9675-55A	55	68	75	20	2.4
	BUK7675-55A	55	75		20	2.4
	BUK962R5-60E	60	2.3	2.5	120	0.43
	BUK762R4-60E	60	2.4		120	0.43
	BUK762R6-60E	60	2.6		120	0.46
	BUK963R3-60E	60	3	3.3	120	0.51
	BUK763R1-60E	60	3.1		120	0.51
	BUK764R4-60E	60	4.5		100	0.64
	BUK966R5-60E	60	5.9	6.5	75	0.82
	BUK766R0-60E	60	6		75	0.82
	BUK969R0-60E	60	8	9	75	1.09
	BUK768R3-60E	60	8.3		75	1.09
	BUK7613-60E	60	13		58	1.56
LFPAK56; Power-SO8 (SOT669) 	BUK9Y4R8-60E	60	4.1	4.8	100	0.63
	BUK7Y4R8-60E	60	4.8		100	0.63
	BUK9Y6R0-60E	60	5.2	6	100	0.77
	BUK9Y7R2-60E	60	5.6	7.2	100	0.9
	BUK7Y6R0-60E	60	6		100	0.77
	BUK9Y7R0-60EL	60	6.2	7	100	0.63
	BUK7Y7R2-60E	60	7.2		100	0.9
	BUK9Y8R7-60E	60	7.5	8.7	86	1.02
	BUK9Y8R8-60EL	60	8	9	100	0.77
	BUK7Y8R7-60E	60	8.7		87	1.02
	BUK9Y13-60EL	60	11	13	73	1.02
	BUK7Y15-60E	60	15		53	1.59
	BUK9Y22-60EL	60	20	22	45	1.58
	BUK9Y25-60E	60	22	25	34	2.31
	BUK7Y25-60E	60	25		34	2.31
	BUK9Y43-60E	60	38	43	22	3.33
	BUK7Y43-60E	60	43		22	3.33
BUK9Y59-60E	60	52	59	17	4.03	
BUK7Y59-60E	60	59		17	4.03	







N-channel 55 V - 60 V automotive power MOSFETs

Types in **bold red** are in development.




Package name	Type number	V _{DS} [max] (V)	R _{DS(on)} [max] @ 10 V (mΩ)	R _{DS(on)} [max] @ 5 V (mΩ)	I _D [max] @ 25 °C (A)	R _{th(j-mb)} [max] (K/W)
LFPAK56D (SOT1205) 	BUK7K12-60E	60	9.3		40	2.21
	BUK7K13-60E	60	10		40	2.36
	BUK9K12-60E	60	11	12	35	2.21
	BUK9K13-60RA	60	11.2	12.5	40	2.36
	BUK9K13-60E	60	12	13	40	2.36
	BUK7K17-60E	60	14		30	2.84
	BUK7K35-60E	60	30		21	3.96
	BUK9K35-60E	60	32	35	22	3.96
	BUK9K35-60RA	60	32	35	22	3.96
	BUK7K52-60E	60	45		15	4.68
	BUK9K52-60E	60	49	55	16	4.68
	BUK9K52-60RA	60	49	55	16	4.68
LFPAK33 (SOT1210) 	BUK7M9R9-60E	60	9.9		60	1.89
	BUK9M12-60E	60	11	12	54	1.89
	BUK7M12-60E	60	12		53	2
	BUK9M15-60E	60	13	15	47	2
	BUK7M15-60E	60	15		43	2.43
	BUK9M20-60EL	60	17	20	46	1.89
	BUK9M19-60E	60	17	19	38	2.43
	BUK7M19-60E	60	19		36	2.75
	BUK9M24-60E	60	21	24	32	2.75
	BUK9M31-60EL	60	27	31	32	2.43
	BUK7M33-60E	60	33			3.4
	BUK9M42-60E	60	37	42	22	3.4
	BUK7M42-60E	60	42		20	4.17
	BUK9M53-60E	60	46	53	17	4.17
	BUK9M67-60EL	60	59	67	19	3.4
	BUK7M67-60E	60	67		14	4.8
	BUK9M85-60E	60	73	85	13	4.8
MLPAK33 (SOT8002-3) 	BXK9Q29-60A	60	29			
SC-73 (SOT223) 	BUK9832-55A/CU	55	29	32	12	15
	BUK9880-55A/CU	55	73	80	7	15
	BUK7880-55A/CU	55	80		7	15
	BUK98150-55A/CU	55	137	150	5.5	
	BUK78150-55A/CU	55	150		5.5	

N-channel 75 V - 80 V automotive power MOSFETs

Types in **bold red** are in development.




Package name	Type number	V_{DS} [max] (V)	$R_{DS(on)}$ [max] @ 10 V (m Ω)	$R_{DS(on)}$ [max] @ 5 V (m Ω)	I_b [max] @ 25 °C (A)	$R_{th(j-mb)}$ [max] (K/W)
D ² PAK (SOT404) 	BUK9616-75B	75	14	16	67	0.95
	BUK763R8-80E	80	3.8		120	0.43
	BUK964R2-80E	80	4	4.2	120	0.43
	BUK764R2-80E	80	4.2		120	0.46
	BUK9611-80E	80	10	11	75	0.82
LFPAK88 (SOT1235) 	BUK754R5-80L	80	4.5			
LFPAK56; Power-SO8 (SOT669) 	BUK7Y7R8-80E	80	7.8		100	0.63
	BUK9Y8R5-80E	80	8	8.5	100	0.63
	BUK7Y9R9-80E	80	9.9		89	0.77
	BUK9Y11-80E	80	10	11	84	0.77
	BUK9Y14-80E	80	14	15	62	1.02
	BUK7Y14-80E	80	14		65	1.02
	BUK9Y25-80E	80	25	27	37	1.58
	BUK7Y25-80E	80	25		39	1.58
	BUK9Y41-80E	80	41	45	24	2.33
	BUK7Y41-80E	80	41		25	2.31
	BUK9Y72-80E	80	72	78	15	3.33
	BUK7Y72-80E	80	72		16	3.33
	BUK9Y107-80E	80	98	107	12	4.03
	BUK7Y98-80E	80	98		12	4.03
LFPAK56D (SOT1205) 	BUK7K15-80E	80	15		23	2.21
	BUK7K17-80E	80	17		21	2.36
	BUK9K20-80E	80	17	19	23	2.84
	BUK7K23-80E	80	23		17	2.21
	BUK9K22-80E	80	19	22	21	2.36
	BUK9K30-80E	80	26	30	17	2.84
LFPAK33 (SOT1210) 	BUK7M17-80E	80	17		43	1.89
	BUK9M23-80E	80	20	23	37	1.89
	BUK7M22-80E	80	22		37	2
	BUK7M27-80E	80	27		30	2.43
	BUK9M28-80E	80	28	28	33	2
	BUK9M35-80E	80	35	35	26	2.43
MLPAK33 (SOT8002-3) 	BXK9Q14-80A	80	14			
	BXK9Q16-80A	80	16			
	BXK9Q22-80A	80	22			
	BXK9Q27-80A	80	27			
	BXK9Q33-80A	80	33			
	BXK9Q44-80A	80	44			

N-channel 100 V automotive power MOSFETs


Package name	Type number	V_{DS} [max] (V)	$R_{DS(on)}$ [max] @ 10 V (m Ω)	$R_{DS(on)}$ [max] @ 5 V (m Ω)	I_b [max] @ 25 °C (A)	$R_{th(j-mb)}$ [max] (K/W)
D ² PAK (SOT404) 	BUK765R0-100E	100	5		120	0.43
	BUK965R8-100E	100	5.6	5.8	120	0.43
	BUK969R3-100E	100	8.9	9.3	100	0.57
	BUK9637-100E	100	36	37	31	1.56
	BUK9675-100A	100	72	75	23	1.5
LFPAK56; Power-SO8 (SOT669) 	BUK9Y12-100E	100	12	12	85	0.63
	BUK7Y12-100E	100	12		85	0.63
	BUK9Y15-100E	100	15	15	69	0.77
	BUK9Y19-100E	100	18	19	56	0.9
	BUK7Y19-100E	100	19		56	0.9
	BUK9Y22-100E	100	22	22	49	1.02
	BUK7Y22-100E	100	22		49	1.02
	BUK9Y38-100E	100	38	38	30	1.58
	BUK7Y38-100E	100	38		30	1.58
	BUK9Y65-100E	100	64	65	19	2.31
	BUK7Y65-100E	100	65		19	2.31
	BUK9Y113-100E	100	110	113	12	3.33
	BUK7Y113-100E	100	113		12	3.33
	BUK9Y153-100E	100	146	153	9.4	4.03
BUK7Y153-100E	100	153		9.4	4.03	
LFPAK56D (SOT1205) 	BUK7K29-100E	100	25		29.5	2.21
	BUK9K29-100E	100	27	29	30	2.21
	BUK7K32-100E	100	28		29	2.36
	BUK9K32-100E	100	31	33	26	2.36
	BUK7K45-100E	100	38		21	2.84
	BUK9K45-100E	100	42	45	21	2.84
	BUK7K89-100E	100	83		13	3.96
	BUK9K89-100E	100	85	89	13	3.96
	BUK7K134-100E	100	121		9.8	4.68
	BUK9K134-100E	100	154	159	8.5	4.68

N-channel 100 V automotive power MOSFETs

Types in **bold red** are in development.





Package name	Type number	V_{DS} [max] (V)	$R_{DS(on)}$ [max] @ 10 V (m Ω)	$R_{DS(on)}$ [max] @ 5 V (m Ω)	I_D [max] @ 25 °C (A)	$R_{th(j-mb)}$ [max] (K/W)
LFPAK33 (SOT1210) 	BUK9M34-100E	100	34	34	29	1.89
	BUK9M43-100E	100	43	44	26	1.88
	BUK9M120-100E	100	119	120	12	3.4
	BUK9M156-100E	100	150	156	9.3	4.17
MLPAK33 (SOT8002-3) 	BXK9Q16-100A	100	16			
	BXK9Q22-100A	100	22			
	BXK9Q29-100A	100	29			
	BXK9Q33-100A	100	33			
	BXK9Q46-100A	100	46			
	BXK9Q55-100A	100	55			
SC-73 (SOT223) 	BUK98180-100A/CU	100	173	180	4.6	
	BUK9875-100A/CU	101	72	75	7	

P-channel 30 V - 60 V automotive power MOSFETs

Package name	Type number	V_{DS} [max] (V)	$R_{DS(on)}$ [max] @ 10 V (m Ω)	I_D [max] @ 25 °C (A)	$R_{th(j-mb)}$ [max] (K/W)
LFPAK56; Power-SO8 (SOT669) 	BUK6Y10-30P	30	10	80	1.4
	BUK6Y19-30P	30	19	45	2.3
	BUK6Y24-40P	40	14	39	2.3
	BUK6Y14-40P	40	15	64	1.4
	BUK6Y33-60P	60	33	38	1.4
	BUK6Y61-60P	60	61	22	2.3

Small-signal automotive MOSFETs – Low $R_{DS(on)}$

Package											
Size (mm)											
P_{tot} (mW)											
Polarity	V_{DS} (V)	V_{GS} (V)	I_D (A)	$V_{GS(th)}$ min (V)	$V_{GS(th)}$ max (V)	ESD protection (kV)	$R_{DS(on)}$ typ (m Ω) @ V_{GS} =				
							10 V	4.5 V	2.5 V	1.8 V	
N-channel	20	8	7	0.4	1	1	-	15	18	-	
			4.7	0.45	1	2	-	24	29	40	
			2.8	0.4	1	2	-	64	78	110	
		12	12.9	0.4	0.9	2	-	10	12	16	
			11.4	0.4	0.9	2	-	12	15	20	
			7.3	0.6	1.3	2	-	13	17	-	
	30	8	6	0.4	0.9	1	-	13	23	39	
			11.3	0.4	0.9	2	-	13	14	17	
			5	0.4	0.9	2	-	28	32	37	
		12	4	0.75	1.25	2	-	55	72	-	
			8.3	0.6	1.25	1	-	60	98	-	
			5.5/22	1	2.5	2	17	22	-	-	
		20	3.9/17	1	2.5	2	30	39	-	-	
			3.7/11	1	2.5	2	54	70	-	-	
			19	1.4	2.1	-	18	22	-	-	
	40	20	6.2/19	1.3	2.7	-	17	22	-	-	
			19	2.4	4	-	18	-	-	-	
			5/18	1.5	2.5	2	25	30	-	-	
			2.7	1	2.5	1	64	79	-	-	
			9	1	2.5	1	85	112	-	-	
			2.5/5.7	1	2.5	1	95	120	-	-	
	60	20	4.2/13	1.3	2.7	-	32	38	-	-	
			4.7/14	2.4	4	-	36	-	-	-	
			3.5/11	1.3	2.7	2	37	45	-	-	
			11	1.3	2.7	2	59	70	-	-	
			2.2/7.4	1.3	2.7	2	88	104	-	-	
			1.5/5.7	1.3	2.7	2	176	196	-	-	
	80	20	0.8	1.3	2.7	2	300	332	-	-	
10			1.3	2.7	2	72	84	-	-		
7			1.3	2.7	2	175	195	-	-		
100	20	1.1	1.3	2.7	2	345	390	-	-		
		1.5	1.3	2.7	2	285	301	-	-		
P-channel	12	12	11.8	0.47	0.9	-	-	15	17	21	
	20	8	5.6	0.45	0.95	2	-	27	38	50	
			2	0.4	0.9	-	-	97	118	145	
			2	0.5	1.1	-	-	100	155	210	
			2.3	0.45	0.95	-	-	120	150	200	
		12	10.3	0.47	0.9	2	-	19	22	28	
			5	0.47	0.9	2.3	-	28	31	36	
			5.3	0.75	1.25	2	-	28	42	-	
			5	0.6	1.3	1	-	38	-	-	
			5.2/18	0.6	1.3	1	-	38	64	-	
			5	0.47	0.9	2	-	39	45	56	
			5.7	0.75	1.25	2	-	41	56	-	
			3.5	0.75	1.25	-	-	48	71	-	
			4.7	0.6	1.3	1	-	50	78	-	
			4.4	0.6	1.3	-	-	55	-	-	
	3.3	0.75	1.25	2	-	67	99	-			
	2.4	1	2.5	2	-	97	147	-			
	6.7	1	1.3	1	-	110	189	-			
	30	20	8.8	1	2.5	-	24	32	-	-	
			4.2	1	3	2	35	47	-	-	
	40	20	1.5	1	2.5	1	180	220	-	-	
			14	1.4	2.7	-	30	45	-	-	
	60	20	8	1.9	3.2	-	95	125	-	-	
			3	1.9	3.2	-	130	180	-	-	

SOT457 (SC-74)	SOT23	DFN2020MD-6 (SOT1220)	DFN2020D-6 (SOT1118D)	DFN1010D-3 (SOT1215)
				
2.9 x 1.5 x 1.0	2.9 x 1.3 x 1.0	2.0 x 2.0 x 0.65	2.0 x 2.0 x 0.65	1.1 x 1.0 x 0.37
600	250	1250	1250	1000
	PMV15UNEA PMV28UNEA PMV65UNEA	PMPB10XNEA PMPB12UNEA		
	PMV13XNEA	BUK4D16-20 PMPB20XNEA		
	PMV20XNEA PMV19XNEA	PMPB13XNEA PMPB29XNEA		
	PMV50XNEA		PMDPB56XNEA	
PMN25ENEA	PMV15ENEA PMV28ENEA PMV52ENEA	BUK4D60-30 BUK6D22-30E BUK6D38-30E BUK6D72-30E BUK9D23-40E BUK6D23-40E BUK7D25-40E BUK6D30-40E		
PMN20ENA		BUK6D120-40E		
PMN30ENEA	PMV30ENEA PMV60ENEA			
PMN40ENA PMN40SNA PMN55ENEA	PMV130ENEA	BUK6D43-60E BUK7D36-60E BUK6D56-60E BUK6D77-60E		
PMN120ENEA PMN230ENEA	PMV88ENEA PMV164ENEA PMV450ENEA	BUK6D125-60E BUK6D210-60E		
		BUK6D81-80E BUK6D230-80E		
PMN280ENEA	PMV280ENEA	BUK6D335-100E PMPB15XPA		PMXB360ENEA
	PMV27UPEA BSH205G2A NX2301P BSH205G2			
		PMPB20XPEA PMPB29XPEA		
PMN30XPEA PMN30XPA	PMV30XPEA PMV28XPEA PMV30XPA	BUK4D38-20P PMPB43XPEA		
PMN42XPEA PMN48XPA PMN40XPEA PMN48XPA2	PMV48XPA PMV48XPA2 PMV65XPEA PMV100XPEA			
		BUK4D110-20P PMPB27EPA		
	PMV50EPEA PMV250EPEA			
		BUK6D43-40P BUK6D120-60P		
PMN100EPA	PMV100EPA			



Small-signal automotive MOSFETs – High $R_{DS(on)}$

Package											
Size (mm)											
P _{tot} (mW)											
Polarity	V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th)} min (V)	V _{GS(th)} max (V)	ESD protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =				
							10 V	4.5 V	2.5 V	1.8 V	
N	30	8	0.4	0.6	1.1	2	-	1000	1400	2000	
	60	16	0.72	1.3	2.6	1	850	1100	-	-	
		20	0.36	0.9	1.5	-	900	1000	-	-	
			0.36	0.48	1.6	1.5	1000	1100	1400	-	
			0.3	1	2.5	2	1000	1300	-	-	
0.2	0.8	1.5	yes	2700	3000	4000	-				
P	30	8	0.23	0.6	1.1	2	-	2800	5300	-	
	50	12	0.27	1.1	2.1	1	7500	8500	-	-	
		20	0.2	1.1	2.1	1	5300	6000	-	-	





Small-signal automotive MOSFETs – Dual


Package											
Size (mm)											
P _{tot} (mW)											
Polarity	V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th)} min (V)	V _{GS(th)} max (V)	ESD protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =				
							10 V	4.5 V	2.5 V	1.8 V	
N	30	12	4	0.75	1.25	2	-	55	72	-	

Small-signal MOSFETs - Complementary

Package	Type	Polarity	V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GSth} min (V)	V _{GSth} max (V)	
SOT363 (SC-88) (2.0 x 1.25 x 0.95) 	NX3008CBKS	N	30	8	0.35	0.6	1.1	
		P	30	8	0.2	0.6	1.1	
SOT363 (SC-88) (2.0 x 1.25 x 0.95) 	PMGD290UCEA	N	20	8	725	1	1	
		P	20	8	500	1	1	

Types in **bold** represent new products

SOT23	SOT363 (SC-88)	SOT323 (SC-70)	DFN1110D-3 (SOT8015)
			
2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95	2.0 x 1.25 x 0.95	1.1 x 1.0 x 0.47
250	300	200	420
NX3008NBK	NX3008NBKS	NX3008NBKW	2N7002KQB
BSS138P	BSS138PS	BSS138PW	
BSS138BK	BSS138BKS	BSS138BKW	
2N7002BK	2N7002BKS	2N7002BKW	
BSS138AKA			
NX3008PBK	NX3008PBKS	NX3008PBKW	BSS84AKB
BSS84AK	BSS84AKS	BSS84AKW	

DFN2020D-6 (SOT1118D)

2.0 x 2.0 x 0.65
1250
PMDPB56XNEA




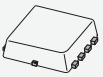

t_{on} typ (ns)	t_{off} typ (ns)	Q_G typ (nC)	ESD protection (kV)	$R_{DS(on)}$ typ (m Ω) @ $V_{GS} =$					
				10 V	4.5 V	2.5 V	1.8 V	1.5 V	1.2 V
26	88	0.52	2	-	1000	1400	2000	-	-
49	103	0.55	2	-	2800	5300	-	-	-
6	86	0.15	2	-	290	420	1	-	-
18	80	0.18	2	-	670	1	2	-	-

N-channel 25 V - 30 V Power MOSFETs

Package	Type number	V _{DS} [max] (V)	R _{DS(on)} [max] @ V _{GS} = 10 V (mΩ)	R _{DS(on)} [max] @ V _{GS} = 4.5 V or 5 V (mΩ)	I _D [max] (A)	Q _{G(tot)} [typ] (nC)
TO-220 (SOT78)	PSMN1R1-30PL	30	1.3	1.6	120	118
	PSMN1R8-30PL	30	1.8	2.3	100	83
	PSMN2R0-30PL	30	2.1	2.8	100	55
	PSMN2R7-30PL	30	2.7	3.6	100	32
	PSMN3R4-30PL	30	3.4	4.1	100	31
	PSMN4R3-30PL	30	4.3	6.2	100	19
	PSMN017-30PL	30	17	23	32	5.1
D ² PAK (SOT404)	PSMN022-30PL	30	22	34	30	4.4
	PSMNR90-30BL	30	1	1.4	120	118
	PSMN1R5-30BLE	30	1.5	1.85	120	108
	PSMN1R6-30BL	30	1.9	2.2	100	101
	PSMN2R0-30BL	30	2.1	2.9	100	55
	PSMN2R7-30BL	30	3	3.7	100	32
	PSMN3R4-30BL	30	3.3	3.8	100	31
	PSMN3R4-30BLE	30	3.4	5	120	37
	PSMN4R3-30BL	30	4.1	5.2	100	19
	PSMN017-30BL	30	17	23	32	5.1
LFPAK56E (SOT1023)	PSMN022-30BL	30	22	30	30	4.4
	PSMNR51-25YLH	25	0.57	0.82	380	53
	PSMN0R7-25YLD	25	0.74	0.92	300	50.9
	PSMN1R2-25YL	25	1.2	1.9	100	50.6
	PSMNR58-30YLH	30	0.67	0.9	380	55
	PSMN0R9-30YLD	30	0.87	1.1	300	51
LFPAK56; Power-SO8 (SOT669)	PSMN1R3-30YL	30	1.3	2	100	46.6
	PSMNR56-25YLE	25	0.56		320	54
	PSMNR60-25YLH	25	0.7	1.02	300	43
	PSMN0R9-25YLD	25	0.86	1.2	300	41.5
	PSMNR89-25YLE	25	0.89		270	54
	PSMNR98-25YLE	25	0.98		255	27
	PSMN1R0-25YLD	25	1.02	1.4	100	33.2
	PSMN1R1-25YLC	25	1.15	1.5	100	39
	PSMN1R2-25YLD	25	1.15	1.7	100	28
	PSMN1R2-25YLC	25	1.3	1.7	100	31
	PSMN1R6-25YLE	25	1.6			
	PSMN1R7-25YLD	25	1.68	2.4	100	21.5
	PSMN2R0-25YLD	25	2	2.9	100	15.7
	PSMN2R9-25YLC	25	3.15	4.1	100	16
	PSMN4R0-25YLC	25	4.5	5.8	84	10.9
	PSMN5R4-25YLD	25	5.4	8.4	70	5.7
	PSMN6R0-25YLD	25	6.03	10	61	4.9
	PSMN6R0-25YLB	25	6.1	7.9	73	9
	PSMNR67-30YLE	30	0.67		365	52
	PSMNR70-30YLH	30	0.82	1.1	300	46
	PSMNR82-30YLE	30	0.82		330	41
	PSMN1R0-30YLE	30	1		275	33
	PSMN1R0-30YLD	30	1.02	1.3	300	38.2
	PSMN1R1-30YLE	30	1.1		265	28
	PSMN1R0-30YLC	30	1.15	1.4	100	50
	PSMN1R2-30YLD	30	1.24	1.6	100	32
	PSMN1R2-30YLC	30	1.25	1.7	100	38
	PSMN1R4-30YLD	30	1.42	1.9	100	27.6
	PSMN1R5-30YL	30	1.5	1.9	100	36.2
	PSMN1R5-30YLC	30	1.55	2.1	100	30
	PSMN1R7-30YL	30	1.7	2.1	100	36.2
	PSMN2R0-30YLD	30	2	2.5	100	21.8
	PSMN2R0-30YL	30	2	2.6	100	30
	PSMN2R0-30YLE	30	2	3.5	100	41
	PSMN2R1-30YLE	30	2		160	17
	PSMN2R2-30YLC	30	2.15	2.8	100	26
	PSMN2R4-30YLD	30	2.4	3.1	100	18
	PSMN2R5-30YL	30	2.4	3.2	100	27
	PSMN2R6-30YLC	30	2.8	3.7	100	18
	PSMN3R0-30YL	30	3	4	100	21
PSMN3R0-30YLD	30	3	4	100	14.5	
PSMN3R5-30YL	30	3.5	4.6	100	19	
PSMN4R0-30YL	30	4	5.3	100	17.6	

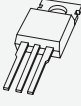





N-channel 25 V - 30 V Power MOSFETs

Types in **bold red** are in development

Package	Type number	V _{DS} [max] (V)	R _{DS(on)} [max] @ V _{GS} = 10 V (mΩ)	R _{DS(on)} [max] @ V _{GS} = 4.5 V or 5 V (mΩ)	I _D [max] (A)	Q _{G(tot)} [typ] (nC)
LFPAK56; Power-SO8 (SOT669) 	PSMN4R0-30YLD	30	4	5.5	95	9.6
	PSMN4R1-30YLC	30	4.35	5.7	92	11
	PSMN4R5-30YLC	30	4.8	6.1	84	9.6
	PSMN5R0-30YL	30	5	6.7	91	14.1
	PSMN6R0-30YL	30	6	7.9	79	11
	PSMN6R0-30YLD	30	6	8.4	66	6.7
	PSMN6R1-30YLD	30	6.1	8.4	66	6.4
	PSMN6R0-30YLB	30	6.5	8.1	71	9
	PSMN7R0-30YL	30	7	9.1	76	10
	PSMN7R0-30YLC	30	7.1	8.9	61	7.9
	PSMN7R5-30YLD	30	7.5	10	51	5.8
	PSMN9R1-30YL	30	9.1	14	57	8.4
	PSMN9R5-30YLC	30	9.8	12	44	5
PSMN011-30YLC	30	11.6	15	37	4.9	
PSMN013-30YLC	30	13	17	32	4	
LFPAK56-UL2595 (SOT1023A) 	PSMN0R9-30ULD	30	0.87	1.09	300	109
LFPAK33 (SOT1210) 	PSMN1R5-25MLH	25	1.81	2.7	150	17
	PSMN2R0-25MLD	25	2	3.1	70	15.9
	PSMN2R8-25MLC	25	2.8	3.8	70	16.3
	PSMN3R5-25MLD	25	3.51	5.4	70	8.7
	PSMN3R9-25MLC	25	4.15	5.6	70	9.7
	PSMN5R3-25MLD	25	5.3	8.4	70	5.9
	PSMN6R1-25MLD	25	6.13	10	60	4.9
	PSMN9R0-25MLC	25	8.65	11	55	5.4
	PSMN1R6-30MLH	30	1.9	2.6	160	41
	PSMN1R8-30MLH	30	2.1	2.9	150	17
	PSMN2R4-30MLD	30	2.4	3.2	70	16
	PSMN3R0-30MLC	30	3.15	4.1	70	16.1
	PSMN4R2-30MLD	30	4.3	5.7	70	9.2
	PSMN4R4-30MLC	30	4.65	6	70	10.6
	PSMN6R4-30MLD	30	6.4	8.3	66	6.5
	PSMN7R0-30MLC	30	7	9	67	8.2
	PSMN7R5-30MLD	30	7.6	10	57	5.8
	PSMN9R8-30MLC	30	9.8	12	50	5
PSMN013-30MLC	30	13	17	39	3.7	
PSMN020-30MLC	30	18	27	31.8	4.6	
MLPAK33 (SOT8002) 	PXN6R2-25QL	25	6.2	8.5	22.3	8.1
	PXN7R7-25QL	25	7.7	10.3	19	5.3
	PXN2R4-30QL	30	2.4			
	PXN3R0-30QL	30	3			
	PXN4R2-30QL	30	4.2			
	PXN4R7-30QL	30	4.7	6	25	14.7
	PXN5R0-30QL	30	5			
	PXN5R4-30QL	30	5.4	7.2	22	17.4
	PXN6R5-30QL	30	6.5			
	PXN6R7-30QL	30	6.7	8.6	21.5	7.9
	PXN8R3-30QL	30	8.3	11.1	18.3	5.1
	PXN8R5-30QL	30	8.5			
	PXN9R0-30QL	30	9.1	11	17.3	13.8
	PXN010-30QL	30	10.4	13.6	16.5	4
	PXN011-30QL	30	11			
	PXN017-30QL	30	17.4	23.1	12	2.5
	PXN018-30QL	30	18	23	11.3	7.2
MLPAK56 (SOT8038) 	PXN0R9-30RL	30	0.9			
	PXN1R2-30RL	30	1.2			
	PXN1R6-30RL	30	1.6			
	PXN2R0-30RL	30	2			
	PXN2R5-30RL	30	2.4			
	PXN3R0-30RL	30	3			
	PXN4R2-30RL	30	4.2			
PXN6R5-30RL	30	6.5				

N-channel 40 V - 60 V Power MOSFETs

Types in **bold red** are in development.

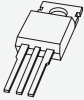

Package	Type number	V _{DS} [max] (V)	R _{DS(on)} [max] @ V _{GS} = 10 V (mΩ)	R _{DS(on)} [max] @ V _{GS} = 4.5 V or 5 V (mΩ)	I _D [max] (A)	Q _{c(tot)} [typ] (nC)
TO-220 (SOT78) 	PSMN1R5-40PS	40	1.6		150	136
	PSMN1R9-40PL	40	1.7	1.9	150	230
	PSMN2R1-40PL	40	2.2	2.6	150	168.9
	PSMN2R2-40PS	40	2.1		100	110
	PSMN2R8-40PS	40	2.8		100	71
	PSMN4R5-40PS	40	4.6		100	35
	PSMN8R0-40PS	40	7.6		77	17
	PSMN2R0-60PSR	60	2		120	137
	PSMN2R0-60PS	60	2.2		120	137
	PSMN2R5-60PL	60	2.6	3.1	150	223
	PSMN2R6-60PS	60	2.6		150	140
	PSMN3R0-60PS	60	3		100	130
	PSMN3R3-60PL	60	3.4	3.8	130	175
	PSMN3R9-60PS	60	3.9		130	103
	PSMN4R2-60PL	60	3.9	4.3	130	151
	PSMN4R6-60PS	60	4.6		100	70.8
	PSMN7R6-60PS	60	7.8		92	38.7
PSMN015-60PS	60	15		50	20.9	
LFPK88 (SOT1235) 	PSMNR55-40SSH	40	0.55		500	267
	PSMNR70-40SSH	40	0.7		425	144
	PSMN1R0-40SSH	40	1		325	98
	PSMNR90-50SLH	50	0.92		410	228
	PSMN1R2-55SLH	55	0.97		330	226
D ² PAK (SOT404) 	PSMN1R1-40BS	40	1.3		120	136
	PSMN2R2-40BS	40	2.2		100	130
	PSMN2R8-40BS	40	2.9		100	71
	PSMN4R5-40BS	40	4.5		100	35
	PSMN8R0-40BS	40	7.6		77	21
	PSMN1R7-60BS	60	2		120	137
	PSMN3R0-60BS	60	3.2		100	130
	PSMN4R6-60BS	60	4.4		100	70.8
PSMN7R6-60BS	60	7.8		92	38.7	
PSMN015-60BS	60	15		50	20.9	
I ² PAK (SOT226) 	PSMN2R0-60ES	60	2.2		120	137
LFPK56E (SOT1023) 	PSMNR90-40YLH	40	0.94	1.2	300	54
	PSMN1R0-40YSH	40	1		290	87
	PSMN1R0-40YLD	40	1.1	1.4	280	127
	PSMN1R5-50YLH	50	1.6		220	51
	PSMN2R0-55YLH	55	2.24		200	50
LFPK56; Power-SO8 (SOT669) 	PSMNR90-40YSN	40	0.9		220	125
	PSMN1R4-40YLD	40	1.4	1.85	240	96
	PSMN1R5-40YSD	40	1.5		240	71
	PSMN1R7-40YLB	40	1.7			
	PSMN1R7-40YLD	40	1.8	2.3	200	78
	PSMN1R8-40YLC	40	1.8	2.1	100	96
	PSMN1R9-40YSD	40	1.9		200	57
	PSMN1R9-40YSB	40	1.9			
	PSMN2R0-40YLB	40	2			
	PSMN2R0-40YLD	40	2.1	2.7	180	66
	PSMN2R2-40YSB	40	2.2			
	PSMN2R2-40YSD	40	2.2		180	45
	PSMN2R5-40YLB	40	2.5			
	PSMN2R5-40YLD	40	2.6	3.3	160	56
	PSMN2R8-40YSB	40	2.8			
PSMN2R6-40YS	40	2.8				
PSMN2R8-40YSD	40	2.8		160	44	
PSMN3R2-40YLB	40	3.2				

N-channel 40 V - 60 V Power MOSFETs

Types in **bold red** are in development, types in **bold** represent new products


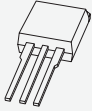


Package	Type number	V _{DS} [max] (V)	R _{DS(on)} [max] @ V _{GS} = 10 V (mΩ)	R _{DS(on)} [max] @ V _{GS} = 4.5 V or 5 V (mΩ)	I _D [max] (A)	Q _{c(tot)} [typ] (nC)
LFPAK56; Power-SO8 (SOT669)	PSMN3R3-80YSF	40	3.3			
	PSMN3R2-40YLD	40	3.3	4.2	120	41
	PSMN3R3-40YS	40	3.3			
	PSMN3R5-40YSB	40	3.5			
	PSMN3R5-40YSD	40	3.5		120	31
	PSMN4R0-40YS	40	4.2			
	PSMN5R8-40YS	40	5.7		90	23.8
	PSMN8R3-40YS	40	8.6		70	20
	PSMN014-40YS	40	14		46	10
	PSMN4R0-60YS	60	4		100	56
	PSMN4R1-60YL	60	4.1	4.8	100	103
	PSMN5R2-60YL	60	5.2	6	100	78.4
	PSMN5R5-60YS	60	5.2		100	56
	PSMN5R6-60YL	60	5.6	7.2	100	66.8
	PSMN7R0-60YS	60	6.4		89	45
	PSMN7R5-60YL	60	7.5	8.7	86	60.6
	PSMN8R5-60YS	60	8		76	39
	PSMN012-60YS	60	11		59	28.4
	LFPAK56D (SOT1205)	PSMN013-60YL	60	13	15	53
PSMN030-60YS		60	15		29	13
PSMN017-60YS		60	16		44	20
PSMN4R2-40VSH		40	4		98	26
PSMN6R8-40HS		40	6.8		40	28.9
PSMN8R0-40HL		40	8	9.4	30	15.7
PSMN8R5-40HS		40	8.5		30	21.8
PSMN014-40HLD		40	13.6	16.9	42	13
PSMN013-40VLD		40	14	17	42	14
PSMN9R3-60HS		60	9.3		40	34.2
PSMN013-60HS		60	10		40	30.1
PSMN011-60HL		60	10.7	11.5	35	24.5
PSMN012-60HL		60	11.2	12.5	40	22.4
PSMN013-60HL	60	11.2	12.5	40	22.4	
PSMN014-60HS	60	14		30	23.6	
LFPAK56-UL2595 (SOT1023A)	PSMN1R0-40ULD	40	1.1	1.4	280	59
LFPAK33 (SOT1210)	PSMN3R3-40MLH	40	3.3	4.2	118	17
	PSMN3R3-40MSH	40	3.3		118	30
	PSMN4R3-40MLH	40	4.3	5.5	95	31
	PSMN4R3-40MSH	40	4.3		95	23
	PSMN5R0-40MLH	40	5	6.4	85	28
	PSMN5R0-40MSH	40	5		85	21
	PSMN6R7-40MLD	40	6.7	8.5	50	10
	PSMN6R7-40MSD	40	6.7		50	16
	PSMN8R5-40MLD	40	8.5	11	60	19
	PSMN8R5-40MSD	40	8.5		60	13.4
	PSMN011-60ML	60	11	13	61	37.2
	PSMN011-60MS	60	11		61	23
MLPAK33 (SOT8002)	PXN6R0-60QL	60	6			
	PXN7R1-60QL	60	7.1			
	PXN8R0-60QL	60	8			
	PXN012-60QL	60	12	18	42	10
MLPAK56 (SOT8038)	PXN1R7-60RL	60	1.7			
	PXN2R0-60RL	60	2.0			
	PXN2R1-60RS	60	2.1			
	PXN2R4-60RS	60	2.4			
	PXN2R4-60RL	60	2.4			
	PXN2R8-60RL	60	2.8			
	PXN3R2-60RL	60	3.2			
PXN5R0-60RL	60	5.0				
PXN6R8-60RL	60	6.8				

N-channel 75 V - 200 V Power MOSFETs

Package	Type number	V_{DS} [max] (V)	$R_{DS(on)}$ [max] @ $V_{GS} = 10$ V (m Ω)	$R_{DS(on)}$ [max] @ $V_{GS} = 4.5$ V or 5 V (m Ω)	I_D [max] (A)	$Q_{G(tot)}$ [typ] (nC)
TO-220 (SOT78) 	PSMN3R3-80PS	80	3.3		120	139
	PSMN3R5-80PS	80	3.5		120	139
	PSMN4R4-80PS	80	4.1		100	112
	PSMN4R3-80PS	80	4.3		120	111
	PSMN5R0-80PS	80	4.7		100	87
	PSMN6R5-80PS	80	6.9		100	71
	PSMN8R7-80PS	80	8.7		90	52
	PSMN012-80PS	80	11		74	36
	PSMN017-80PS	80	17		50	26
	PSMN4R3-100PS	100	4.3		120	170
	PSMN4R8-100PSE	100	4.8		120	196
	PSMN5R0-100PS	100	5		120	170
	PSMN5R6-100PS	100	5.6		100	141
	PSMN7R0-100PS	100	6.8		100	125
	PSMN7R8-100PSE	100	7.8		100	128
	PSMN8R5-100PS	100	8.5		100	111
	PSMN9R5-100PS	100	9.6		98	45
	PSMN013-100PS	100	13		68	59
	PSMN016-100PS	100	16		57	49
	PSMN027-100PS	100	27		53	21
	PSMN034-100PS	100	35		32	23.8
	PHP23NQ11T	110	70		23	22
	PHP18NQ11T	110	90		18	21
	PSMN030-150P	150	30		55.5	98
	PHP28NQ15T	150	65		28.5	24
	PSMN057-200P	200	57		39	96
PHP33NQ20T	200	77		32.7	32.2	
PHP20NQ20T	200	130		20	65	
D ² PAK (SOT404) 	PSMN2R8-80BS	80	3		120	139
	PSMN3R3-80BS	80	3.5		120	111
	PSMN4R4-80BS	80	4.5		100	125
	PSMN5R0-80BS	80	5.1		100	101
	PSMN6R5-80BS	80	6.9		100	71
	PSMN8R7-80BS	80	8.7		90	52
	PSMN012-80BS	80	11		74	36
	PSMN017-80BS	80	17		50	26
	PSMN3R8-100BS	100	3.9		120	170
	PSMN3R7-100BSE	100	3.95		120	176
	PSMN4R8-100BSE	100	4.8		120	196
	PSMN5R6-100BS	100	5.6		100	141
	PSMN7R0-100BS	100	6.8		100	125
	PSMN7R6-100BSE	100	7.6		75	128

N-channel 75 V - 200 V Power MOSFETs

Types in **bold red** are in development.

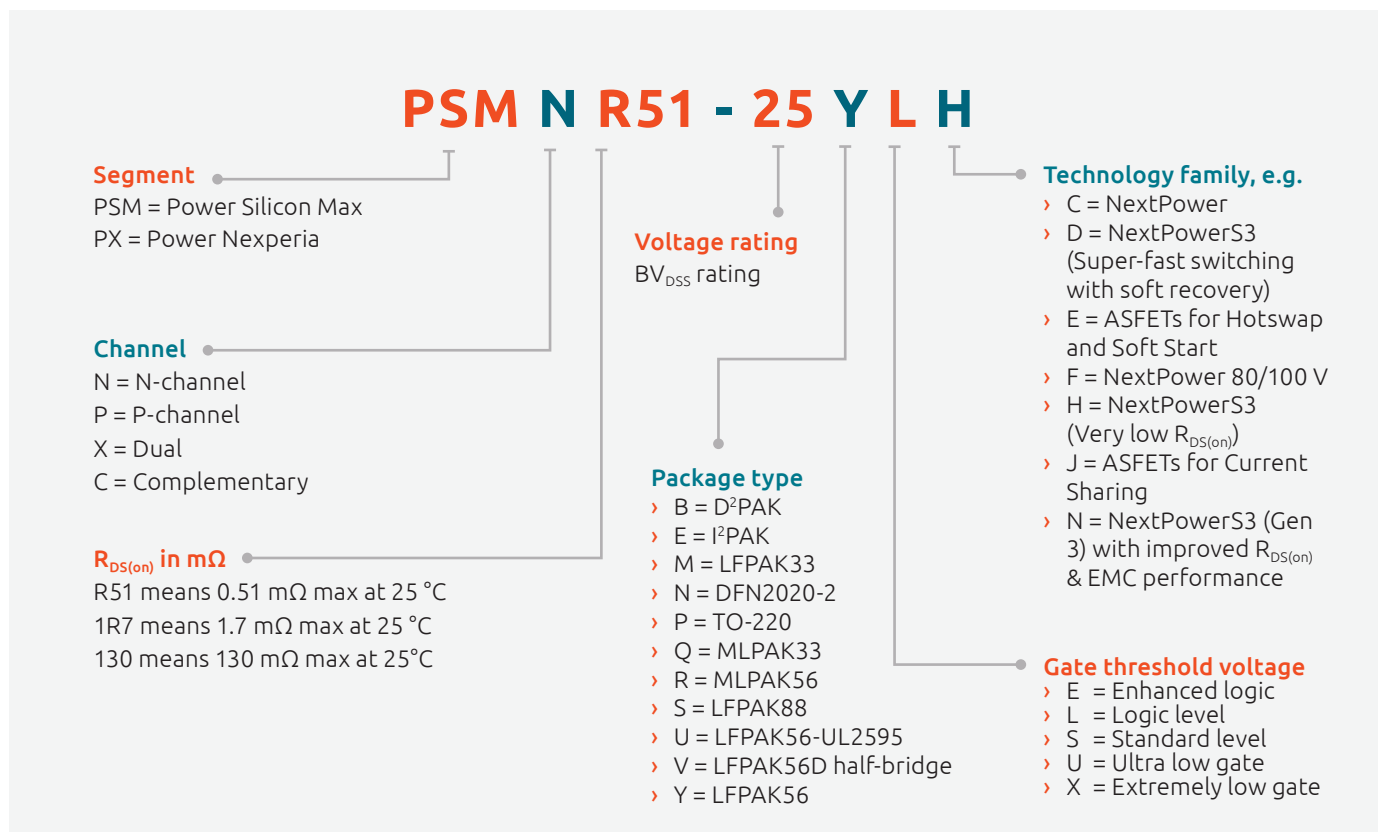
Package	Type number	V _{DS} [max] (V)	R _{DS(on)} [max] @ V _{GS} = 10 V (mΩ)	R _{DS(on)} [max] @ V _{GS} = 4.5 V or 5 V (mΩ)	I _D [max] (A)	Q _{c(tot)} [typ] (nC)
D ² PAK (SOT404) 	PSMN8R9-100BSE	100	9.4		108	128
	PSMN9R5-100BS	100	9.6		89	82
	PSMN013-100BS	100	14		68	59
	PSMN016-100BS	100	16		57	49
	PSMN027-100BS	100	27		37	30
	PSMN034-100BS	100	35		32	23.8
	PHB45NQ15T	150	42		45.1	32
	PSMN057-200B	200	57		39	96
	PHB33NQ20T	200	77		32.7	32.2
I ² PAK (SOT226) 	PSMN5R0-100ES	100	5		120	170
	PSMN7R0-100ES	100	6.8		100	125
	PSMN8R5-100ES	100	8.5		100	111
	PSMN7R8-120ES	120	7.9		70	167
LFPAK56E (SOT1023) 	PSMN3R5-80YSF	80	3.5		150	75
	PSMN4R2-80YSE	80	4.2		170	73
	PSMN4R2-80YSJ	80	4.2			
	PSMN3R9-100YSF	100	4		120	80
	PSMN4R8-100YSE	100	4.8		120	80
	PSMN4R8-100YSJ	100	4.8			
LFPAK56; Power-SO8 (SOT669) 	PSMN4R5-80YSF	80	4.5			
	PSMN8R2-80YS	80	8.5		82	55
	PSMN010-80YL	80	10	11	84	84.7
	PSMN011-80YS	80	11		67	45
	PSMN013-80YS	80	12.9		60	37
	PSMN014-80YL	80	14	15	62	56.9
	PSMN018-80YS	80	18		45	26
	PSMN025-80YL	80	25	27	37	34.3
	PSMN026-80YS	80	28		34	20
	PSMN041-80YL	80	41	45	25	21.9
	PSMN045-80YS	80	45		24	12.5
	PSMN5R5-100YSF	100	5.6		115	64
	PSMN5R6-100YSF	100	5.6		158	63
	PSMN6R9-100YSF	100	6.9		128	51
	PSMN7R2-100YSF	100	6.9			
	PSMN8R7-100YSF	100	8.7		100	39
	PSMN9R8-100YSF	100	10.2			
	PSMN011-100YSF	100	10.9		79.5	34.3
	PSMN012-100YL	100	12	12	85	118
	PSMN012-100YS	100	12		60	64
	PSMN012-100YSF	100	12			
	PSMN013-100YSE	100	13		82	75
	PSMN015-100YL	100	15	15	69	86.3
	PSMN015-100YSF	100	16			
	PSMN016-100YS	100	16		51	54

N-channel 75 V - 200 V Power MOSFETs



Types in **bold red** are in development, types in **bold** represent new products

Package	Type number	V_{DS} [max] (V)	$R_{DS(on)}$ [max] @ $V_{GS} = 10$ V (m Ω)	$R_{DS(on)}$ [max] @ $V_{GS} = 4.5$ V or 5 V (m Ω)	I_D [max] (A)	$Q_{G(tot)}$ [typ] (nC)
LFPAK56; Power-SO8 (SOT669)	PSMN019-100YL	100	19	19	56	72.4
	PSMN021-100YL	100	21	22	49	65.6
	PSMN020-100YS	100	21		43	41
	PSMN028-100YS	100	28		42	33
	PSMN038-100YL	100	38	38	30	39.2
	PSMN039-100YS	100	39		28.1	23
	PSMN069-100YS	100	72		17	14
	PSMN059-150Y	150	59		43	27.9
	PSMN102-200Y	200	102		21.5	30.7
LFPAK56D (SOT1205)	PSMN025-100HS	100	24.5		29.5	38.1
	PSMN029-100HL	100	27.0	29.0	30	29.6
	PSMN028-100HS	100	27.5		29	34.0
	PSMN033-100HL	100	31	33	26	27.3
	PSMN038-100HS	100	37.6		21.4	25.9
	PSMN045-100HL	100	42	45	21	18.5
LFPAK33 (SOT1210)	PSMN040-100MSE	100	37		30	30
	PSMN041-100MSE	100	42		25	10.5
	PSMN072-100MSE	100	76		16	4.9
	PSMN075-100MSE	100	71		18	16.4
LFPAK88 (SOT1235)	PSMN1R8-80SSF	80	1.8			148
	PSMN1R9-80SSE	80	1.9			155
	PSMN1R9-80SSJ	80	1.9			
	PSMN2R3-80SSF	80	2.3			
	PSMN2R5-80SSE	80	2.5			
	PSMN2R5-80SSJ	80	2.5			
	PSMN2R8-80SSF	80	3			
	PSMN2R0-100SSF	100	2.07		267	161
	PSMN2R3-100SSE	100	2.28		255	161
	PSMN2R3-100SSJ	100	2.3			
	PSMN2R5-100SSE	100	2.5			
	PSMN2R6-100SSF	100	2.6		200	127
	PSMN2R9-100SSJ	100	2.9			
	PSMN3R3-100SSF	100	3.3		180	106
MLPAK33 (SOT8002-2)	PXN011-100QL	100	11			
	PXN011-100QS	100	11			
	PXN012-100QL	100	12			
	PXN012-100QS	100	12			
	PXN020-100QL	100	20			
	PXN028-100QL	100	28			
MLPAK56 (SOT8038)	PXN040-100QL	100	40			
	PXN3R5-100RL	100	3.5			
DFN2020M-6 (SOT1220-2)	PXN3R5-100RS	100	3.5			
	PSMN047-100NSE	100	53		17	7
	PSMN071-100NSE	100	81			

Power MOSFETs nomenclature





P-channel Power MOSFETs



Package name	Type number	V _{DS} [max] (V)	R _{DS(on)} [max] @ 10 V (mΩ)	I _D [max] @ 25 °C (A)	R _{th(j-mb)} [max] (K/W)
LFPAK56 (Power-SO8) 	PSMP033-60YE	60	33	38	1.4
	PSMP061-60YE		61	22	2.3
MLPAK33 (SOT8002-2) 	PXP3R7-12QU	12		31	
	PXP8R3-20QX	20	8	20	
	PXP011-20QX		11	17	
	PXP018-20QX		18	14	
	PXP020-20QX			12	
	PXP6R1-30QL	30	6	22	
	PXP6R7-30QL		7	21	
	PXP9R1-30QL		9	18	
	PXP012-30QL		12.8	15	
	PXP013-30QL		13	15	
	PXP015-30QL	15.8	12.8		
	PXP400-100QS	100	400	1.4	12
PXP1500-100QS	1500		0.7	20.5	

Small-signal MOSFETs



Small-signal MOSFETs in DFN1006 and DFN1006B packages

Package											DFN1006-3 (SOT883)	DFN1006B-3 (SOT883B)					
																	
Size (mm)											1.0 x 0.6 x 0.48	1.0 x 0.6 x 0.37					
P _{tot} (mW)											250	250					
Polarity	V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th)} min (V)	V _{GS(th)} max (V)	t _{on} typ (ns)	t _{off} typ (ns)	Q _C typ (nC)	ESD protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =							
										10 V	4.5 V	2.5 V	1.8 V	1.5 V	1.2 V		
N-channel	20	8	1.9	0.45	0.95	5.3	16	1.6	2	-	120	160	210	270	-	PMZ130UNE	
			1.6	0.45	0.95	5.3	16	1.6	2	-	170	200	240	300	-		PMZB150UNE
			1	0.5	0.95	6	86	0.45	2	-	270	360	470	600	-	PMZ290UNE2	PMZB290UNE2
			0.6	0.45	0.95	5.6	19	0.4	1	-	470	620	845	1125	2210	PMZ600UNE	PMZB600UNE
			1.5	0.45	0.95	5	17	1.6	2	-	210	240	270	300	-	PMZ200UNE	PMZB200UNE
			1	0.45	0.95	4	12	0.8	2	-	390	460	30	610	-	PMZ390UNE	PMZB390UNE
	30	8	0.59	0.45	0.95	4	12	0.6	2	-	550	660	770	890	-	PMZ550UNE	PMZB550UNE
			0.35	0.4	0.9	3	17	0.1	2	-	2800	3000	-	-	-	NX5008NBKM	
			0.45	1.1	2.1	5	12	0.5	2	1000	1300	-	-	-	-	2N700BKM	2N7002BKMB
			0.35	1.1	2.1	4.7	6.9	1	2	2200	2500	-	-	-	-	NX7002BKM	NX7002BKMB
			0.38	0.5	1.5	7.9	12.5	0	2	2300	2900	4800	-	-	-	NX138BKM	
			0.27	0.8	1.5	1	3	0		3		4				NX138AKM	
P-channel	20	8	1.4	0.45	0.95	4	26	1.3	1.8	-	330	420	520	-	-	PMZ350UPE	PMZB350UPE
			0.5	0.45	0.95	2.3	13.5	1.19	1	-	1020	1270	1700	2300	3500	PMZ950UPE	PMZB950UPE
			1	0.45	0.95	2.9	22	1.45	2	-	430	470	750	950	-	PMZ320UPE	PMZB320UPE
	30	8	0.41	0.45	0.95	3	14	0.7	2	-	1200	1700	2100	3000	-	PMZ1200UPE	PMZB1200UPE
			0.23	1.1	2.1	13	48	0.26	1	4500	5700	-	-	-	-	BSS84AKM	BSS84AKMB




Small-signal MOSFETs in DFN0603 and DFN0606

Package											DFN0603 (SOT8013)	DFN0606-3 (SOT8001)						
																		
Size (mm)											0.63 x 0.33 x 0.25	0.6 x 0.6 x 0.37						
P _{tot} (mW)											300	250						
Polarity	V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th)} min (V)	V _{GS(th)} max (V)	t _{on} typ (ns)	t _{off} typ (ns)	Q _C typ (nC)	ESD protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =								
										10 V	4.5 V	2.5 V	1.8 V	1.5 V	1.2 V			
N-channel	20	8		0.5	0.9				2		130					PMX100UNE		
			1.2	0.45	0.95	1	4	0.18	1.8	-	310	420	-	-	-		PMH260UNE	
			0.9	0.45	0.95	1	4	0.15	1.7	-	460	575	-	-	-		PMH400UNE	
			0.8	0.45	0.95	5.6	19	0.4	1	-	470	620	845	1125	2210		PMH600UNE	
			12	1.3	0.5	0.9	1	4	0.4			122	230	360			PMX100UN	
					0.5	0.9				2		360					PMX300UNE	
	30	8	0.77	0.45	0.95	4	12	0.6	2	-	550	660	770	890	-		PMH550UNE	
			0.35	0.4	0.9	1	5	0.11	2	-	2800	3000	-	-	-		NX5008NBKH	
			0.3	1	2.5	1	7	1		680	760						PMX700EN	
			0.35	1.1	2.1	4.7	6.9	1	2	2200	2500	-	-	-	-		NX7002BKH	
			0.26	0.8	1.5	1	3	0		3		4					NX138AKH	
			0.38	0.5	1.5	7.9	12.5	0.1	2	2300	2900	4800	-	-	-		NX138BKH	
P-channel	20	8		0.5	0.9				2		430					PMX400UPE		
			0.8	0.45	0.95	2	5	0	1.8	-	640	930	-	-	-		PMH550UPE	
			0.53	0.45	0.95	2.3	13.5	1.19	1	-	1020	1270	1700	2300	3500		PMH950UPE	
	30	8	0.9	0.5	0.9	1.5	7	0.4			334	298	490			PMX400UP		
				0.5	0.9				2		680						PMX800UPE	
			0.6	0.45	0.95	6	2	0.14	1.8	-	1000	1700	-	-	-		PMH850UPE	
10	0.52	0.45	0.95	3	14	0.7	2	-	1200	1700	2100	3000	-		PMH1200UPE			

Small-signal MOSFETs in DFN1010D-3 single and DFN1010B-3 dual packages

Package												DFN1010D-3 (SOT1215)		DFN1010B-6 (SOT1216)					
																			
Size (mm)												1.1 x 1.0 x 0.37		1.1 x 1.0 x 0.37					
P _{tot} (mW)												1000		350					
Configuration	Polarity	V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th)} min (V)	V _{GS(th)} max (V)	t _{on} typ (ns)	t _{off} typ (ns)	Q _c typ (nC)	ESD protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =								
											10 V	4.5 V	2.5 V	1.8 V	1.5 V	1.2 V			
Single	N-channel	12	8	3.2	0.4	0.9	6	18	6.6	1	-	34	39	46	50	121	PMXB40UNE		
		20		3.2	0.5	0.9	6	17	5.7	1	-	42	48	56	64	-	PMXB43UNE		
		30	20	3.2	1	2	3	11	3.6	-	49	56	-	-	-	-	PMXB56EN		
				3.2	1	2.5	3	11	6	1	44	56	-	-	-	-	PMXB65ENE		
	80		1.1	1.3	2.7	2	9	3	2	345	390	-	-	-	-	PMXB360ENEA			
	P-channel	12	8	3.2	0.4	1	6.2	27	6.7	1.5	-	59	78	120	198	880	PMXB65UPE		
		20		2.9	0.4	1	6	29	6.8	1	-	69	86	130	205	950	PMXB75UPE		
		30	20	1.2	0.45	0.95	3	18	1.25	1.5	-	350	450	600	760	1200	PMXB350UPE		
2.4				1	2.5	4	16	6.2	1	100	125	-	-	-	-	PMXB120EPE			
Dual	N-ch	20	8	0.93	0.5	1	1	5	0.6	2	-	270	360	470	600	-		PMDXB290UNE	
				0.6	0.45	0.95	5.6	19	0.4	1	-	470	620	845	1125	2210	-		PMDXB600UNE
		30	0.59	0.45	0.95	4	12	0.6	2	-	550	660	770	890	-	-		PMDXB550UNE	
	60	20	0.26	1.1	2.1	4.7	6.9	1	2	2200	2500	-	-	-	-	-		NX7002BKXB	
			P-ch	20	0.5	0.45	0.95	2.3	13.5	1.19	1	-	1020	1270	1700	2300	3500	-	
	30	0.41		0.45	0.95	3	14	0.7	2	-	1200	1700	2100	3000	-	-		PMDXB1200UPE	
Complementary	N	20	8	0.6	0.45	0.95	5.6	19	0.4	1	-	470	620	845	1125	2210	-		PMCXB900UE
	P			0.5	0.45	0.95	2.3	13.5	1.19	1	-	1020	1270	1700	2300	3500	-		PMCXB1000UE
	N	30	0.59	0.45	0.95	4	12	0.6	2	-	550	660	770	890	-	-			
			P	0.41	0.45	0.95	3	14	0.7	2	-	1200	1700	2100	3000	-	-		

Small-signal low-leakage MOSFETs


Package												DFN1006-3 (SOT883)		DFN1006B-3 (SOT883B)		DFN1010B-6 (SOT1216)		
																		
Size (mm)												1.0 x 0.6 x 0.48		1.0 x 0.6 x 0.37		1.1 x 1.0 x 0.37		
P _{tot} (mW)												250		250		350		
Config.	Polarity	V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th)} min (V)	V _{GS(th)} max (V)	I _{BSS} max (nA)	I _{GSS} max (nA)	ESD Protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =								
										4.5 V	2.5 V	1.8 V	1.5 V	1.2 V				
Single	N	20	8	0.6	0.45	0.95	25	50	1	470	620	845	1125	2210	PMZ600UNEL	PMZB600UNEL		
	P	20	8	0.5	0.45	0.95	25	50	1	1020	1270	1700	2300	3500	PMZ950UPEL	PMZB950UPEL		
Dual	N	20	8	0.6	0.45	0.95	25	50	1	470	620	845	1125	2210			PMDXB600UNEL	
	P	20	8	0.5	0.45	0.95	25	50	1	1020	1270	1700	2300	3500			PMDXB950UPEL	
Compl.	N	20	8	0.6	0.45	0.95	25	50	1	470	620	845	1125	2210				PMCXB900UEL
	P	20	8	0.5	0.45	0.95	25	50	1	1020	1270	1700	2300	3500				

Small-signal MOSFETs in DFN2020MD-6 single and DFN2020-6 dual packages






Types in **bold** represent new products

Package												DFN2020MD-6 (SOT1220)	DFN2020-6 (SOT1118)	DFN2020M-6 (SOT1220-2)						
Size (mm)												2.0 x 2.0 x 0.65	2.0 x 2.0 x 0.65	2.0 x 2.0 x 0.65						
P _{tot} (mW)												1250	1250	1250						
Configuration	Polarity	V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th)} min (V)	V _{GS(th)} max (V)	t _{on} typ (ns)	t _{off} typ (ns)	Q _C typ (nC)	ESD protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =									
											10 V	4.5 V	2.5 V	1.8 V						
Single	N-channel	20	8	10.1	0.4	0.9	5	31	20			9	10	16	PMPB8XN					
				11.4	0.4	0.9	10	32	10.9	1	-	16	20	20	PMPB12UNE					
				12.9	0.4	0.9	13	54	23	2.2	-	10	12	16	PMPB10XNE					
				5.9	0.75	1.25	16	49	31	2	-	14	20	-	PMPB20XNEA					
				10.4	0.4	0.9	9	31	13.4	-	-	18	21	23	PMPB15XN					
			10.1	0.4	0.9	9	31	11.6	2	-	19	23	31	PMPB23XNE						
			12	16.4	0.4	0.9	5	31	20	-	-	7	8.5	14.5			PMPB07R0UN			
			30	8	13.5	0.4	0.9	6	33	6	-	-	13	16	-	PMPB10XN				
					11.3	0.4	0.9	12	54	24	1	-	13	14	17	PMPB13XNE				
					5	0.4	0.9	8	33	12.4	1	-	28	32	37	PMPB29XNE				
		5.5			0.45	1.2	6	21	5.1	-	-	37	55	-	PMPB33XN					
		14			1	2	9	17	13.7			10	13		PMPB10EN					
		13		1	2	9	17	13.7	-	-	12	14	-	-	PMPB11EN					
		10.4		1	2	9	9	7.2	-	-	16.5	20.5	-	-	PMPB20EN					
		10		1	2.5	6	28	13	2	2	17	28	-	-	PMPB25ENE					
		6.9		1	2.5	4	17	6	2	2	30	39	-	-	PMPB50ENE					
		5.1		1	2.5	3	15	3.5	2	2	54	70	-	-	PMPB100ENE					
		40	12	15	1	1	6	31	7				9	12	26			PMPB08R5XN		
				13	0.4	0.9	4	18	8.1				9.1	11.1	14.6			PMPB09R1XN		
				13	0.4	0.9	3	16	6.6				10.3	12.5	16.1			PMPB10R3XN		
				10	0.4	0.9	3	10	4.3				14.8	18.4	24.6			PMPB14R8XN		
				10	0	0.9	8	33	2.1				17	20	27			PMPB16R5XNE		
			20	17	1	1.7	3	13	1.6			7	9				PMPB07R3EN			
			15	1	2	9	17	1.7				9	11				PMPB08R6EN			
			60	20	11.5	0	0.9	5	35	5.6	-	-	18	22	-	PMPB14XN				
					4	1.3	2.7	4.5	13.5	7.5	2	2	42	48	-	-	PMPB55ENE			
					3	1.3	2.7	4	10.5	6.2	2	2	72	85	-	-	PMPB85ENE			
		2.8			1.3	2.7	5	15	9.9	2	2	80	92	-	-	PMPB95ENE				
		1.9			1.3	2.7	3.5	9.5	4.8	2	2	175	195	-	-	PMPB215ENE				
		80	12	8	17.5	0.47	0.9	3	201	7.4				7	9.2	12			PMPB07R3VP	
					16.7	0.47	0.9	4	149	7.6				8	11.5	16			PMPB08R4VP	
					14	0.4	0.9	7	69	8.3				11	15.2	22			PMPB11R2VP	
					13	0.4	0.9	7	69	26				13	17	24	PMPB13UP			
					12.7	0.45	0.9	6	64	22	-	-	-	14	19	24	PMPB14XP			
				15	0.4	0.9	6	86	10				10	13	20			PMPB09R5VP		
				11.8	0.47	0.9	18	85	67				15	17		PMPB15XP				
				20	8	0.45	0.9								13	17				PMPB12R5UPE
						8	0.9								16	22				PMPB19R0UPE
						0.75	1.25								8	10				PMPB10R5TP
			12			0.47	0.9	16	43	28.8	-	-	-	19	21	27	PMPB19XP			
			10.3			0.47	0.9	13	92	30	2.4	-	-	19	22	28	PMPB20XPE			
			5		0.47	0.9	12	91	30	2.3	-	-	28	31	36	PMPB29XPE				
			8.5		0.75	1.25	10	43	12.5	2	-	-	29	45	-	PMPB30XPE				
			7.9		0.47	0.9	12	62	15	-	-	-	30	35	45	PMPB33XP				
			5		0.47	0.9	9	57	15.6	1	-	-	39	45	56	PMPB43XPE				
			5		0.47	0.9	15	28	14	-	-	-	47	54	74	PMPB47XP				
			30	20	12	1		3	60	6.2				14.5	19				PMPB14R7EP	
					20	1	2.5	3	67					12.7	16				PMPB12R7EP	
					12	1	2	2	145	5				14	18				PMPB14R0EP	
		13			1	2	2	121	5				12.5	16				PMPB12R5EP		
11	1	2.5			3	47	31	-	-	-	17.5	24			PMPB17EP					
9.5	1	2.5			3	28	19	-	-	-	24	32	-	-	PMPB24EP					
8.8	1	2.5			10	28	30				24	32			PMPB27EP					
6.8	1	2.5			7.4	27	17	-	-	-	40	55	-	-	PMPB48EP					
25	10.6	1	2.5	3	60	29				16	22				PMPB16EP					

Small-signal MOSFETs in DFN2020MD-6 single and DFN2020-6 dual packages

Package													DFN2020-6 (SOT1118)			
																
Size (mm)													2.0 x 2.0 x 0.65			
P _{tot} (mW)													1250			
Configuration	Polarity	V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th) min} (V)	V _{GS(th) max} (V)	t _{on} typ (ns)	t _{off} typ (ns)	Q _G typ (nC)	ESD protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =					
											10 V	4.5 V	2.5 V	1.8 V		
Dual	N-ch	20	12	5.3	0.4	0.9	4	40	14.4	-	-	32	40	60	PMDPB30XN	
		30	12	3.1	0.75	1.25	9	19	2.9	2	-	55	72	-	PMDPB56XNEA	
				0.5	1.5	6	18	1.65	1.8	-	95	130	-	PMDPB95XNE2		
	P-channel	8	20	4.5	0.45	0.95	7	41	6.3	2	-	58	74	97	PMDPB58UPE	
				3.7	0.45	0.95	6	47	5.4	2	-	82	107	142	PMDPB85UPE	
		12	20	4.5	0.47	0.9	4	135	16.5	-	-	55	75	110	PMDPB55XP	
				4.2	0.75	1.25	7	33	5	2	-	66	98		PMDPB70XPE	
				0.4	1	6	120	5.7	-	-	80	95	120	PMDPB80XP		
		30	12	3.8	0.45	1	3	112	5.2	-	-	70	89	-	PMDPB70XP	
		Complementary	N	20	12	5.3	0.4	0.9	4	40	14.4	-	-	26	33	50
P	20		12	4.5	0.4	0.9	4	40	8.1	-	-	55	75	110		

Small-signal MOSFETs in DSN and WLCSP packages





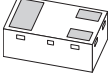
Package													WLCSP4	WLCSP6	WLCSP9	DSN1010-3	DSN1006-3			
																				
Size (mm)													0.78 x 0.78 x 0.35	1.48 x 0.98 x 0.35	1.48 x 1.48 x 0.35	0.96 x 0.96 x 0.24	1.0 x 0.6 x 0.2			
P _{tot} (mW)													1300	1300	1400	2500				
Configuration	Polarity	V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th) min} (V)	V _{GS(th) max} (V)	t _{on} typ (ns)	t _{off} typ (ns)	Q _G typ (nC)	ESD protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =									
											4.5 V	2.5 V	1.8 V	1.5 V						
Single	N	12	8	14	0.4	0.9	3	16	8	-	13	16	22	-					PMCA14UN	
				6	0.4	0.9	6.3	30	6	2	36	46	60	86	PMCM4401VNE					
		20	8	5.4	0.4	0.9	4	27	6	2	43	55	65	75	PMCM4401UNE					
				30	12	4.8	0.6	1.1	2	5	1		40	48	65					PMCB60XN
		0.6	1.1						2	40	49							PMCB60XNE		
	P	12	8	4.9	0.4	0.9	4.8	25.1	6.8	2	55	77	110	-	PMCM4401VPE					
				4	0.4	0.9	4	31	5.9	2	75	95	130	-	PMCM4401UPE					
		20	8	4.2	0.4	0.9	4	26	6	2	65	88	120	-	PMCM4402UPE					
	N	12	8	9.6	0.4	0.9	10.8	97.5	16.1	2	15	18	22	30		PMCM6501VNE				
				8.7	0.4	0.9	7	100	19	2	17	20	22	30		PMCM6501UNE				
		P	12	8	8.2	0.4	0.9	8	72	19.6	2	19	25	37	-		PMCM6501VPE			
					60	20	6.1	0.9	1.5	2	70	30	2	28	31	-			PMCM950ENE	

Small-signal MOSFETs

Small-signal MOSFETs single (N-channel)

Package													
Size (mm)													
P _{tot} (mW)													
V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th)} min (V)	V _{GS(th)} max (V)	t _{on} typ (ns)	t _{off} typ (ns)	Q _G typ (nC)	ESD protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =				
									10 V	4.5 V	2.5 V	1.8 V	
20	8	7	0.4	1	10	32	11	0.5	-	15	18	-	
		4.7	0.45	1	8.2	39.5	6.2	2	-	24	29	40	
		2.5	0.45	1	5	9	6	-	-	41	48	57	
		1.9	0.4	1	8	31	2.2	2	-	63	77	114	
		2.2	0.4	1	6	21	2.6	2	-	64	78	110	
		1.9	0.45	0.95	5.3	16	1.6	2	-	120	155	195	
		1.6	0.45	0.95	5.3	16	1.6	2	-	155	190	235	
		1	0.5	0.95	6	86	0.45	2	-	270	360	470	
	0.6	0.45	0.95	5.6	19	0.4	1	-	470	620	845		
	12	6.3	0.75	1.25	16	44	9.9	2	-	16	24	-	
		8.6	0.47	0.9	7	135	7.7	-	-	15	18	22	
		9.1	0.4	0.9	9	31	12	1	-	15	19	22	
		7.3	0.6	1.3	4	15	3	2	-	17	25	-	
		5.4	0.4	0.9	7	35	6.2	-	-	24	30	40	
6		0.4	0.9	5.5	22	5.1	1	-	28	38	42		
30	8	2	0.4	0.9	4	32	5.8	-	-	50	57	66	
		2.3	0.4	0.9	4	32	1.4	-	-	50	57	66	
		1.5	0.45	0.95	5	17	1.6	2	-	210	240	270	
		1	0.45	0.95	4	12	0.8	2	-	390	460	530	
		0.59	0.45	0.95	4	12	0.6	2	-	550	660	770	
		0.4	0.6	1.1	26	88	0.52	2	-	1000	1400	2000	
	12	7.2	0.4	0.9	8	33	12.4	2	-	19	22	17	
		5.7	0.4	0.9	9	34	7	-	-	33	42	54	
		4.4	0.4	0.9	9	34	7	-	-	36	43	56	
		3.4	0.6	1.25	2	7	1	1	-	60	102		
		1	0.75	1.25	2	6	0.2	2	-	230	295	470	
		0.9	0.5	1.5	8	11	0.74	2	-	234	324	-	
	20	7.6	1	2	9	9	7.2	-	17	21	-	-	
		5.5	1	2.5	8	33	12.6	2	17	22	-	-	
3.9		1	2.5	6.3	14.1	6	2	28	36	-	-		
3.1		1	2.5	18	78	6.5	-	28	37	-	-		
4.5		1	2.5	3	11	6	1	30	44	-	-		
5.1		1	2	3	11	3.6	-	35	43	-	-		
2.1		1	2.5	3	15	2.6	2	70	90	-	-		
0.18		0.8	1.5	10	51	0.34	-	2700	3000	4000	-		
40	20	6.2	1.3	2.7	2	12	11	-	19	23	-	-	
		5.4	1	2.5	4	20	7.8	2	23	30	-	-	
		2.7	1	2.5	6	12	4.1	1	64	79	-	-	
		2.5	1	2.5	14	14	2.4	1	95	120	-	-	
55	10	0.3	0.4	1.3	4	11	1	3	-	2300	2400	3100	
60	8	0.27	0.4	0.9	1	5	0	2	-	2	2	2	
	20	4.2	1.3	2.7	3	11	10	-	32	38	-	-	
		3.1	1.3	2.7	9	33	12.7	2	46	52	-	-	
		2.1	1.3	2.7	6.4	15.9	5.9	2	96	108	-	-	
		1.5	1.3	2.7	6.3	13	3.9	2	176	196	-	-	
		0.8	1.3	2.7	5.3	10.2	2.4	2	300	332	-	-	
		0.19	0.8	1.5	6	11	0.33	yes	2800	3500	4500	-	
		0.27	0.5	1.5	7.9	12.5	0.49	2	2100	2200	2600	-	
		0.1	0.6	1.4	2	5	-	2	2800	3800	-	-	
	0.19	1.1	2.1	12	34	0.33	yes	3000	3700	-	-		
0.27	1.1	2.1	4.7	6.9	1	2	2200	2500	-	-			
100	20	1.5	1.3	2.7	4.8	9.3	4.5	1	285	300	-	-	

Types in **bold** represent new products

	SOT457 (SC-74)	SOT23	SOT323 (SC-70)	DFN1006 (SOT883)	DFN1006B (SOT883B)
					
	2.9 x 1.5 x 1.0	2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95	1.0 x 0.6 x 0.48	1.0 x 0.6 x 0.37
	600	250	200	250	250
		PMV15UNEA			
	PMN28UNE	PMV28UNEA			
		NXV40UN			
			PMF63UNE		
		PMV65UNE			
				PMZ130UNE	
					PMZB150UNE
				PMZ290UNE2	PMZB290UNE2
				PMZ600UNE	PMZB600UNE
		PMV20XNEA			
		PMV16XN			
	PMN16XNE				
		PMV13XNEA			
		PMV30UN2			
	PMN30UNE				
		NXV50UN			
		NXV55UN			
				PMZ200UNE	PMZB200UNE
				PMZ390UNE	PMZB390UNE
				PMZ550UNE	PMZB550UNE
		NX3008NBK	NX3008NBKW		
		PMV20XNE			
	PMN30UN				
		PMV40UN2			
		PMV50XNEA			
		BSH103BK			
			PMF250XNE		
		PMV20EN			
	PMN25ENE	PMV15ENEA			
		PMV28ENEA			
		PMV37EN2			
	PMN40ENE	PMV42ENE			
		PMV45EN2			
		PMV90ENE			
		NX3020NAK	NX3020NAKW		
	PMN20ENA				
	PMN30ENEA	PMV30ENEA			
		PMV60ENEA			
		PMV130ENEA			
		BSH111BK			
		NX6008NBK	NX6008NBKW	NX5008NBKM	
	PMN40ENA				
	PMN55ENE	PMV55ENEA			
	PMV30ENEA	PMV88ENEA			
	PMN230ENE	PMV164ENEA			
		PMV450ENEA			
		NX138AK		NX138AKM	
		NX138BK	NX138BKW	NX138BKM	
		BSN20BK			
		NX7002AK	NX7002AKW		
		NX7002BK	NX7002BKW	NX7002BKM	NX7002BKMB
	PMN280ENEA	PMV280ENEA			

Small-signal MOSFETs single (P-channel)

Package														
Size (mm)														
P _{tot} (mW)														
V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th)} min (V)	V _{GS(th)} max (V)	t _{on} typ (ns)	t _{off} typ (ns)	Q _C typ (nC)	ESD protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =					
									10 V	4.5 V	2.5 V	1.8 V		
20	8	5.6	0.45	0.95	11	83	14.7	2	-	27	38	50		
		5.3	0.45	0.95	41	122	14.7	2	-	30	38	51		
		5.4	0.45	0.95	34	128	15.5	-	-	34	42	57		
		4	0.47	0.9	400	2180	10.5	3	-	50	57	70		
		2	0.5	1	6	46	5.8	-	-	55	74	101		
		2	0.5	1	5	36	4.2	-	-	75	103	-		
		2	0.5	1.1	7	50	6	-	-	100	155	210		
		1.2	0.45	0.95	33	52	3.3	-	-	170	210	280		
		2.3	0.45	0.95	5	43	3.7	-	-	120	150	200		
	1.4	0.45	0.95	9	35	1.3	1.8	-	330	420	520			
	0.5	0.45	0.95	2.3	13.5	1.19	1	-	1020	1270	1700			
	12	4.5	0.75	1.25	7.9	59	11	2	-	28	42	-		
		6.8	0.47	0.9	12	62	15	-	-	30	35	48		
		5.7	0.75	1.25	44	60	11.5	2	-	41	56	-		
		4.1 / 3.5	0.75	1.25	24	84	8.5	-	-	48	71	-		
		4.4	0.47	0.9	7	135	7.7	-	-	48	60	82		
		4.7	0.47	0.9	5.1	141	8.5	-	-	50	64	88		
		3.9	0.55	0.95	28	101	7.6	-	-	65	90	-		
		3.3	0.75	1.25	7	36	5	2	-	67	99	-		
4.1		0.75	1.25	20	57	5.2	2	-	70	101	-			
3.9		0.47	0.9	6	120	5	-	-	72	88	110			
3.2	0.47	0.9	6	120	5	-	-	77	95	120				
2	0.65	1.15	48	64	4.8	-	-	90	125	-				
2.3	0.7	1.3	5.3	36	3.4	2	-	100	155	-				
1	0.65	1.15	26	44	2.6	-	-	175	240	-				
30	8	1	0.45	0.95	2.9	22	1.45	2	-	400	480	600		
		0.41	0.45	0.95	3	14	0.7	2	-	1200	1700	2100		
		0.23	0.6	1.1	49	103	0.55	2	-	2800	5300	-		
	12	1.5	0.5	0.9	5	40	4.2	-	-	104	131	175		
		20	5.3	1	3	6	36	12.8	2	35	49	-	-	
			4.4	1	3	5	19	6.5	2	60	96	-	-	
1.5	1	3	4	18	5.2	-	-	98	135	-	-			
40	20	1.8	1	2.5	10	40	4.7	1	180	220	-	-		
50	20	0.2	1.1	2.1	24	73	0.26	1	5300	6000	-	-		
100	25	1.2	2	4	8	23	2.6	-	365	-	-	-		




Types in **bold** represent new products




SOT457 (SC-74)	SOT23	SOT363 (SC-88)	SOT323 (SC-70)	DFN1006-3 (SOT883)	DFN1006B-3 (SOT883B)
					
2.9 x 1.5 x 1.0	2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95	2.0 x 1.25 x 0.95	1.0 x 0.6 x 0.48	1.0 x 0.6 x 0.37
600	250	300	200	250	250
	PMV27UPE				
	PMV33UPE				
	PMV32UP				
	PMV50UPE				
	NXV65UP				
	NXV75UP				
	NX2301P				
	PMV160UP				
	BSH205G2				
				PMZ350UPE	PMZB350UPE
				PMZ950UPE	PMZB950UPE
PMN30XPE	PMV30XPEA				
PMN30XP					
PMN48XP	PMV48XP				
	PMV50XP				
PMN52XP					
	PMV65XP				
	PMV65XPE				
PMN70XPE					
PMN70XP					
	PMV75UP				
		PMG85XP			
	PMV100XPEA				
			PMF170XP		
				PMZ320UPE	PMZB320UPE
				PMZ1200UPE	PMZB1200UPE
	NX3008PBK				
	NXV100XP		NX3008PBKW		
PMN50EPE	PMV35EPE				
PMN70EPE	PMV74EPE				
	NXV90EP				
	PMV250EPEA				
	BSS84AK		BSS84AKW	BSS84AKM	BSS84AKMB
	PMV240SP				

Small-signal MOSFETs dual

Package										
Size (mm)										
P _{tot} (mW)										
Polarity	V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th)} min (V)	V _{GS(th)} max (V)	t _{on} typ (ns)	t _{off} typ (ns)	Q _C typ (nC)	ESD protection (kV)	
N-channel	20	8	0.6	0.45	0.95	5.6	19	0.4	1	
		12	5.3	0.4	0.9	4	40	14.4	-	
	30	8	0.59	0.45	0.95	4	12	0.6	2	
			0.35	0.6	1.1	26	88	0.52	2	
		12	3.1	0.75	1.25	9	19	2.9	2	
			3.1	0.5	1.5	6	18	1.65	1.8	
			1	0.5	1.5	6.5	14	0.7	2	
			20	0.18	0.8	1.5	10	51	0.34	yes
	60	8	0.22	0.4	0.9	1	5	0.11	2	
		20	0.18	0.8	1.5	6	11	0.33	yes	
			0.26	0.5	1.5	7.9	12.5	0.49	2	
			0.17	1.1	2.1	12	34	0.33	yes	
		0.26	1.1	2.1	4.7	6.9	1	2		
P-channel	20	8	4.5	0.45	0.95	7	41	6.3	2	
			0.5	0.45	0.95	2.3	13.5	1.19	1	
			3.7	0.45	0.95	6	47	5.4	2	
		12	4.5	0.47	0.9	4	135	16.5	-	
			4.2	0.75	1	7	33	5	2	
			3.7	0.4	1	6	120	5.7	-	
	30	8	0.41	0.45	0.95	3	14	0.7	2	
			0.2	0.6	1.1	49	103	0.55	2	
		12	3.8	0.45	1	3	112	5.2	-	
	50	20	0.16	1.1	2.1	24	73	0.26	1	

Small-signal MOSFETs complementary

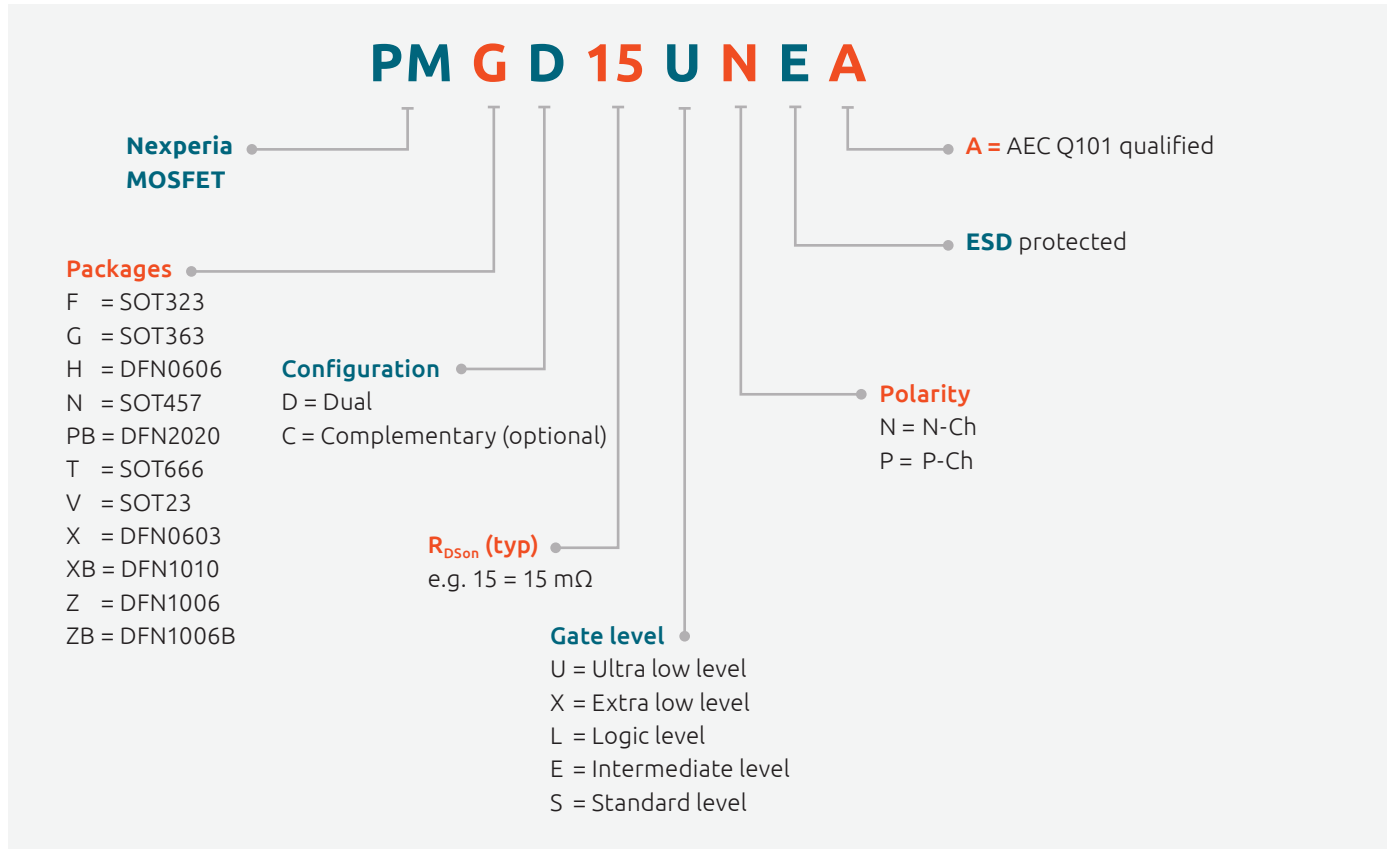
Package	Type	Polarity	V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th)} min (V)	V _{GS(th)} max (V)	
 SOT363 (SC-88) (2.0 x 1.25 x 0.95)	NX3008CBKS	N	30	8	0.35	0.6	1.1	
		P	30	8	0.2	0.6	1.1	
	NX6020CAKS	N	60	20	0.17	1.1	2.1	
		P	50	20	0.16	1.1	2.1	
 DFN1010B-6 (1.1 x 1.0 x 0.37)	PMCXB900UE	N	20	8	0.6	0.45	0.95	
		P	20	8	0.5	0.45	0.95	
	PMCXB1000UE	N	30	8	0.59	0.45	0.95	
		P	30	8	0.41	0.45	0.95	
 DFN2020-6 (2.0 x 2.0 x 0.65)	PMCPB5530X	N	20	12	5.3	0.4	0.9	
		P	20	12	4.5	0.47	0.9	

					SOT363 (SC-88)	DFN2020-6 (SOT1118)	DFN1010B-6 (SOT1216)
							
					2.0 x 1.25 x 0.95	2.0 x 2.0 x 0.65	1.0 x 1.0 x 0.37
					300	1250	350
R _{DS(on)} typ (mΩ) @ V _{GS} =							
	10 V	4.5 V	2.5 V	1.8 V			
	-	470	620	845	PMDXB600UNE		
	-	32	40	60	PMDPB30XN		
	-	550	660	770	PMDXB550UNE		
	-	1000	1400	2000	NX3008NBKS		
	-	55	72	-	PMDPB56XNEA		
	-	95	130	-	PMDPB95XNE2		
	-	170	240	-	PMGD175XNE		
	2700	3000	4000	-	NX3020NAKS		
		2700	2900	-	NX6008NBKS		
	2800	3500	4500	-	NX138AKS		
	2100	2200	2600	-	NX138BKS		
	3000	3700	-	-	NX7002AKS		
	2200	2500	-	-	NX7002BKS	NX7002BKXB	
	-	58	74	97	PMDPB58UPE		
	-	1020	1270	1700	PMDXB950UPE		
	-	82	107	142	PMDPB85UPE		
	-	55	75	110	PMDPB55XP		
	-	66	98	-	PMDPB70XPE		
	-	80	95	120	PMDPB80XP		
	-	1200	1700	2100	PMDXB1200UPE		
	-	2800	5300	-	NX3008PBKS		
	-	70	89	-	PMDPB70XP		
	4500	5700	-	-	BSS84AKS		

MOSFETs

t _{on} typ (ns)	t _{off} typ (ns)	Q _c typ (nC)	ESD protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =					
				10 V	4.5 V	2.5 V	1.8 V	1.5 V	1.2 V
26	88	0.52	2	-	1000	1400	2000	-	-
49	103	0.55	2	-	2800	5300	-	-	-
6	20	0.33	yes	3000	3700				
13	48	0.26	1	4500	5700				
5.6	19	0.4	1	-	470	620	845	1125	2210
2.3	13.5	1.19	1	-	1020	1270	1700	2300	3500
4	12	0.6	2	-	550	660	770	890	-
3	14	0.7	2	-	1200	1700	2100	3000	-
19	56	14.4	-	-	26	33	50	-	-
18	56	16.5	-	-	55	75	110	-	-

Small-signal MOSFETs nomenclature

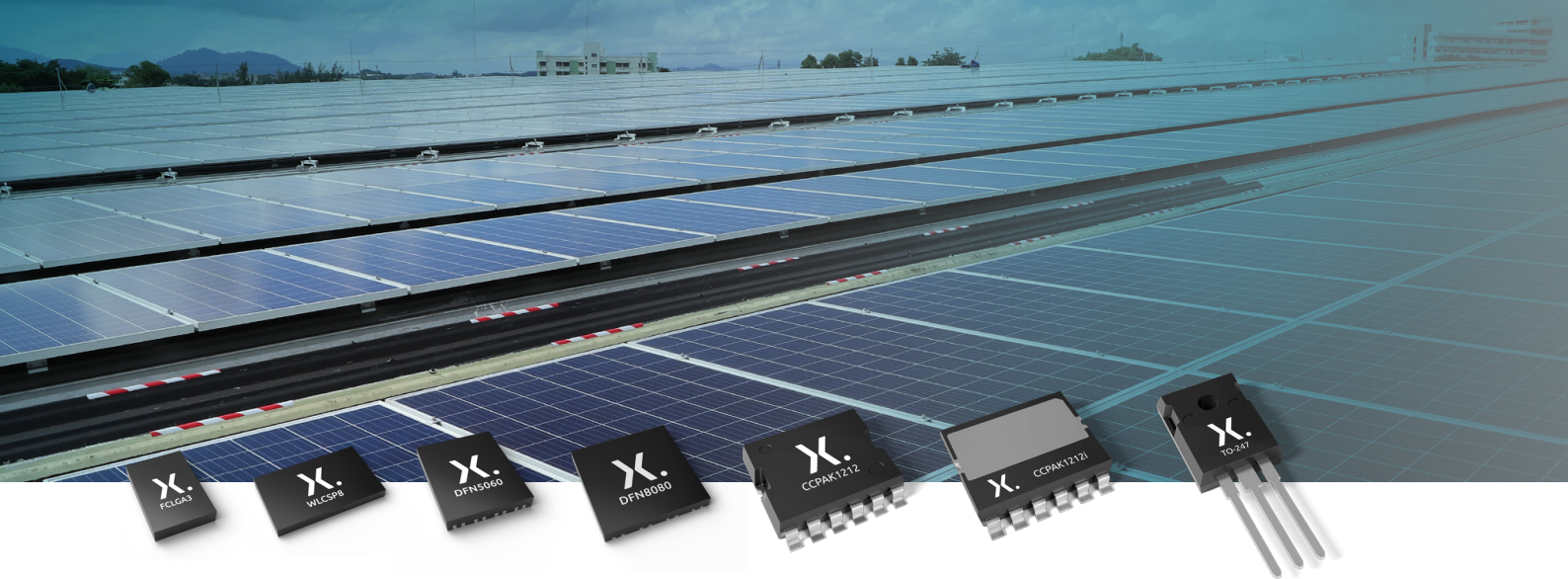




Power GaN FETs

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Industrial 650 V SMD and through-hole GaN FETs.....	123
Industrial 100 - 150 V WLCSP & LGA GaN FETs	123



Power Gallium Nitride (GaN) FETs

Efficient and effective power FETs

Whether for low- or high-power conversion applications, power Gallium Nitride FETs (GaN FETs) are increasingly making their way into mainstream markets. For a variety of 650 V and 150 V applications GaN FETs deliver the fastest transition / switching capability (highest dv/dt and di/dt), and best power efficiency. Additionally, Nexperia power GaN FETs bring enhanced power density through reduced conduction and switching losses.

Nexperia GaN FETs are available in 2 configurations:

Enhancement mode (e-mode)

(for ≤ 150 V high-power & 650 V low-power applications)

- › Enhancement mode transistor-normally off power switch
- › Ultra-high switching frequency
- › Leading soft-switching performance
- › No reverse-recovery charge
- › Low gate charge, low output charge
- › High performance (>99% efficiency)
- › Tight dynamic characteristics
- › Easy to drive, 0 to 5 V gate drive
- › Qualified for industrial applications according to JEDEC standard

Key applications ≤ 150 V high-power

- › 400 V-48 V LLC converter for datacenters
- › 48 V to POL direct conversion
- › Power supply (AC/DC) fast-charging for e-mobility
- › USB-C power delivery fast-charging for portables
- › LiDAR (non-automotive)
- › Class D audio amplifiers

Key applications 650 V low-power

- › Datacom and telecom (AC/DC and DC/DC)
- › Photovoltaic (PV) micro inverter (DC/AC)
- › Industrial (DC/AC)
- › BLDC / micro servo motor drives
- › LED driver
- › TV power supply unit (PSU)

Cascode mode

(for 650 V high-power applications)

- › 3 times lower inductances than industry-standard packages for lowest switching losses & EMI
- › Higher reliability compared to wire-bonded solutions
- › 99% power conversion efficiency
- › Up to 1 MHz in soft-switching (high power density)
- › Easy to design gate drive, 0 to 12 V
- › Low $R_{th(j-mb)}$ typ for optimal cooling & 175 °C rated
- › Virtually no Q_{rr}
- › Flexible gull winged leads for temperature cycling & board level reliability
- › Plans for AEC-Q101, MSL1 & Halogen free qualifications

Key applications 650 V high-power

- › On-board charging
- › Industrial vehicle charging
- › DC/DC converters
- › Traction converters
- › Telecom and server titanium grade power supplies
- › Solar (PV) inverter
- › AC servo drive / frequency inverters
- › Battery storage / UPS inverters



Automotive (AEC-Q101) 650 V SMD GaN FETs

Types in **bold red** are in development, types in **bold** represent new products

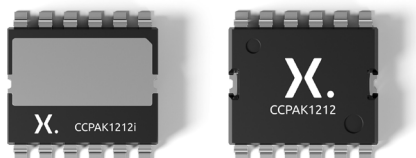
Package	Type name	Configuration	V _{DS} [max] (V)	R _{DS(on)} [max] @ V _{GS} = 10 V (mΩ)	I _b (max) (A)	Q _c (nC)	Q _{oss} (nC)
CCPAK1212 (SMD)	GAN039-650NBBA	Cascode	650	39	60		150
CCPAK1212i (SMD)	GAN039-650NTBA			39	60		150

Industrial 650 V SMD and through-hole GaN FETs

Package	Type name	Configuration	V _{DS} [max] (V)	R _{DS(on)} [max] @ V _{GS} = 10 V (mΩ)	I _b (max) (A)	Q _c (nC)	Q _{oss} (nC)
CCPAK1212 (SMD)	GAN039-650NB	Cascode	650	39	59		150
CCPAK1212i (SMD)	GAN039-650NTB			39	60		150
TO-247 (through-hole)	GAN111-650WSB			111			
	GAN063-650WSA			60	35		125
	GAN041-650WSB			41	47		150
DFN8080 (SMD)	GAN080-650EBE	E-mode	650	80	29	6.2	60
	GAN140-650FBE			140	17	3.5	33
	GAN190-650FBE			190	11.5	2.8	24.5
DFN5060 (SMD)	GAN140-650EBE			140	17	3.5	33
	GAN190-650EBE			190	11.5	2.8	25

Industrial 100 - 150 V WLCSP & LGA GaN FETs

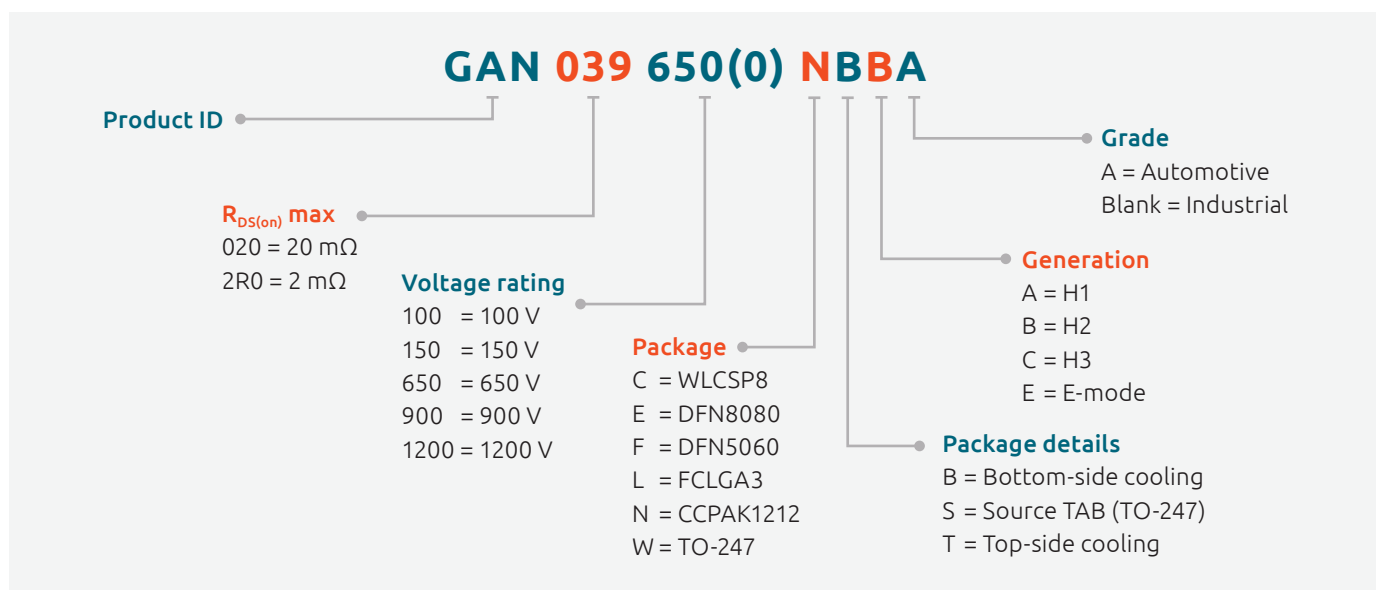
Package	Type name	Configuration	V _{DS} [max] (V)	R _{DS(on)} [max] @ V _{GS} = 10 V (mΩ)	I _b (max) (A)	Q _c (nC)	Q _{oss} (nC)
WLCSP8 (SMD)	GAN3R2-100CBE	E-mode	100	3.2	60	9.2	50
FCLGA3 (SMD)	GAN7R0-150LBE		150	7	28	7.6	46.8



Top-side and bottom-side cooling

For added flexibility in designs and to further improve heat dissipation, CCPAK is available in both top-side cooling (CCPAK1212i) and bottom-side cooling package designs (CCPAK1212).

Power GaN FETs naming conventions





Analog & Logic ICs

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Q100 Functions and Standard Packages (>10 pins)

Logic - Buffer / Inverters

Type number	Description	Features				Package (suffix)										
		V _{cc} (V)	I _o (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT108-1 (D)	SOT402-1 (PW)	SOT162-1 (BQ)	SOT109-1 (D)	SOT403-1 (PW)	SOT163-1 (D)	SOT360-1 (PW)	SOT164-1 (BQ)	SOT362-1 (DGG)	SOT480-1 (DGV)	
74AHC04-Q100	Hex inverter	2.0 - 5.5	± 8	3.0	-40 to 125	•	•	•								
74AHT04-Q100	Hex inverter; TTL-enabled	4.5 - 5.5	± 8	3.0	-40 to 125	•	•	•								
74AHC125-Q100	Quad buffer/line driver (3-state)	2.0 - 5.5	± 8	3.0	-40 to 125	•	•	•								
74AHT125-Q100	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.0	-40 to 125	•	•	•								
74AHC126-Q100	Quad buffer/line driver (3-state)	2.0 - 5.5	± 8	3.3	-40 to 125	•	•	•								
74AHT126-Q100	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.0	-40 to 125	•	•	•								
74AHT240-Q100	Octal inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.0	-40 to 125						•	•	•			
74AHC244-Q100	Octal buffer/line driver (3-state)	2.0 - 5.5	± 8	3.5	-40 to 125						•	•	•			
74AHT244-Q100	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.5	-40 to 125						•	•	•			
74AHC541-Q100	Octal buffer/line driver (3-state)	2.0 - 5.5	± 8	3.5	-40 to 125						•	•	•			
74AHT541-Q100	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.5	-40 to 125						•	•	•			
74AHC04-Q100	Hex inverter; unbuffered	2.0 - 5.5	± 8	2.4	-40 to 125	•	•	•								
74ALVC125-Q100	Quad buffer/line driver (3-state)	1.65 - 3.6	± 24	1.8	-40 to 85	•	•	•								
74ALVC541-Q100	Octal buffer/line driver (3-state)	1.65 - 3.6	± 24	2.3	-40 to 85						•	•	•			
74HC05-Q100	Hex inverter; open-drain	2.0 - 6.0	5.2	11	-40 to 125	•	•	•								
74HC04-Q100	Hex inverter	2.0 - 6.0	± 5.2	7.0	-40 to 125	•	•	•								
74HCT04-Q100	Hex inverter; TTL-enabled	4.5 - 5.5	± 4.0	8.0	-40 to 125	•	•	•								
74HC125-Q100	Quad buffer/line driver (3-state)	2.0 - 6.0	± 7.8	9.0	-40 to 125	•	•									
74HCT125-Q100	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 6	12	-40 to 125	•	•									
74HC126-Q100	Quad buffer/line driver (3-state)	2.0 - 6.0	± 7.8	9.0	-40 to 125	•	•									
74HCT126-Q100	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 6	11	-40 to 125	•	•									
74HC240-Q100	Octal inverter/line driver (3-state)	2.0 - 6.0	± 7.8	9.0	-40 to 125						•	•	•			
74HCT240-Q100	Octal inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 6	9.0	-40 to 125						•	•	•			
74HC244-Q100	Octal buffer/line driver (3-state)	2.0 - 6.0	± 7.8	9.0	-40 to 125						•	•	•			
74HCT244-Q100	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 6	11	-40 to 125						•	•	•			
74HC365-Q100	Hex buffer/line driver (3-state)	2.0 - 6.0	± 7.8	9.0	-40 to 125					•	•					
74HCT365-Q100	Hex buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 6	11	-40 to 125					•	•					
74HC366-Q100	Hex inverter/line driver (3-state)	2.0 - 6.0	± 7.8	10	-40 to 125					•	•					
74HCT366-Q100	Hex inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 6	11	-40 to 125					•	•					
74HC540-Q100	Octal inverter/line driver (3-state)	2.0 - 6.0	± 7.8	9.0	-40 to 125						•					
74HCT540-Q100	Octal inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 6	11	-40 to 125						•					
74HC541-Q100	Octal buffer/line driver (3-state)	2.0 - 6.0	± 7.8	10	-40 to 125						•	•				

Logic - Buffer / Inverters

Type number	Description	Features				Package (suffix)									
		V _{CC} (V)	I _O (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT108-1 (D)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT109-1 (D)	SOT403-1 (PW)	SOT163-1 (D)	SOT360-1 (PW)	SOT764-1 (BQ)	SOT362-1 (DGG)	SOT480-1 (DGV)
74HCT541-Q100	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 6	12	-40 to 125						•	•			
74HCU04-Q100	Hex inverter; unbuffered	2.0 - 6.0	± 5.2	5.0	-40 to 125	•	•	•							
74LV244-Q100	Octal buffer/line driver (3-state)	1.0 - 5.5	± 16	8.0	-40 to 125					•	•				
74LVC04A-Q100	Hex inverter	1.65 - 5.5	± 24	2.0	-40 to 125	•	•	•							
74LVC06A-Q100	Hex inverter; open-drain	1.65 - 5.5	32	2.2	-40 to 125	•	•	•							
74LVC07A-Q100	Hex buffer; open-drain	1.65 - 5.5	32	2.2	-40 to 125	•	•	•							
74LVC125A-Q100	Quad buffer/line driver (3-state)	1.2 - 3.6	± 24	2.4	-40 to 125	•	•	•							
74LVC126A-Q100	Quad buffer/line driver (3-state)	1.2 - 3.6	± 24	2.4	-40 to 125	•	•	•							
74LVC541A-Q100	Octal buffer/line driver (3-state)	1.2 - 3.6	± 24	3.3	-40 to 125					•	•	•			
74LVC16240A-Q100	16-bit inverter/line driver (3-state)	1.2 - 3.6	± 24	2.7	-40 to 125									•	
74LVC244A-Q100	Octal buffer/line driver (3-state)	1.2 - 3.6	± 24	2.8	-40 to 125					•	•	•			
74LVCH244A-Q100	Octal buffer/line driver with bus hold (3-state)	1.2 - 3.6	± 24	2.8	-40 to 125					•	•	•			
74LVC16244A-Q100	16-bit buffer/line driver (3-state)	1.2 - 3.6	± 24	3.0	-40 to 125									•	•
74LVCH16244A-Q100	16-bit buffer/line driver with bus hold (3-state)	1.2 - 3.6	± 24	3.0	-40 to 125									•	•
74LVCU04A-Q100	Hex inverter; unbuffered	1.2 - 3.6	± 24	2.0	-40 to 125	•	•								
74LVT04-Q100	Hex inverter	2.7 - 3.6	-20 / +32	2.6	-40 to 85	•	•								
74LVT244A-Q100	Octal buffer/line driver with bus hold (3-state)	2.7 - 3.6	-32 / +64	2.6	-40 to 85					•	•	•			
74LVTH244A-Q100	Octal buffer/line driver with bus hold (3-state)	2.7 - 3.6	-32 / +64	2.6	-40 to 85					•	•	•			
74VHC126-Q100	Quad buffer/line driver (3-state)	2.0 - 5.5	± 8	3.3	-40 to 125	•	•	•							
74VHCT126-Q100	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.0	-40 to 125	•	•	•							
74VHC541-Q100	Octal buffer/line driver (3-state)	2.0 - 5.5	± 8	3.5	-40 to 125					•	•	•			
74VHCT541-Q100	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.5	-40 to 125					•	•	•			
HEF4049B-Q100	Hex inverter/line driver	3.0 - 15.0	-3 / +20	20	-40 to 85				•						
HEF4050B-Q100	Hex buffer/line driver	3.0 - 15.0	-3 / +20	40	-40 to 85				•						
HEF4069UB-Q100	Hex inverter; unbuffered	3.0 - 15.0	± 3.4	15	-40 to 85	•	•								

Logic - Transceivers

Type number	Description	Features				Package (suffix)				
		V _{CC} (V)	I _O (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT163-1 (D)	SOT360-1 (PW)	SOT764-1 (BQ)	SOT362-1 (DGG)	SOT480-1 (DGV)
74AHC245-Q100	Octal transceiver (3-state)	2.0 - 5.5	± 8	3.5	-40 to 125	•	•	•		
74AHCT245-Q100	Octal transceiver; TTL-enabled (3-state)	4.5 - 5.5	± 8	5.0	-40 to 125	•	•	•		
74HC245-Q100	Octal transceiver (3-state)	2.0 - 6.0	± 7.8	7.0	-40 to 125	•	•	•		
74HCT245-Q100	Octal transceiver; TTL-enabled (3-state)	4.5 - 5.5	± 6	10	-40 to 125	•	•	•		
74LVC245A-Q100	Octal transceiver (3-state)	1.2 - 3.6	± 24	2.9	-40 to 125	•	•	•		
74LVCH245A-Q100	Octal transceiver with bus hold (3-state)	1.2 - 3.6	± 24	2.9	-40 to 125	•	•	•		
74LVC16245A-Q100	16-bit bus transceiver with diRection pin; 5 V tolerant (3-state)	1.2 - 3.6	± 24	5.2	-40 to 125				•	•
74LVC162245A-Q100	16-bit transceiver with 30 Ω termination resistors (3-state)	1.2 - 3.6	± 12	3.3	-40 to 125				•	•
74LVCH16245A-Q100	16-bit bus transceiver with bus hold with diRection pin; 5 V tolerant (3-state)	1.2 - 3.6	± 24	5.2	-40 to 125				•	•

Logic - Gates

Type number	Description	Features				Package (suffix)			
		V_{cc} (V)	I_o (mA)	t_{pd} (ns)	T_{amb} (°C)	SOT108-1 (D)	SOT1402-1 (PW)	SOT1762-1 (BQ)	SOT1765-1 (DC)
74AHC00-Q100	Quad 2-input NAND gate	2.0 - 5.5	± 8	3.2	-40 to 125	•	•	•	
74AHCT00-Q100	Quad 2-input NAND gate; TTL-enabled	4.5 - 5.5	± 8	3.3	-40 to 125	•	•	•	
74AHC02-Q100	Quad 2-input NOR gate	2.0 - 5.5	± 8	2.9	-40 to 125	•	•	•	
74AHCT02-Q100	Quad 2-input NOR gate; TTL-enabled	4.5 - 5.5	± 8	3.8	-40 to 125	•	•	•	
74AHC08-Q100	Quad 2-input AND gate	2.0 - 5.5	± 8	3.5	-40 to 125	•	•	•	
74AHCT08-Q100	Quad 2-input AND gate; TTL-enabled	4.5 - 5.5	± 8	5.0	-40 to 125	•	•	•	
74AHC30-Q100	8-input NAND gate	2.0 - 5.5	± 8	3.6	-40 to 125	•	•	•	
74AHCT30-Q100	8-input NAND gate; TTL-enabled	4.5 - 5.5	± 8	3.3	-40 to 125	•	•	•	
74AHC32-Q100	Quad 2-input OR gate	2.0 - 5.5	± 8	3.5	-40 to 125	•	•	•	
74AHCT32-Q100	Quad 2-input OR gate; TTL-enabled	4.5 - 5.5	± 8	5.0	-40 to 125	•	•	•	
74AHC86-Q100	Quad 2-input EXCLUSIVE-OR gate	2.0 - 5.5	± 8	3.4	-40 to 125	•	•	•	
74AHCT86-Q100	Quad 2-input EXCLUSIVE-OR gate; TTL-enabled	4.5 - 5.5	± 8	3.4	-40 to 125	•	•	•	
74ALVC00-Q100	Quad 2-input NAND gate	1.65 - 3.6	± 24	2.1	-40 to 85	•	•	•	
74ALVC32-Q100	Quad 2-input OR gate	1.65 - 3.6	± 24	2.0	-40 to 125	•	•	•	
74AUP2G00-Q100	Dual 2-input NAND gate	2.0 - 5.5	± 8	3.2	-40 to 125				•
74HC00-Q100	Quad 2-input NAND gate	2.0 - 6.0	± 5.2	7.0	-40 to 125	•	•	•	
74HCT00-Q100	Quad 2-input NAND gate; TTL-enabled	4.5 - 5.5	± 4	10	-40 to 125	•	•	•	
74HC02-Q100	Quad 2-input NOR gate	2.0 - 6.0	± 5.2	7.0	-40 to 125	•	•	•	
74HCT02-Q100	Quad 2-input NOR gate; TTL-enabled	4.5 - 5.5	± 4	9.0	-40 to 125	•	•	•	
74HC03-Q100	Quad 2-input NAND gate; open-drain	2.0 - 6.0	5.2	8.0	-40 to 125	•	•		
74HCT03-Q100	Quad 2-input NAND gate; open-drain; TTL-enabled	4.5 - 5.5	± 4	10	-40 to 125	•	•		
74HC08-Q100	Quad 2-input AND gate	2.0 - 6.0	± 5.2	7.0	-40 to 125	•	•	•	
74HCT08-Q100	Quad 2-input AND gate; TTL-enabled	4.5 - 5.5	± 4	11	-40 to 125	•	•	•	
74HC10-Q100	Triple 3-input NAND gate	2.0 - 6.0	± 5.2	9.0	-40 to 125	•	•		
74HCT10-Q100	Triple 3-input NAND gate; TTL-enabled	4.5 - 5.5	± 4	11	-40 to 125	•	•		

Logic - Schmitt-trigger IC's

Type number	Description	Features				Package (suffix)				
		V_{CC} (V)	I_o (mA)	t_{pd} (ns)	T_{amb} (°C)	SOT108-1 (D)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT163-1 (D)	SOT360-1 (PW)
74AHC14-Q100	Hex inverter Schmitt-trigger	2.0 - 5.5	± 8	3.2	-40 to 125	•	•	•		
74AHCT14-Q100	Hex inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 8	4.0	-40 to 125	•	•	•		
74AHC132-Q100	Quad 2-input NAND gate Schmitt-trigger	2.0 - 5.5	± 8	3.3	-40 to 125	•	•	•		
74AHCT132-Q100	Quad 2-input NAND gate Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 8	3.5	-40 to 125	•	•	•		
74HC7014-Q100	Hex buffer precision Schmitt-trigger	2.0 - 6.0	± 5.2	27	-40 to 125	•				
74HC14-Q100	Hex inverter Schmitt-trigger	2.0 - 6.0	± 5.2	12	-40 to 125	•	•	•		
74HCT14-Q100	Hex inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 4	17	-40 to 125	•	•	•		
74HC132-Q100	Quad 2-input NAND gate Schmitt-trigger	2.0 - 6.0	± 5.2	11	-40 to 125	•	•	•		
74HCT132-Q100	Quad 2-input NAND gate Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 4	17	-40 to 125	•	•			
74HC7541-Q100	Octal buffer/line driver Schmitt-trigger (3-State)	2.0 - 6.0	± 7.8	11	-40 to 125				•	•
74HCT7541-Q100	Octal buffer/line driver Schmitt-trigger; TTL-enabled (3-State)	4.5 - 5.5	± 6	16	-40 to 125				•	•
74LV132-Q100	Quad 2-input NAND gate Schmitt-trigger	1.0 - 5.5	± 12	10	-40 to 125	•	•	•		
74LV7032A-Q100	Quad 2-input OR gate Schmitt-trigger	2.0 - 5.5	± 12	4.3	-40 to 125		•			
74LVC14A-Q100	Hex inverter Schmitt-trigger	1.2 - 3.6	± 24	3.2	-40 to 125	•	•	•		
74LVC132A-Q100	Quad 2-input NAND gate Schmitt-trigger	1.2 - 3.6	± 24	3.4	-40 to 125	•	•	•		
HEF4093B-Q100	Quad 2-input NAND gate Schmitt-trigger	3.0 - 15	± 24	30	-40 to 125	•				
HEF40106B-Q100	Hex inverter Schmitt-trigger	4.5 - 15.5	± 2.4	30	-40 to 85	•	•			

Logic - Flip-flops

Type number	Description	Features				Package (suffix)									
		V_{CC} (V)	I_o (mA)	t_{pd} (ns)	T_{amb} (°C)	SOT108-1 (D)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT109-1 (D)	SOT403-1 (PW)	SOT163-1 (D)	SOT360-1 (PW)	SOT764-1 (BQ)	SOT815-1 (BQ)	SOT362-1 (DGG)
74AHC74-Q100	Dual D-type flip-flop with set and reset; positive-edge trigger	2.0 - 5.5	± 8	3.7	-40 to 125	•	•	•							
74AHCT74-Q100	Dual D-type flip-flop with set and reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	± 8	3.3	-40 to 125	•	•	•							
74AHC273-Q100	Octal D-type flip-flop with reset; positive-edge trigger	2.0 - 5.5	± 8	4.2	-40 to 125						•	•	•		
74AHCT273-Q100	Octal D-type flip-flop with reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	± 8	4.0	-40 to 125						•	•	•		
74AHC374-Q100	Octal D-type flip-flop; positive-edge trigger	2.0 - 5.5	± 8	4.4	-40 to 125						•	•			
74AHCT374-Q100	Octal D-type flip-flop; positive-edge trigger (3-state); TTL-enabled (3-state)	4.5 - 5.5	± 8	4.3	-40 to 125						•	•			
74HC73-Q100	Dual JK flip-flop with reset; negative-edge trigger	2.0 - 6.0	± 5.2	16	-40 to 125	•									
74HC74-Q100	Dual D-type flip-flop with set and reset; positive-edge trigger	2.0 - 6.0	± 5.2	14	-40 to 125	•	•	•							
74HCT74-Q100	Dual D-type flip-flop with set and reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	± 4	15	-40 to 125	•	•	•							
74HC107-Q100	Dual J-K flip-flop with reset; negative-edge trigger	2.0 - 6.0	± 5.2	16	-40 to 125	•	•								
74HCT107-Q100	Dual J-K flip-flop with reset; negative-edge trigger; TTL-enabled	4.5 - 5.5	± 4	16	-40 to 125	•									
74HC109-Q100	Dual J-K flip-flop with set and reset; positive-edge trigger	2.0 - 6.0	± 5.2	15	-40 to 125				•						
74HCT109-Q100	Dual J-K flip-flop with set and reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	± 4	17	-40 to 125				•	•					
74HC174-Q100	Hex D-type flip-flop with reset; positive-edge trigger	2.0 - 6.0	± 5.2	17	-40 to 125				•	•					

Logic - Flip-flops

Type number	Description	Features				Package (suffix)									
		V _{CC} (V)	I _O (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT108-1 (D)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT109-1 (D)	SOT403-1 (PW)	SOT163-1 (D)	SOT360-1 (PW)	SOT764-1 (BQ)	SOT815-1 (BQ)	SOT362-1 (DGG)
74HCT174-Q100	Hex D-type flip-flop with reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	± 4	18	-40 to 125				•	•					
74HC175-Q100	Quad D-type flip-flop with reset; positive-edge trigger	2.0 - 6.0	± 5.2	17	-40 to 125				•	•					
74HCT175-Q100	Quad D-type flip-flop with reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	± 4	16	-40 to 125				•	•					
74HC273-Q100	Octal D-type flip-flop with reset; positive-edge trigger	2.0 - 6.0	± 5.2	15	-40 to 125						•	•	•		
74HCT273-Q100	Octal D-type flip-flop with reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	± 4	15	-40 to 125						•	•	•		
74HC377-Q100	Octal D-type flip-flop with data enable; positive-edge trigger	2.0 - 6.0	± 7.8	13	-40 to 125						•	•			
74HCT377-Q100	Octal D-type flip-flop with data enable; positive-edge trigger; TTL-enabled	4.5 - 5.5	± 6	14	-40 to 125						•	•			
74HC574-Q100	Octal D-type flip-flop; positive-edge trigger (3-state)	2.0 - 6.0	± 7.8	14	-40 to 125						•	•	•		
74HCT574-Q100	"Octal D-type flip-flop; positive-edge trigger; TTL-enabled (3-state)"	4.5 - 5.5	± 6	15	-40 to 125						•	•			
74LV74-Q100	Dual D-type flip-flop with set and reset; positive-edge trigger	1.0 - 5.5	± 12	11	-40 to 125	•	•								
74LVC74A-Q100	Dual D-type flip-flop with set and reset; positive-edge trigger	1.2 - 3.6	± 24	2.5	-40 to 125	•	•	•							
74LVC273-Q100	Octal D-type flip-flop with reset; positive-edge trigger	1.2 - 3.6	± 24	6	-40 to 125						•	•	•		
74LVC374A-Q100	Octal D-type flip-flop; positive-edge trigger (3-state)	1.2 - 3.6	± 24	2.7	-40 to 125						•	•	•		
74LVC573A-Q100	Octal D-type transparent latch (3-state)	1.2 - 3.6	± 24	3.4	-40 to 125						•	•	•		
74LVC16374A-Q100	16-bit D-type flip-flop; positive-edge trigger (3-state)	1.2 - 3.6	± 24	3.8	-40 to 125										•
74LVCH16374A-Q100	16-bit D-type flip-flop with bus hold; positive-edge trigger (3-state)	1.2 - 3.6	± 24	3.8	-40 to 125										•
HEF4013B-Q100	Dual D-type flip-flop with set and reset; positive-edge trigger	3.0 - 15	± 2.4	30	-40 to 85	•	•								
HEF4027B-Q100	Dual J-K flip-flop	3.0 - 15	± 2.4	30	-40 to 85				•						

Logic - Latches / Registered Drivers

Type number	Description	Features				Package (suffix)							
		V _{CC} (V)	I _O (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT109-1 (D)	SOT403-1 (PW)	SOT763-1 (BQ)	SOT163-1 (D)	SOT360-1 (PW)	SOT764-1 (BQ)	SOT362-1 (DGG)	SOT480-1 (DGV)
74AHC573-Q100	Octal D-type transparent latch (3-state)	2.0 - 5.5	± 8	4.2	-40 to 125				•	•	•		
74AHCT573-Q100	Octal D-type transparent latch; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.9	-40 to 125				•	•	•		
74HC259-Q100	8 bit addressable latch	2.0 - 6.0	± 5.2	18	-40 to 125	•	•	•					
74HCT259-Q100	8 bit addressable latch; TTL-enabled	4.5 - 5.5	± 4	20	-40 to 125	•	•	•					
74HC373-Q100	Octal D-type transparent latch (3-state)	2.0 - 6.0	± 7.8	12	-40 to 125				•	•	•		
74HCT373-Q100	Octal D-type transparent latch; TTL-enabled (3-state)	4.5 - 5.5	± 6	14	-40 to 125				•	•	•		
74HC573-Q100	Octal D-type transparent latch (3-state)	2.0 - 6.0	± 7.8	14	-40 to 125				•	•	•		
74HCT573-Q100	Octal D-type transparent latch; TTL-enabled (3-state)	4.5 - 5.5	± 6	17	-40 to 125				•	•	•		
74LVC373A-Q100	Octal D-type transparent latch (3-state)	1.2 - 3.6	± 24	3.0	-40 to 125				•	•	•		
74LVC16373A-Q100	16-bit D-type transparent latch (3-state)	1.2 - 3.6	± 24	2.4	-40 to 125							•	•
74LVCH16373A-Q100	16-bit D-type transparent latch with bushold (3-state)	1.2 - 3.6	± 24	2.4	-40 to 125							•	•
HEF4043B-Q100	Quad R/S latch with set and reset (3-state)	3.0 - 15	± 2.4	25	-40 to 85	•							

Logic - Shift Registers

Type number	Description	Features				Package (suffix)							
		V _{CC} (V)	I _O (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT108-1 (D)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT109-1 (D)	SOT403-1 (PW)	SOT763-1 (BQ)	SOT163-1 (D)	SOT360-1 (PW)
74AHC164-Q100	8-bit serial-in/parallel-out shift register	2.0 - 5.5	± 8	4.5	-40 to 125	•	•	•					
74AHC164-Q100	8-bit serial-in/parallel-out shift register; TTL-enabled	4.5 - 5.5	± 8	3.4	-40 to 125	•	•	•					
74AHC594-Q100	8-bit serial-in/parallel-out shift register with output register	2.0 - 5.5	± 8	4.1	-40 to 125				•	•	•		
74AHC594-Q100	8-bit serial-in/parallel-out shift register with output register; TTL-enabled	4.5 - 5.5	± 8	3.8	-40 to 125				•	•	•		
74AHC595-Q100	8-bit serial-in/parallel-out shift register with output register (3-state)	2.0 - 5.5	± 8	4.0	-40 to 125				•	•	•		
74AHC595-Q100	8-bit serial-in/parallel-out shift register with output storage; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.8	-40 to 125				•	•	•		
74HC164-Q100	8-bit serial-in/parallel-out shift register	2.0 - 6.0	± 5.2	12	-40 to 125	•	•	•					
74HCT164-Q100	8-bit serial-in/parallel-out shift register; TTL-enabled	4.5 - 5.5	± 4	12	-40 to 125	•	•	•					
74HC165-Q100	8-bit parallel or serial-in/serial-out shift register	2.0 - 6.0	± 5.2	16	-40 to 125				•	•	•		
74HCT165-Q100	8-bit parallel or serial-in/serial-out shift register; TTL-enabled	4.5 - 5.5	± 4	14	-40 to 125				•	•	•		
74HC166-Q100	8-bit parallel or serial-in/serial-out shift register	2.0 - 6.0	± 5.2	15	-40 to 125				•	•			
74HCT166-Q100	8-bit parallel or serial-in/serial-out shift register; TTL-enabled	4.5 - 5.5	± 4	23	-40 to 125				•				
74HC299-Q100	8-bit universal shift register; 3-state	2.0 - 6.0	± 7.8	15	-40 to 125							•	
74HC594-Q100	8-bit serial-in/parallel-out shift register with output storage register	2.0 - 6.0	± 7.8	14	-40 to 125	•	•	•					
74HCT594-Q100	8-bit serial-in/parallel-out shift register with output storage register; TTL-enabled	4.5 - 5.5	± 6	15	-40 to 125				•				
74HC595-Q100	8-bit serial-in/parallel-out shift register with output storage register (3-state)	2.0 - 6.0	± 7.8	16	-40 to 125				•	•	•		
74HCT595-Q100	8-bit serial-in/parallel-out shift register with output storage register; TTL-enabled (3-state)	4.5 - 5.5	± 6	25	-40 to 125				•	•	•		
74HC597-Q100	8-bit parallel or serial-in/parallel-out shift register with parallel input register	2.0 - 6.0	± 5.2	16	-40 to 125				•	•			
74HCT597-Q100	8-bit parallel or serial-in/parallel-out shift register with parallel input register; TTL-enabled	4.5 - 5.5	± 4	20	-40 to 125				•				
74HC4094-Q100	8-bit serial-in/serial or parallel-out shift register with output register (3-state)	2.0 - 6.0	± 5.2	15	-40 to 125				•	•			
74HCT4094-Q100	8-bit serial-in/serial or parallel-out shift register with output register; TTL-enabled (3-state)	4.5 - 5.5	± 4	19	-40 to 125				•				
74LV164-Q100	8-bit serial-in/parallel-out shift register	1.0 - 5.5	± 12	12	-40 to 125	•	•	•					
74LV165-Q100	8-bit parallel or serial-in/serial-out shift register	1.0 - 5.5	± 12	18	-40 to 125				•	•			
74LV165A-Q100	8-bit parallel or serial-in/serial-out shift register	1.0 - 5.5	± 12	7.5	-40 to 125				•	•			
74LVC594A-Q100	8-bit serial-in/parallel-out shift register with output storage register	1.2 - 5.5	± 24	3.1	-40 to 125				•	•	•		
74VHC595-Q100	8-bit serial-in/parallel-out shift register with output storage register (3-state)	2.0 - 5.5	± 8	4.0	-40 to 125				•	•	•		
74VHCT595-Q100	8-bit serial-in/parallel-out shift register with output storage register; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.8	-40 to 125				•	•	•		
HEF4014B-Q100	8-bit shift register with synchronous parallel enable	3.0 - 15	± 2.4	40	-40 to 85				•				
HEF4021B-Q100	8-bit shift register with asynchronous parallel load	3.0 - 15	± 2.4	40	-40 to 85				•	•			
HEF4094B-Q100	8-bit serial-in/serial or parallel-out shift register with output register (3-state)	3.0 - 15	± 2.4	50	-40 to 85				•	•			
HEF4794B-Q100	8-bit serial-in/serial or parallel-out shift register with output register LED driver (3-state)	3.0 - 15	-20	45	-40 to 85				•				
HEF4894B-Q100	12-bit serial-in/serial or parallel-out shift register with output register LED driver (3-state)	3.0 - 15	-20	45	-40 to 85							•	•

Logic - Counter / Frequency dividers

Type number	Description	Features				Package (suffix)					
		V _{cc} (V)	I _o (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT108-1 (D)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT109-1 (D)	SOT403-1 (PW)	SOT763-1 (BQ)
74HC161-Q100	Presetable synchronous 4-bit binary counter; asynchronous reset	2.0 - 6.0	± 5.2	19	-40 to 125				•	•	
74HC193-Q100	Presetable synchronous 4-bit binary up/down counter	2.0 - 6.0	± 5.2	20	-40 to 125				•	•	
74HCT193-Q100	Presetable synchronous 4-bit binary up/down counter; TTL-enabled	4.5 - 5.5	± 4.0	20	-40 to 125				•	•	
74HC393-Q100	Dual 4-bit binary ripple counter	2.0 - 6.0	± 5.2	12	-40 to 125	•	•	•			
74HCT393-Q100	Dual 4-bit binary ripple counter; TTL-enabled	4.5 - 5.5	± 4.0	20	-40 to 125	•	•	•			
74HC4017-Q100	Johnson decade counter with 10 decoded outputs	2.0 - 6.0	± 5.2	18	-40 to 125				•	•	•
74HCT4017-Q100	Johnson decade counter with 10 decoded outputs; TTL-enabled	4.5 - 5.5	± 4.0	21	-40 to 125				•		•
74HC4020-Q100	14-stage binary ripple counter	2.0 - 6.0	± 5.2	11	-40 to 125				•	•	•
74HCT4020-Q100	14-stage binary ripple counter; TTL-enabled	4.5 - 5.5	± 4.0	15	-40 to 125				•	•	•
74HC4024-Q100	7-stage binary ripple counter	2.0 - 6.0	± 5.2	14	-40 to 125	•					
74HC4040-Q100	12-stage binary ripple counter	2.0 - 6.0	± 5.2	14	-40 to 125				•	•	•
74HCT4040-Q100	12-stage binary ripple counter; TTL-enabled	4.5 - 5.5	± 4.0	16	-40 to 125				•	•	•
74HC4060-Q100	14-stage binary ripple counter with oscillator	2.0 - 6.0	± 5.2	31	-40 to 125				•	•	•
74HCT4060-Q100	14-stage binary ripple counter with oscillator; TTL-enabled	4.5 - 5.5	± 4.0	31	-40 to 125				•		•
74HC4520-Q100	Dual 4-bit synchronous binary counter	2.0 - 6.0	± 5.2	24	-40 to 125				•	•	
74HCT4520-Q100	Dual 4-bit synchronous binary counter; TTL-enabled	4.5 - 5.5	± 4.0	24	-40 to 125				•		
74LV393-Q100	Dual 4-bit binary ripple counter	1.0 - 3.6	± 6	12	-40 to 125	•	•				
74LV4060-Q100	14-stage binary ripple counter with oscillator	1.0 - 5.5	± 6	29	-40 to 125				•	•	
HEF4017B-Q100	5-stage Johnson decade counter	3.0 - 15	± 2.4	40	-40 to 85				•		
HEF4020B-Q100	14-stage binary ripple counter	3.0 - 15	± 2.4	30	-40 to 85				•		
HEF4040B-Q100	12-stage binary ripple counter	3.0 - 15	± 2.4	35	-40 to 85				•		
HEF4060B-Q100	14-stage binary ripple counter with oscillator	3.0 - 15	± 2.4	50	-40 to 85				•		
HEF4520B-Q100	Dual 4-bit synchronous binary counter	3.0 - 15	± 2.4	15	-40 to 85				•		
HEF4541B-Q100	Programmable timer	3.0 - 15	- 4/ + 2.7	38	-40 to 85	•					

Logic - Decoders / Demultiplexers

Type number	Description	Features				Package (suffix)			
		V _{CC} (V)	I _O (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT109-1 (D)	SOT403-1 (PW)	SOT763-1 (BQ)	SOT355-1 (PW)
74AHC138-Q100	3-to-8 line decoder/demultiplexer; inverting	2.0 - 5.5	± 8	4.4	-40 to 125	•	•	•	
74AHCT138-Q100	3-to-8 line decoder/demultiplexer; inverting; TTL-enabled	4.5 - 5.5	± 8	4.4	-40 to 125	•	•	•	
74AHC139-Q100	Dual 2-to-4 line decoder/demultiplexer	2.0 - 5.5	± 8	3.9	-40 to 125	•	•		
74AHCT139-Q100	Dual 2-to-4 line decoder/demultiplexer; TTL-enabled	4.5 - 5.5	± 8	3.6	-40 to 125	•	•		
74HC237-Q100	3-to-8 decoder/demultiplexer with address latches	2.0 - 6.0	± 5.2	18	-40 to 125	•			
74HC138-Q100	3-to-8 line decoder/demultiplexer; inverting	2.0 - 6.0	± 5.2	12	-40 to 125	•	•	•	
74HCT138-Q100	3-to-8 line decoder/demultiplexer; inverting; TTL-enabled	4.5 - 5.5	± 4	19	-40 to 125	•	•	•	
74HC139-Q100	Dual 2-to-4 line decoder/demultiplexer	2.0 - 6.0	± 5.2	14	-40 to 125	•	•		
74HCT139-Q100	Dual 2-to-4 line decoder/demultiplexer; TTL-enabled	4.5 - 5.5	± 4	16	-40 to 125	•	•		
74HC238-Q100	3-to-8 decoder/demultiplexer	2.0 - 6.0	± 5.2	14	-40 to 125	•	•	•	
74HCT238-Q100	3-to-8 decoder/demultiplexer; TTL-enabled	4.5 - 5.5	± 4	18	-40 to 125	•	•	•	
74HC4514-Q100	4-to-16 decoder/demultiplexer with address latches	2.0 - 6.0	± 5.2	27	-40 to 125				•
74LVC138A-Q100	3-to-8 line decoder/demultiplexer; inverting	1.2 - 3.6	± 24	2.7	-40 to 125	•	•	•	
HEF4555B-Q100	Dual 1-to-4 line decoder/demultiplexer	3.0 - 15	± 2.4	30	-40 to 85	•			

Logic - Digital Multiplexers

Type number	Description	Features				Package (suffix)		
		V _{CC} (V)	I _O (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT109-1 (D)	SOT403-1 (PW)	SOT763-1 (BQ)
74AHC157-Q100	Quad 2-input multiplexer	2.0 - 5.5	± 8	3.2	-40 to 125	•	•	•
74AHCT157-Q100	Quad 2-input multiplexer; TTL-enabled	4.5 - 5.5	± 8	3.2	-40 to 125	•	•	•
74AHC257-Q100	Quad 2-input multiplexer (3-State)	2.0 - 5.5	± 8	2.9	-40 to 125	•	•	
74AHCT257-Q100	Quad 2-input multiplexer; TTL-enabled (3-State)	4.5 - 5.5	± 8	3.7	-40 to 125	•	•	
74HC151-Q100	8-input multiplexer	2.0 - 6.0	± 5.2	17	-40 to 125	•	•	
74HCT151-Q100	8-input multiplexer; TTL-enabled	4.5 - 5.5	± 4	19	-40 to 125	•	•	
74HC153-Q100	Dual 4-input multiplexer	2.0 - 6.0	± 5.2	17	-40 to 125	•	•	
74HCT153-Q100	Dual 4-input multiplexer; TTL-enabled	4.5 - 5.5	± 4	19	-40 to 125	•	•	
74HC157-Q100	Quad 2-input multiplexer	2.0 - 6.0	± 5.2	11	-40 to 125	•	•	•
74HCT157-Q100	Quad 2-input multiplexer; TTL-enabled	4.5 - 5.5	± 4	13	-40 to 125	•	•	•
74HC251-Q100	8-input multiplexer (3-State)	2.0 - 6.0	± 5.2	18	-40 to 125	•	•	
74HCT251-Q100	8-input multiplexer; TTL-enabled (3-State)	4.5 - 5.5	± 4	22	-40 to 125	•	•	
74HC253-Q100	Dual 4-input multiplexer (3-State)	2.0 - 6.0	± 7.8	17	-40 to 125	•		
74HCT253-Q100	Dual 4-input multiplexer; TTL-enabled (3-State)	4.5 - 5.5	± 6	17	-40 to 125	•		
74HC257-Q100	Quad 2-input multiplexer (3-State)	2.0 - 6.0	± 7.8	11	-40 to 125	•	•	
74HCT257-Q100	Quad 2-input multiplexer; TTL-enabled (3-State)	4.5 - 5.5	± 6	13	-40 to 125	•	•	
74LVC157A-Q100	Quad 2-input multiplexer	1.2 - 3.6	± 24	2.5	-40 to 125	•	•	•

Logic - Specialty Logic

Type number	Description	Features				Package (suffix)		
		V _{CC} (V)	I _o (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT109-1 (D)	SOT403-1 (PW)	SOT763-1 (BQ)
74AHC123A-Q100	Dual retriggerable monostable multivibrator with reset	2.0 - 5.5	± 8	5.1	-40 to 125	•	•	•
74AHC123A-Q100	Dual retriggerable monostable multivibrator with reset; TTL-enabled	4.5 - 5.5	± 8	5.0	-40 to 125	•	•	•
74HC123-Q100	Dual retriggerable monostable multivibrator with reset	2.0 - 6.0	± 7.8	9.0	-40 to 125	•	•	•
74HCT123-Q100	Dual retriggerable monostable multivibrator with reset; TTL-enabled	4.5 - 5.5	± 4	26	-40 to 125	•	•	
74HC4538-Q100	Dual retriggerable precision monostable multivibrator	2.0 - 6.0	± 5.2	27	-40 to 125	•	•	
74HCT4538-Q100	Dual retriggerable precision monostable multivibrator; TTL-enabled	4.5 - 5.5	± 4	30	-40 to 125	•	•	
HEF4047B-Q100	Retriggerable astable multivibrator	3.0 - 15	± 2.4	50	-40 to 85	•		
HEF4528B-Q100	Dual retriggerable monostable multivibrator with reset	3.0 - 15	± 2.4	40	-40 to 85	•		
HEF4538B-Q100	Dual retriggerable precision monostable multivibrator	3.0 - 15	± 2.4	60	-40 to 85	•		

Voltage translators (Level-shifters)

Type number	Description	Features				Package (suffix)														
		V _{CC(A)} (V)	V _{CC(B)} (V)	I _o (mA)	T _{amb} (°C)	SOT402-1 (PW)	SOT109-1 (D)	SOT1174-1 (GU12)	SOT403-1 (PW)	SOT763-1 (BQ)	SOT355-1 (PW)	SOT815-1 (BQ)	SOT362-1 (DGG)	SOT480-1 (DGV)	SOT364-1 (DGG)	SOT360-1 (PW)	SOT764-1 (BQ)	SOT762-1 (BQ)	SOT1161-1 (GU)	
74ALVC164245-Q100	16-bit dual-supply voltage level translating transceiver (3-state)	1.5 - 5.5	1.5 - 3.6	± 24	-40 to 125															
74AVC4T245-Q100	4-bit dual-supply voltage level translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125		•		•	•										•
74AVC4T3144-Q100	4-bit dual-supply voltage-translating buffer (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125			•												
74AVC4T774-Q100	4-bit dual supply translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125				•	•										•
74AVC8T245-Q100	8-bit dual-supply voltage level translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125						•	•								
74AVC16T245-Q100	16-bit dual-supply voltage level translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125								•							
74AVCH4T245-Q100	4-bit dual-supply voltage translating transceiver with bus hold (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125		•		•	•										
74HC4050-Q100	Hex buffer with 15V tolerant inputs	2.0 - 6.0	n.a	± 5.2	-40 to 125		•		•											
74LVC4T3144-Q100	4-bit dual supply buffer/line driver (3-state)	1.2 to 5.5	1.2 to 5.5	± 24	-40 to 125	•														
74LVC4245A-Q100	8-bit dual-supply voltage translating transceiver (3-state)	1.5 - 5.5	1.5 - 3.6	± 24	-40 to 125						•	•								
74LVC8T245-Q100	8-bit dual-supply voltage translating transceiver (3-state)	1.2 - 5.5	1.2 - 5.5	± 24	-40 to 125						•	•								
74LVCH8T245-Q100	8-bit dual-supply voltage translating transceiver with bus hold (3-state)	1.2 - 5.5	1.2 - 5.5	± 24	-40 to 125						•	•								
HEF4104B-Q100	Quad low-to-high voltage translator (3-state)	3.0 - 15.0	3.0 - 15.0	± 2.4	-40 to 85		•													
LSF0108-Q100	8-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	+64	-40 to 125												•	•		
LSF0204-Q100	4-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	+64	-40 to 125	•		•												
NXB0104-Q100	4-bit Dual supply translating transceiver; auto direction sensing; 3-state	1.2 - 3.6	1.65 - 5.5	± 0.02	-40 to 125	•		•												•
NXB0106-Q100	6-bit Dual supply translating transceiver; auto direction sensing; 3-state	1.2 - 3.6	1.65 - 5.5	± 0.02	-40 to 125				•	•										
NXB0108-Q100	8-bit Dual supply translating transceiver; auto direction sensing; 3-state	1.2 - 3.6	1.65 - 5.5	± 0.02	-40 to 125												•	•		
NXS0104-Q100	4-bit Dual supply translating transceiver; open drain; auto direction sensing	1.65 - 3.6	2.3 - 5.5	-0.02/+1	-40 to 125	•		•												•
NXS0108-Q100	8-bit Dual supply translating transceiver; open drain; auto direction sensing	1.65 - 3.6	2.3 - 5.5	-0.02/+1	-40 to 125												•	•		

Analog Switches and Multiplexers - Analog switches

Type number	Description	Features					Package (suffix)							
		Configuration	V _{cc} (V)	R _{ON} (Ω)	R _{ON} (FLAT) (Ω)	T _{amb} (°C)	SOT108-1 (D)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT109-1 (D)	SOT403-1 (PW)	SOT763-1 (BQ)	SOT355-1 (PW)	SOT815-1 (BQ)
74HC4051-Q100	Single-pole, octal-throw analog switch	SP8T-Z	2.0 - 10.0	200	20	-40 to 125				•	•	•		
74HCT4051-Q100	Single-pole, octal-throw analog switch; TTL-enabled	SP8T-Z	4.5 - 5.5	225	20	-40 to 125				•	•	•		
74HC4052-Q100	Dual single-pole, quad-throw analog switch	SP4T-Z	2.0 - 10.0	200	20	-40 to 125				•	•	•		
74HCT4052-Q100	Dual single-pole, quad-throw analog switch; TTL-enabled	SP4T-Z	4.5 - 5.5	200	20	-40 to 125				•	•	•		
74HC4053-Q100	Triple single-pole, double-throw analog switch	SP8T-Z	2.0 - 10.0	200	20	-40 to 125				•	•	•		
74HCT4053-Q100	Triple single-pole, double-throw analog switch; TTL-enabled	SP8T-Z	4.5 - 5.5	200	20	-40 to 125				•	•	•		
74HC4066-Q100	Quad single-pole, single-throw analog switch	SPST-NO	2.0 - 10.0	105	23	-40 to 125	•	•	•					
74HCT4066-Q100	Quad single-pole, single-throw analog switch; TTL-enabled	SPST-NO	4.5 - 5.5	118	23	-40 to 125	•	•	•					
74HC4067-Q100	Single-pole, 16-throw analog switch	SP16T-Z	2.0 - 10.0	200	25	-40 to 125							•	•
74HCT4067-Q100	Single-pole, 16-throw analog switch; TTL-enabled	SP16T-Z	4.5 - 5.5	225	25	-40 to 125							•	•
74HC4851-Q100	Single-pole, octal-throw analog switch	SP8T-Z	2.0 - 10.0	220	-	-40 to 125				•	•	•		
74HCT4851-Q100	Single-pole, octal-throw analog switch; TTL-enabled	SP8T-Z	4.5 - 5.5	240	-	-40 to 125				•	•	•		
74HC4852-Q100	Dual single-pole, quad-throw analog switch	SP4T-Z	2.0 - 10.0	220	-	-40 to 125				•	•	•		
74HCT4852-Q100	Dual single-pole, quad-throw analog switch; TTL-enabled	SP4T-Z	4.5 - 5.5	240	-	-40 to 125				•	•	•		
74LV4051PW-Q100	8-channel analog multiplexer/demultiplexer	SP8T-Z	1.0 - 6.0	135	35	-40 to 125					•			
74LV4052-Q100	Dual single-pole, quad-throw analog switch	SP4T-Z	1.0 - 6.0	125	15	-40 to 125				•	•			
74LV4053-Q100	Triple single-pole, double-throw analog switch	SPDT-Z	1.0 - 6.0	150	30	-40 to 125				•	•	•		
74LVC4066-Q100	Quad single-pole, single-throw analog switch	SPST-NO	1.65 - 5.5	15	1.5	-40 to 125	•	•	•					
HEF4051B-Q100	Single-pole, octal-throw analog switch	SP8T-Z	3.0 - 15	175	30	-40 to 85				•	•			
HEF4052B-Q100	Dual single-pole, quad-throw analog switch	SP4T-Z	3.0 - 15	175	30	-40 to 85				•	•			
HEF4053B-Q100	Triple single-pole, double-throw analog switch	SPDT-Z	3.0 - 15	175	30	-40 to 85				•	•			
HEF4066B-Q100	Quad single-pole, single-throw analog switch	SPST-NO	3.0 - 15	175	20	-40 to 85	•							
HEF4067B-Q100	Single-pole, 16-throw analog switch	SP16T-Z	3.0 - 15	175	20	-40 to 85							•	

Analog Switches and Multiplexers - Bus switches

Type number	Description	Features				Package (suffix)							
		V_{CC} (V)	V_{PASS} (V)	R_{ON} (Ω)	T_{amb} ($^{\circ}$ C)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT109-1 (D)	SOT403-1 (PW)	SOT763-1 (BQ)	SOT163-1 (D)	SOT360-1 (PW)	SOT764-1 (BQ)
74CBTLV3125-Q100	Quad bus switch	2.3 - 3.6	3.3	7	-40 to 125	•	•			•			
74CBTLV3126-Q100	Quad bus switch	2.3 - 3.6	3.3	7	-40 to 125	•	•						
74CBTLV3244-Q100	4-bit bus switch with four output enables	2.3 - 3.6	3.3	7	-40 to 125								•
74CBTLV3245-Q100	8-bit bus switch with one output enable	2.3 - 3.6	3.3	7	-40 to 125							•	•
74CBTLVD3245-Q100	Octal bus switch level translator	3.0 - 3.6	1.8	7	-40 to 125							•	•
CBT3245A-Q100	Octal bus switch	4.0 - 5.5	3.9	7	-40 to 85								•

Analog Switches and Multiplexers - Multiplexers / Demultiplexers

Type number	Description	Features				Package (suffix)							
		V_{CC} (V)	V_{PASS} (V)	R_{ON} (Ω)	T_{amb} ($^{\circ}$ C)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT109-1 (D)	SOT403-1 (PW)	SOT763-1 (BQ)	SOT163-1 (D)	SOT360-1 (PW)	SOT764-1 (BQ)
74CB3Q3257-Q100	Quad 1-of-2 FET multiplexer/demultiplexer with charge pump	2.3 - 3.6	3.3	4	-40 to 85				•				
74CBTLV3253-Q100	Dual 4:1 mux/demux	2.3 - 3.6	3.3	7	-40 to 125			•	•	•			
74CBTLV3257-Q100	Quad 2:1 mux/demux	2.3 - 3.6	3.3	7	-40 to 125			•	•	•			
CBT3257A-Q100	Quad 1-of-2 multiplexer/demultiplexer	4.0 - 5.5	3.9	7	-40 to 85				•			•	

Interface - I²C General Purpose I/O (GPIO)

Type number	Description	Features				Package (suffix)	
		$V_{CC(A)}$ (V)	$V_{CC(B)}$ (V)	I_O (mA)	T_{amb} ($^{\circ}$ C)	SOT355-1 (PW)	SOT804-1-1 (BY)
NCA9535-Q100	Low-voltage 16-Bit I ² C and SMBus low-power I/O expander with interrupt output and configuration registers	1.65 - 5.5	n.a.	- 10 / 25	-40~125	•	•
NCA9539-Q100	Low-voltage 16-Bit I ² C and SMBus low-power I/O expander with interrupt output, reset pin and configuration registers	1.65 - 5.5	n.a.	- 10 / 25	-40~125	•	•
NCA9555-Q100	Low-voltage 16-bit I ² C and SMBus I/O expander with interrupt output and configuration registers	1.65 - 5.5	n.a.	- 10 / 25	-40~125	•	•
NCA9595-Q100	Low voltage 16-Bit I ² C and SMBus I/O expander with interrupt output, configuration registers and programmable pull-up resistors	1.65 - 5.5	n.a.	- 10 / 25	-40~125	•	

Q100 Functions and Mini-Logic Packages (≤ 10 pins)

Logic - Buffers / Inverters

Type number	Description	Features				Package (suffix)							
		V _{CC} (V)	I _O (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT353-1 (GW)	SOT753 (GV)	SOT363 (GW)	SOT457 (GV)	SOT505-2 (DP)	SOT765-1 (DC)	SOT886 (GM)	SOT1202 (GS)
74AHC1GU04-Q100	Single inverter; unbuffered	2.0 - 5.5	± 8	2.6	-40 to 125	•	•						
74AHC3GU04-Q100	Triple inverter; unbuffered	2.0 - 5.5	± 8	2.5	-40 to 125					•	•		
74AHC1G04-Q100	Single inverter	2.0 - 5.5	± 8	3.1	-40 to 125	•	•						
74AHC1G04-Q100	Single inverter; TTL-enabled	4.5 - 5.5	± 8	3.4	-40 to 125	•	•						
74AHC1G07-Q100	Single buffer; open-drain	2.0 - 5.5	8	4.2	-40 to 125	•	•						
74AHC1G17-Q100	Single buffer with Schmitt-trigger inputs	2.0 - 5.5	± 8	3.2	-40 to 125	•							
74AHC1G17-Q100	Single buffer with Schmitt-trigger inputs; TTL-enabled	4.5 - 5.5	± 8	4.1	-40 to 125	•							
74AHC1G125-Q100	Single buffer/line driver (3-state)	2.0 - 5.5	± 8	3.4	-40 to 125	•	•						
74AHC1G125-Q100	Single buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.4	-40 to 125	•	•						
74AHC1G126-Q100	Single buffer/line driver (3-state)	2.0 - 5.5	± 8	3.4	-40 to 125	•	•						
74AHC1G126-Q100	Single buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.4	-40 to 125	•	•						
74AHC2G125-Q100	Dual buffer/line driver (3-state)	2.0 - 5.5	± 8	3.4	-40 to 125					•	•		
74AHC2G125-Q100	Dual buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.4	-40 to 125					•	•		
74AHC2G126-Q100	Dual buffer/line driver (3-state)	2.0 - 5.5	± 8	3.4	-40 to 125					•	•		
74AHC2G126-Q100	Dual buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.4	-40 to 125						•		
74AHC2G241-Q100	Dual buffer/line driver (3-state)	2.0 - 5.5	± 8	3.4	-40 to 125					•	•		
74AHC2G241-Q100	Dual buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.4	-40 to 125						•		
74AHC3G04-Q100	Triple inverter	2.0 - 5.5	± 8	3.1	-40 to 125					•	•		
74AHC3G04-Q100	Triple inverter; TTL-enabled	4.5 - 5.5	± 8	3.0	-40 to 125						•		
74AUP1G04-Q100	Single inverter	1.1 - 3.6	± 1.9	4.0	-40 to 125	•	•						
74AUP1G06-Q100	Single inverter; open-drain	1.1 - 3.6	1.9	4.5	-40 to 125	•							
74AUP1G07-Q100	Buffer; open-drain	0.8 - 3.6	1.9	4.5	-40 to 125	•							
74AUP1G34-Q100	Single buffer	1.1 - 3.6	± 1.9	3.9	-40 to 125	•							
74AUP1G125-Q100	Single buffer/line driver (3-state)	1.1 - 3.6	± 1.9	4.3	-40 to 125	•						•	•
74AUP2G04-Q100	Dual inverter	1.1 - 3.6	± 1.9	4.0	-40 to 125			•					
74AUP2GU04-Q100	Dual inverter; unbuffered	1.1 - 3.6	± 1.9	2.3	-40 to 125			•				•	
74HC1GU04-Q100	Single inverter; unbuffered	2.0 - 6.0	± 2.6	5.0	-40 to 125	•	•						
74HC2GU04-Q100	Dual inverter; unbuffered	2.0 - 6.0	± 5.2	5.0	-40 to 125			•	•				
74HC3GU04-Q100	Triple inverter; unbuffered	2.0 - 6.0	± 5.2	6.0	-40 to 125					•	•		
74HC1G04-Q100	Single inverter	2.0 - 6.0	± 2.6	7.0	-40 to 125	•	•						
74HCT1G04-Q100	Single inverter; TTL-enabled	4.5 - 5.5	± 2.0	8.0	-40 to 125	•	•						
74HC1G125-Q100	Single buffer/line driver (3-state)	2.0 - 6.0	± 2.6	9.0	-40 to 125	•	•						
74HCT1G125-Q100	Single buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 2.0	10	-40 to 125	•	•						

Logic - Buffers / Inverters

Type number	Description	Features				Package (suffix)							
		V _{CC} (V)	I _O (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT353-1 (GW)	SOT753 (GV)	SOT363 (GW)	SOT457 (GV)	SOT505-2 (DP)	SOT765-1 (DC)	SOT886 (GM)	SOT1202 (GS)
74HC2G04-Q100	Dual inverter	2.0 - 6.0	± 5.2	8.0	-40 to 125			•	•				
74HCT2G04-Q100	Dual inverter; TTL-enabled	4.5 - 5.5	± 4.0	10	-40 to 125			•	•				
74HC2G34-Q100	Dual buffer	2.0 - 6.0	± 5.2	9.0	-40 to 125			•	•				
74HCT2G34-Q100	Dual buffer; TTL-enabled	4.5 - 5.5	± 4.0	10	-40 to 125			•	•				
74HC2G125-Q100	Dual buffer/line driver (3-state)	2.0 - 6.0	± 5.2	10	-40 to 125					•	•		
74HCT2G125-Q100	Dual buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 4.0	12	-40 to 125					•	•		
74HC3G04-Q100	Triple inverter	2.0 - 6.0	± 5.2	8.0	-40 to 125					•	•		
74HCT3G04-Q100	Triple inverter; TTL-enabled	4.5 - 5.5	± 4.0	10	-40 to 125					•	•		
74HC3G07-Q100	Triple buffer; open-drain	2.0 - 6.0	5.2	9.0	-40 to 125					•	•		
74HCT3G07-Q100	Triple buffer; open-drain; TTL-enabled	4.5 - 5.5	4	9.0	-40 to 125					•	•		
74HC3G34-Q100	Triple buffer	2.0 - 6.0	± 5.2	9.0	-40 to 125					•	•		
74HCT3G34-Q100	Triple buffer; TTL-enabled	4.5 - 5.5	± 4.0	10	-40 to 125					•	•		
74LV1T04-Q100	Single supply translating inverter	1.6 - 5.5	± 8.0	6.2	-40 to 125	•	•						
74LV1T34-Q100	Single supply translating buffer	1.6 - 5.5	± 8.0	6.3	-40 to 125	•	•						
74LVC1G04-Q100	Single inverter	1.65 - 5.5	± 32	2.0	-40 to 125	•	•						
74LVC1G16-Q100	Single buffer	1.65 - 5.5	± 32	2.0	-40 to 125	•							
74LVC1G06-Q100	Single inverter; open-drain	1.65 - 5.5	32	2.3	-40 to 125	•	•						
74LVC1G07-Q100	Single buffer; open-drain	1.65 - 5.5	32	2.2	-40 to 125	•	•						•
74LVC1G34-Q100	Single buffer	1.65 - 5.5	± 32	2.0	-40 to 125	•	•						
74LVC1G125-Q100	Single buffer/line driver (3-state)	1.65 - 5.5	± 32	2.1	-40 to 125	•	•					•	
74LVC1G126-Q100	Single buffer/line driver (3-state)	1.65 - 5.5	± 32	2.0	-40 to 125	•	•						
74LVC1G240-Q100	Single inverter/line driver (3-state)	1.65 - 5.5	± 32	2.1	-40 to 125	•							
74LVC1GU04-Q100	Single inverter; unbuffered	1.65 - 5.5	± 32	1.6	-40 to 125	•	•						
74LVC2G04-Q100	Dual inverter	1.65 - 5.5	± 32	2.7	-40 to 125			•	•				•
74LVC2G06-Q100	Dual inverter; open-drain	1.65 - 5.5	32	2.3	-40 to 125			•	•				
74LVC2G07-Q100	Dual buffer; open-drain	1.65 - 5.5	32	2.6	-40 to 125			•	•				
74LVC2G34-Q100	Dual buffer	1.65 - 5.5	± 32	2.3	-40 to 125	•	•					•	
74LVC2G125-Q100	Dual buffer/line driver (3-state)	1.65 - 5.5	± 32	2.3	-40 to 125					•	•		
74LVC2G126-Q100	Dual buffer/line driver (3-state)	1.65 - 5.5	± 32	2.4	-40 to 125					•	•		
74LVC2G240-Q100	Dual inverter/line driver (3-state)	1.65 - 5.5	± 32	2.5	-40 to 125					•	•		
74LVC2G241-Q100	Dual buffer/line driver (3-state)	1.65 - 5.5	± 32	2.6	-40 to 125					•	•		
74LVC2GU04-Q100	Dual inverter; unbuffered	1.65 - 5.5	± 32	2.3	-40 to 125			•	•	•			
74LVC3G04-Q100	Triple inverter	1.65 - 5.5	± 32	2.7	-40 to 125					•	•		
74LVC3G07-Q100	Triple buffer; open-drain	1.65 - 5.5	32	2.1	-40 to 125					•	•		
74LVC3G34-Q100	Triple buffer	1.65 - 5.5	± 32	2.2	-40 to 125					•	•		

Logic - Gates

Type number	Description	Features				Package (suffix)								
		V _{CC} (V)	I _b (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT353-1 (GW)	SOT753 (GV)	SOT363 (GW)	SOT457 (GV)	SOT505-2 (DP)	SOT765-1 (DC)	SOT886 (GM)	SOT1203 (GS)	SOT1160 (GU)
74AHC1G09-Q100	Single 2-input AND gate; open-drain	2.0 - 5.5	± 8	3.2	-40 to 125	•	•							
74AHC1G00-Q100	Single 2-input NAND gate	2.0 - 5.5	± 8	3.5	-40 to 125	•	•							
74AHC1G00-Q100	Single 2-input NAND gate; TTL-enabled	4.5 - 5.5	± 8	3.6	-40 to 125	•	•							
74AHC1G02-Q100	Single 2-input NOR gate	2.0 - 5.5	± 8	3.2	-40 to 125	•	•							
74AHC1G02-Q100	Single 2-input NOR gate; TTL-enabled	4.5 - 5.5	± 8	3.5	-40 to 125	•	•							
74AHC1G08-Q100	Single 2-input AND gate	2.0 - 5.5	± 8	3.2	-40 to 125	•	•							
74AHC1G08-Q100	Single 2-input AND gate; TTL-enabled	4.5 - 5.5	± 8	3.6	-40 to 125	•	•							
74AHC1G32-Q100	Single 2-input OR gate	2.0 - 5.5	± 8	3.2	-40 to 125	•	•							
74AHC1G32-Q100	Single 2-input OR gate; TTL-enabled	4.5 - 5.5	± 8	3.3	-40 to 125	•	•							
74AHC1G86-Q100	2-input EXCLUSIVE-OR gate	2.0 - 5.5	± 8	3.4	-40 to 125	•	•							
74AHC1G86-Q100	2-input EXCLUSIVE-OR gate; TTL-enabled	4.5 - 5.5	± 8	3.5	-40 to 125	•	•							
74AHC2G00-Q100	Dual 2-input NAND gate	2.0 - 5.5	± 8	3.5	-40 to 125					•	•			
74AHC2G00-Q100	Dual 2-input NAND gate; TTL-enabled	4.5 - 5.5	± 8	3.6	-40 to 125						•			
74AHC2G08-Q100	Dual 2-input AND gate	2.0 - 5.5	± 8	3.2	-40 to 125					•	•			
74AHC2G08-Q100	Dual 2-Input AND gate; TTL-enabled	4.5 - 5.5	± 8	3.6	-40 to 125						•	•		
74AHC2G32-Q100	Dual 2-input OR gate	2.0 - 5.5	± 8	3.2	-40 to 125						•	•		
74AHC2G32-Q100	Dual 2-input OR gate; TTL-enabled	4.5 - 5.5	± 8	3.3	-40 to 125							•	•	
74AUP1G00-Q100	Single 2-input NAND gate	1.1 - 3.6	± 1.9	8.3	-40 to 125	•								
74AUP1G02-Q100	Single 2-input NOR gate	1.1 - 3.6	± 1.9	8.2	-40 to 125	•								
74AUP1G08-Q100	Single 2-input AND gate	1.1 - 3.6	± 1.9	8.2	-40 to 125	•							•	
74AUP1G09-Q100	Single 2-input AND gate; open-drain	2.0 - 5.5	± 8	3.2	-40 to 125	•								
74AUP1G32-Q100	Single 2-input OR gate	1.1 - 3.6	± 1.9	7.9	-40 to 125	•							•	
74AUP1G86-Q100	Single 2-input EXCLUSIVE-OR gate	1.1 - 3.6	± 1.9	3.3	-40 to 125	•								
74AUP1Z04-Q100	Crystal driver with enable and internal resistor	1.1 - 3.6	± 1.9	5.6	-40 to 125			•						
74AUP2G00-Q100	Dual 2-input NAND gate	1.1 - 3.6	± 1.9	8.3	-40 to 125						•			
74AUP2G57-Q100	Configurable gate; Schmitt-trigger	1.1 - 3.6	± 1.9	8.7	-40 to 125									•
74HC1G86-Q100	Single 2-input EXCLUSIVE-OR gate	2.0 - 6.0	± 2.6	9.0	-40 to 125	•	•							
74HCT1G86-Q100	Single 2-input EXCLUSIVE-OR gate	4.5 - 5.5	± 2	10	-40 to 125	•	•							
74HC1G00-Q100	Single 2-input NAND gate	2.0 - 6.0	± 2.6	7.0	-40 to 125	•	•							
74HCT1G00-Q100	Single 2-input NAND gate; TTL-enabled	4.5 - 5.5	± 2	10	-40 to 125	•	•							
74HC1G02-Q100	Single 2-input NOR gate	2.0 - 6.0	± 2.6	7.0	-40 to 125	•	•							
74HCT1G02-Q100	Single 2-input NOR gate; TTL-enabled	4.5 - 5.5	± 2.0	9.0	-40 to 125	•	•							
74HC1G08-Q100	Single 2-input AND gate	2.0 - 6.0	± 5.2	7.0	-40 to 125	•	•							
74HCT1G08-Q100	Single 2-input AND gate; TTL-enabled	4.5 - 5.5	± 2	11	-40 to 125	•	•							
74HC1G32-Q100	Single 2-input OR gate	2.0 - 6.0	± 2.6	8.0	-40 to 125	•	•							
74HCT1G32-Q100	Single 2-input OR gate; TTL-enabled	4.5 - 5.5	± 2.0	10	-40 to 125	•	•							
74HC2G00-Q100	Dual 2-input NAND gate	2.0 - 6.0	± 5.6	9.0	-40 to 125						•	•		
74HCT2G00-Q100	Dual 2-input NAND gate; TTL-enabled	4.5 - 5.5	± 4	12	-40 to 125							•	•	
74HC2G02-Q100	Dual 2-input NOR gate	2.0 - 6.0	± 5.2	9.0	-40 to 125							•	•	

Logic - Gates

Type number	Description	Features				Package (suffix)							
		V _{CC} (V)	I _O (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT353-1 (GW)	SOT753 (GV)	SOT363 (GW)	SOT457 (GV)	SOT505-2 (DP)	SOT765-1 (DC)	SOT886 (GM)	SOT1203 (GS)
74HCT2G02-Q100	Dual 2-input NOR gate; TTL-enabled	4.5 - 5.5	± 4	12	-40 to 125					•	•		
74HC2G08-Q100	Dual 2-input AND gate	2.0 - 6.0	± 5.2	9.0	-40 to 125					•	•		
74HCT2G08-Q100	Dual 2-Input AND gate; TTL-enabled	4.5 - 5.5	± 4	14	-40 to 125					•	•		
74HC2G32-Q100	Dual 2-input OR gate	2.0 - 6.0	± 5.2	9.0	-40 to 125					•	•		
74HCT2G32-Q100	Dual 2-input OR gate; TTL-enabled	4.5 - 5.5	± 4.0	13	-40 to 125					•	•		
74HC2G86-Q100	Dual 2-input EXCLUSIVE-OR gate	2.0 - 6.0	± 5.2	9.0	-40 to 125					•	•		
74HCT2G86-Q100	Dual 2-input EXCLUSIVE-OR gate; TTL-enabled	4.5 - 5.5	± 4.0	11	-40 to 125					•	•		
74LVC1G00-Q100	Single 2-input NAND gate	1.65 - 5.5	± 32	2.2	-40 to 125	•	•						
74LVC1G02-Q100	Single 2-input NOR gate	1.65 - 5.5	± 32	2.1	-40 to 125	•	•						
74LVC1G08-Q100	Single 2-input AND gate	1.65 - 5.5	± 32	2.1	-40 to 125	•	•					•	
74LVC1G10-Q100	Single 3-input NAND gate	1.65 - 5.5	± 32	2.6	-40 to 125			•					
74LVC1G11-Q100	Single 3-input AND gate	1.65 - 5.5	± 32	2.6	-40 to 125			•	•				
74LVC1G27-Q100	Single 3-input NOR gate	1.65 - 5.5	± 32	2.6	-40 to 125			•					
74LVC1G32-Q100	Single 2-input OR gate	1.65 - 5.5	± 32	2.1	-40 to 125	•	•					•	
74LVC1G38-Q100	Single 2-input NAND gate; open-drain	1.65 - 5.5	32	2.3	-40 to 125	•	•						
74LVC1G57-Q100	Configurable gate; Schmitt-trigger	1.65 - 5.5	± 32	3.8	-40 to 125			•	•				
74LVC1G58-Q100	Configurable gate; Schmitt-trigger	1.65 - 5.5	± 32	3.8	-40 to 125			•	•				
74LVC1G86-Q100	Single 2-input EXCLUSIVE-OR gate	1.65 - 5.5	± 32	2.4	-40 to 125	•	•						
74LVC1G97-Q100	Configurable gate; Schmitt-trigger	1.65 - 5.5	± 32	6.3	-40 to 125			•					
74LVC1G98-Q100	Configurable gate; Schmitt-trigger	1.65 - 5.5	± 32	6.3	-40 to 125				•				
74LVC1G332-Q100	Single 3-input OR gate	1.65 - 5.5	± 32	2.6	-40 to 125			•	•				
74LVC1GX04-Q100	Crystal driver	1.65 - 5.5	± 24	2.8	-40 to 125			•	•				
74LVC2G00-Q100	Dual 2-input NAND gate	1.65 - 5.5	± 32	2.2	-40 to 125						•		
74LVC2G02-Q100	Dual 2-input NOR gate	1.65 - 5.5	± 32	2.4	-40 to 125					•	•		
74LVC2G08-Q100	Dual 2-input AND gate	1.65 - 5.5	± 24	2.1	-40 to 125					•	•		•
74LVC2G32-Q100	Dual 2-input OR gate	1.65 - 5.5	± 32	2.2	-40 to 125					•	•		
74LVC2G86-Q100	Dual 2-input EXCLUSIVE-OR gate	1.65 - 5.5	± 32	2.3	-40 to 125					•	•		

Logic - Schmitt-trigger IC's

Type number	Description	Features				Package (suffix)							
		V _{CC} (V)	I _o (mA)	t _{prop} (ns)	T _{amb} (°C)	SOT353-1 (GW)	SOT753 (GV)	SOT363 (GW)	SOT457 (GV)	SOT505-2 (DP)	SOT765-1 (DC)	SOT886 (GM)	SOT1269-2 (GX4)
74AHC1G14-Q100	Single inverter Schmitt-trigger	2.0 - 5.5	± 8	3.2	-40 to 125	•	•						
74AHCT1G14-Q100	Single inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 8	4.1	-40 to 125	•	•						
74AHC3G14-Q100	Triple inverter Schmitt-trigger	2.0 - 5.5	± 8	3.2	-40 to 125					•	•		
74AHCT3G14-Q100	Triple inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 8	4.1	-40 to 125					•	•		
74AUP1G14-Q100	Low-power Schmitt trigger inverter	0.8 - 3.6	± 1.9	3.7	-40 to 125								•
74AUP1G17-Q100	Low-power Schmitt trigger	0.8 - 3.6	± 1.9	3.6	-40 to 125	•							
74AUP1G132-Q100	Single 2-input NAND gate; Schmitt-trigger	1.1 - 3.6	± 1.9	10	-40 to 125	•							
74HC1G14-Q100	Single inverter Schmitt-trigger	2.0 - 6.0	± 2.6	10	-40 to 125	•	•						
74HCT1G14-Q100	Single inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 2.0	15	-40 to 125	•	•						
74HC2G14-Q100	Dual inverter Schmitt-trigger	2.0 - 6.0	± 5.2	16	-40 to 125			•	•				
74HCT2G14-Q100	Dual inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 4.0	21	-40 to 125			•	•				
74HC2G17-Q100	Dual buffer Schmitt-trigger	2.0 - 6.0	± 5.2	12	-40 to 125			•	•				
74HCT2G17-Q100	Dual buffer Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 4.0	21	-40 to 125			•	•				
74HC3G14-Q100	Triple inverter Schmitt-trigger	2.0 - 6.0	± 5.2	16	-40 to 125					•	•		
74HCT3G14-Q100	Triple inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 4.0	21	-40 to 125					•	•		
74LVC1G14-Q100	Single inverter Schmitt-trigger	1.65 - 5.5	± 32	3.0	-40 to 125	•	•					•	•
74LVC1G17-Q100	Single buffer Schmitt-trigger	1.65 - 5.5	± 32	3.0	-40 to 125	•	•					•	
74LVC2G14-Q100	Dual inverter Schmitt-trigger	1.65 - 5.5	± 32	3.9	-40 to 125			•	•			•	
74LVC2G17-Q100	Dual buffer Schmitt-trigger	1.65 - 5.5	± 32	3.6	-40 to 125			•	•				
74LVC3G17-Q100	Triple buffer Schmitt-trigger	1.65 - 5.5	± 32	3.6	-40 to 125					•	•		

Logic - Flip-flops

Type number	Description	Features				Package (suffix)						
		V_{CC} (V)	I_o (mA)	t_{pd} (ns)	T_{amb} (°C)	SOT353-1 (GW)	SOT753 (GV)	SOT363 (GW)	SOT457 (GV)	SOT505-2 (DP)	SOT765-1 (DC)	SOT833 (GT)
74AHC1G79-Q100	Single D-type flip-flop; positive-edge trigger	2.0 - 5.5	± 8	3.5	-40 to 125	•	•					
74AHCT1G79-Q100	Single D-type flip-flop; positive-edge trigger; TTL-enabled	4.5 - 5.5	± 8	3.5	-40 to 125	•	•					
74AUP1G74-Q100	Single D-type flip-flop with set and reset; positive-edge trigger	1.1 - 3.6	± 1.9	8.1	-40 to 125							•
74AUP1G175-Q100	Single D flip-flop with reset; positive-edge trigger	1.1 - 3.6	± 1.9	7.4	-40 to 125			•				
74AUP1G374-Q100	Single D-type flip-flop; positive-edge trigger (3-state)	1.1 - 3.6	± 1.9	7.9	-40 to 125			•				
74AUP2G79-Q100	Dual D-type flip-flop; positive-edge trigger	1.1 - 3.6	± 1.9	8.5	-40 to 125							•
74LVC1G74-Q100	Single D-type flip-flop with set and reset; positive-edge trigger	1.65 - 5.5	± 32	3.5	-40 to 125						•	•
74LVC1G79-Q100	Single D-type flip-flop; positive-edge trigger	1.65 - 5.5	± 32	2.2	-40 to 125	•	•					
74LVC1G80-Q100	Single D-type flip-flop; positive-edge trigger	1.65 - 5.5	± 32	2.4	-40 to 125	•	•					
74LVC1G175-Q100	Single D flip-flop with reset; positive-edge trigger	1.65 - 5.5	± 32	3.1	-40 to 125			•	•			
74LVC2G74-Q100	Single D-type flip-flop with set and reset; positive-edge trigger	1.65 - 5.5	± 32	3.5	-40 to 125					•	•	

Logic - Latches / Registered Drivers

Type number	Description	Features				Package (suffix)
		V_{CC} (V)	I_o (mA)	t_{pd} (ns)	T_{amb} (°C)	SOT363 (GW)
74AUP1G373-Q100	Single D-type transparent latch (3-state)	1.1 - 3.6	±1.9	8.5	-40 to 125	•

Logic - Counter / Frequency dividers

Type number	Description	Features				Package (suffix)	
		V_{CC} (V)	Output drive capability (mA)	Logic switching levels	t_{pd} (ns)	T_{amb} (°C)	SOT353-1 (GW)
74AHC1G4208-Q100	08-stage divider and oscillator	2.0 - 5.5	±5.2	CMOS	14	-40 to 125	•
74AHC1G4210-Q100	10-stage divider and oscillator	2.0 - 5.5	±8	CMOS	14	-40 to 125	•
74AHC1G4212-Q100	12-stage divider and oscillator	2.0 - 5.5	±8	CMOS	20	-40 to 125	•
74AHC1G4214-Q100	14-stage divider and oscillator	2.0 - 5.5	±8	CMOS	23	-40 to 125	•
74AHC1G4215-Q100	15-stage divider and oscillator	2.0 - 5.5	±8	CMOS	24	-40 to 125	•

Logic - Decoders / Demultiplexers

Type number	Description	Features				Package (suffix)	
		V_{cc} (V)	I_o (mA)	t_{pd} (ns)	T_{amb} (°C)	SOT363 (GW)	SOT457 (GV)
74LVC1G18-Q100	1-to-2 demultiplexer (3-state)	1.65 - 5.5	± 32	2.3	-40 to 125	•	•
74LVC1G19-Q100	1-to-2 demultiplexer	1.65 - 5.5	± 32	1.8	-40 to 125	•	

Logic - Digital Multiplexers

Type number	Description	Features				Package (suffix)		
		V_{cc} (V)	I_o (mA)	t_{pd} (ns)	T_{amb} (°C)	SOT363 (GW)	SOT457 (GV)	SOT886 (GM)
74AUP1G157-Q100	Single 2-input multiplexer	1.1 - 3.6	± 1.9	3.2	-40 to 125			•
74LVC1G157-Q100	Single 2-input multiplexer	1.65 - 5.5	± 32	2.2	-40 to 125	•	•	

Logic - Specialty Logic

Type number	Description	Features				Package (suffix)	
		V_{cc} (V)	I_o (mA)	t_{pd} (ns)	T_{amb} (°C)	SOT505-2 (DP)	SOT765-1 (DC)
74LVC1G123-Q100	Single retriggerable monostable multivibrator	1.65 - 5.5	± 32	3.5	-40 to 125	•	•

Voltage Translator (Level-shifters)

Type number	Description	Features				Package (suffix)											
		V _{cc} (A) (V)	V _{cc} (B) (V)	I _o (mA)	T _{amb} (°C)	SOT353-1 (GW)	SOT363 (GW)	SOT753 (GV)	SOT505-2 (DP)	SOT765-1 (DC)	SOT552-1 (DP)	SOT833-1 (GT)	SOT886 (GM)	SOT1202 (GS)	SOT1203 (GS)	SOT1160-1 (GU)	
74AUP1T08-Q100	2-input AND gate with voltage-level translator	2.3 - 3.6	n.a	± 1.9	-40 to 125	•											
74AUP1T34-Q100	Single dual supply translating buffer	1.1 - 3.6	1.1 - 3.6	± 1.9	-40 to 125	•							•				
74AUP1T97-Q100	Configurable gate with voltage level translation	2.3 - 3.6	n.a	± 1.9	-40 to 125		•										
74AUP1T98-Q100	Configurable gate with voltage level translation	2.3 - 3.6	n.a.	± 1.9	-40 to 125		•										
74AVC1T45-Q100	Single dual-supply voltage level translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125		•						•	•			
74AVCH1T45-Q100	Single dual-supply voltage translating transceiver with bus hold (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125		•										
74AVC2T45-Q100	Dual-bit dual-supply voltage level translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125				•	•		•					
74AVCH2T45-Q100	Dual-bit dual-supply voltage translating transceiver with bus hold (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125					•							
74AVC2T245-Q100	Dual-bit dual-supply voltage level translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125												•
74LV1T04-Q100	Single supply translating inverter	1.6 - 5.5	n.a	± 8	-40 to 125	•											
74LV1T125-Q100	Single supply translating buffer/line driver; 3-state	1.6 - 5.5	n.a.	± 8	-40 to 125	•											
74LV1T34-Q100	Single supply translating buffer	1.6 - 5.5	n.a	± 8	-40 to 125			•									
74LVC1T45-Q100	Single dual-supply voltage level translating transceiver (3-state)	1.2 - 5.5	1.2 - 5.5	± 24	-40 to 125		•						•	•			
74LVCH1T45-Q100	Single dual-supply voltage translating transceiver with bus hold (3-state)	1.2 - 5.5	1.2 - 5.5	± 24	-40 to 125		•						•	•			
74LVC2T45-Q100	Dual-bit dual-supply voltage level translating transceiver (3-state)	1.2 - 5.5	1.2 - 5.5	± 24	-40 to 125					•		•				•	
74LVCH2T45-Q100	Dual-bit dual-supply voltage level translating transceiver with bus hold (3-state)	1.2 - 5.5	1.2 - 5.5	± 24	-40 to 125					•		•				•	
LSF0101-Q100	1-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	n.a.	-40 to 125		•										
LSF0102-Q100	2-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	+64	-40 to 125					•	•						
NCA9306-Q100	2-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	n.a.	-40 to 125					•							
NXB0101-Q100	1-bit Dual supply translating transceiver; auto direction sensing (3-state)	1.2 - 3.6	1.65 - 5.5	± 0.02	-40 to 125		•									•	
NXB0102-Q100	2-bit Dual supply translating transceiver; auto direction sensing (3-state)	1.2 - 3.6	1.65 - 5.5	± 0.02	-40 to 125					•							
NXS0101-Q100	1-bit Dual supply translating transceiver; open drain; auto direction sensing	1.65 - 3.6	2.3 - 5.5	-0.02 / 1.0	-40 to 125		•										
NXS0102-Q100	2-bit Dual supply translating transceiver; open drain; auto direction sensing	1.65 - 3.6	2.3 - 5.5	-0.02 / 1.0	-40 to 125					•							

Analog Switches and Multiplexers - Analog switches

Type number	Description	Features					Package (suffix)						
		Configuration	V _{CC} (V)	R _{ON} (Ω)	R _{ON} (FLAT) (Ω)	T _{amb} (°C)	SOT353-1 (GW)	SOT753 (GV)	SOT363 (GW)	SOT457 (GV)	SOT505-2 (DP)	SOT765-1 (DC)	SOT552-1 (DP)
74AHC1G66-Q100	Single-pole, single-throw analog switch	SPST-NO	2.0 - 5.5	40	5	-40 to 125	•	•					
74AHCT1G66-Q100	Single-pole, single-throw analog switch; TTL-enabled	SPST-NO	4.5 - 5.5	40	5	-40 to 125	•	•					
74HC1G66-Q100	Single-pole, single-throw analog switch	SPST-NO	2.0 - 9.0	105	23	-40 to 125	•	•					
74HCT1G66-Q100	Single-pole, single-throw analog switch; TTL-enabled	SPST-NO	4.5 - 5.5	118	23	-40 to 125	•	•					
74HC2G66-Q100	Dual single-pole, single-throw analog switch	SPST-NO	2.0 - 9.0	105	23	-40 to 125					•	•	
74HCT2G66-Q100	Dual single-pole, single-throw analog switch; TTL-enabled	SPST-NO	4.5 - 5.5	118	23	-40 to 125					•	•	
74LVC1G53-Q100	Single-pole, double-throw analog switch	SPDT-Z	1.65 - 5.5	15	1.5	-40 to 125					•	•	
74LVC1G66-Q100	Single-pole, single-throw analog switch	SPST-NO	1.65 - 5.5	15	1.5	-40 to 125	•	•					
74LVC1G384-Q100	Single-pole, single-throw analog switch	SPST-NC	1.65 - 5.5	15	1.5	-40 to 125	•	•					
74LVC1G3157-Q100	Single-pole, double-throw analog switch	SPDT	1.65 - 5.5	15	1.5	-40 to 125			•	•			
74LVC2G3157-Q100	Dual 10 Ω single-pole double-throw analog switch	SPDT	1.65 - 5.5	15	1.5	-40 to 125							•
74LVC2G66-Q100	Dual single-pole, single-throw analog switch	SPST-NO	1.65 - 5.5	15	1.5	-40 to 125					•	•	
X55A1T4157-Q100	Low-ohmic single-pole double-throw analog switch	SPDT-Z	4.5 - 5.5	4	0.9	-40 to 125			•				

Buffers / Inverters

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	Output Load CL (pF)	t _{pd} (ns)	f _{max} (MHz)	T _{amb} (°C)
74ABT04	Hex inverter	4.5 - 5.5	TTL	-15 / 20	50	2.2	100	-40 to 85
74ABT125	Quad buffer/line driver (3-state)	4.5 - 5.5	TTL	-32 / 64	50	3.1	100	-40 to 85
74ABT126	Quad buffer/line driver (3-state)	4.5 - 5.5	TTL	-32 / 64	50	3.0	100	-40 to 85
74ABT162244	16-bit buffer/line driver with 30 Ohm termination resistors (3-state)	4.5 - 5.5	TTL	-32 / 12	50	3.2	100	-40 to 85
74ABT16240A	16-bit inverter/line driver (3-state)	4.5 - 5.5	TTL	-32 / 64	50	2.0	150	-40 to 85
74ABT16244A	16-bit buffer/line driver (3-state)	4.5 - 5.5	TTL	-32 / 64	50	2.1	150	-40 to 85
74ABT244	Octal buffer/line driver (3-state)	4.5 - 5.5	TTL	-32 / 64	50	2.9	100	-40 to 85
74AHC04	Hex inverter	2.0 - 5.5	CMOS	±8	50	3.0	60	-40 to 125
74AHC125	Quad buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.0	60	-40 to 125
74AHC126	Quad buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.3	60	-40 to 125
74AHC14	Hex inverter; Schmitt-trigger	2.0 - 5.5	CMOS	±8	50	3.2	60	-40 to 125
74AHC1G04	Single inverter	2.0 - 5.5	CMOS	±8	50	3.1	60	-40 to 125
74AHC1G07	Single buffer; open-drain	2.0 - 5.5	CMOS	±8	50	2.5	60	-40 to 125
74AHC1G125	Single buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.4	60	-40 to 125
74AHC1G126	Single buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.4	60	-40 to 125
74AHC1G14	Single inverter; Schmitt-trigger	2.0 - 5.5	CMOS	±8	50	3.2	60	-40 to 125
74AHC1G17	Single buffer with Schmitt-trigger inputs	2.0 - 5.5	CMOS	±8	50	3.2	60	-40 to 125
74AHC1GU04	Single inverter; unbuffered	2.0 - 5.5	CMOS	±8	50	2.6	60	-40 to 125
74AHC244	Octal buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.5	60	-40 to 125
74AHC2G125	Dual buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.4	60	-40 to 125
74AHC2G126	Dual buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.4	60	-40 to 125
74AHC2G241	Dual buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.4	60	-40 to 125
74AHC3G04	Triple inverter	2.0 - 5.5	CMOS	±8	50	3.1	60	-40 to 125
74AHC3G14	Triple inverter; Schmitt-trigger	2.0 - 5.5	CMOS	±8	50	3.2	60	-40 to 125
74AHC3GU04	Triple inverter; unbuffered	2.0 - 5.5	CMOS	±8	50	2.5	60	-40 to 125
74AHC541	Octal buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.5	60	-40 to 125
74AHC9541A	Octal buffer/line driver; Schmitt-trigger (3-state)	1.8 - 5.5	CMOS	±8	15	3.4	60	-40 to 125
74AHCT04	Hex inverter; TTL-enabled	4.5 - 5.5	TTL	±8	50	3.0	60	-40 to 125
74AHCT04A	Hex inverter; TTL-enabled	4.5 - 5.5	TTL	±8	15	3.1	60	-40 to 125
74AHCT07A	Hex buffer; open-drain; TTL-enabled	4.5 - 5.5	TTL	±8	15	4.0	60	-40 to 125
74AHCT125	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.0	60	-40 to 125
74AHCT126	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.0	60	-40 to 125
74AHCT14	Hex inverting; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	50	3.4	60	-40 to 125
74AHCT14A	Hex inverter; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	15	3.7	60	-40 to 125
74AHCT17A	Hex buffer; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	15	3.2	60	-40 to 125
74AHCT1G04	Single inverter; TTL-enabled	4.5 - 5.5	TTL	±8	50	3.4	60	-40 to 125
74AHCT1G125	Single buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.4	60	-40 to 125
74AHCT1G126	Single buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.4	60	-40 to 125
74AHCT1G14	Single inverter; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	50	4.1	60	-40 to 125
74AHCT1G17	Single buffer with Schmitt-trigger inputs; TTL-enabled	4.5 - 5.5	TTL	±8	50	4.1	60	-40 to 125
74AHCT240	Octal inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.0	60	-40 to 125

Buffers / Inverters

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	Output Load CL (pF)	t _{pd} (ns)	f _{max} (MHz)	T _{amb} (°C)
74AHCT244	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.5	60	-40 to 125
74AHCT244A	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	15	3.5	60	-40 to 125
74AHCT2G125	Dual buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.4	60	-40 to 125
74AHCT2G126	Dual buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.4	60	-40 to 125
74AHCT2G241	Dual buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.4	60	-40 to 125
74AHCT3G04	Triple inverter; TTL-enabled	4.5 - 5.5	TTL	±8	50	3.0	60	-40 to 125
74AHCT3G14	Triple inverter; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	50	4.1	60	-40 to 125
74AHCT541	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.5	60	-40 to 125
74AHCT541A	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	15	3.5	60	-40 to 125
74AHCU04	Hex inverter; unbuffered	2.0 - 5.5	CMOS	±8	50	2.4	60	-40 to 125
74AHCV05A	Hex inverter; Schmitt trigger; open-drain	2.0 - 5.5	CMOS	±16	15	8.5	10	-40 to 125
74AHCV07A	Hex buffer; Schmitt-trigger; open-drain	1.8 - 5.5	CMOS	16	15	3.8	60	-40 to 125
74AHCV14A	Hex inverter; Schmitt-trigger	1.8 - 5.5	CMOS	±16	15	3.2	60	-40 to 125
74AHCV17A	Hex buffer; Schmitt-trigger	1.8 - 5.5	CMOS	±16	15	3.2	60	-40 to 125
74AHCV244A	Octal buffer/line driver; Schmitt-trigger (3-state)	1.8 - 5.5	CMOS	±16	15	3.0	60	-40 to 125
74AHCV541A	Octal buffer/line driver; Schmitt-trigger (3-state)	1.8 - 5.5	CMOS	±16	15	3.0	60	-40 to 125
74ALVC04	Hex inverter	1.65 - 3.6	TTL	±24	30	2.0	150	-40 to 85
74ALVC125	Quad buffer/line driver (3-state)	1.65 - 3.6	TTL	±24	30	1.8	145	-40 to 85
74ALVC14	Hex inverter; Schmitt-trigger	1.65 - 3.6	TTL	±24	30	2.4	150	-40 to 85
74ALVC16244	16-bit buffer/line driver (3-state)	1.2 - 3.6	TTL	±24	50	1.9	150	-40 to 85
74ALVC244	Octal buffer/line driver (3-state)	1.65 - 3.6	TTL	±24	30	2.9	130	-40 to 85
74ALVC541	Octal buffer/line driver (3-state)	1.65 - 3.6	TTL	±24	30	2.3	130	-40 to 85
74ALVCH162244	16-bit buffer/line driver with bus hold and 30 Ω termination resistors (3-state)	2.3 - 3.6	TTL	±12	30	2.7	150	-40 to 85
74ALVCH16244	16-bit buffer/line driver with bus hold (3-state)	1.2 - 3.6	TTL	±24	30	1.9	150	-40 to 85
74ALVCH162827	20-bit buffer/line driver with bus hold and 30 Ω termination resistors (3-state)	2.3 - 3.6	TTL	±12	30	2.9	150	-40 to 85
74ALVCH16825	18-bit buffer/line driver with bus hold (3-state)	2.3 - 3.6	TTL	±24	30	2.0	150	-40 to 85
74ALVCH16827	20-bit buffer/line driver with bus hold (3-state)	2.3 - 3.6	TTL	±24	30	2.0	150	-40 to 85
74ALVT16244	16-bit buffer/line driver with bus hold (3-state)	2.3 - 3.6	LVTTTL	-32 / 64	50	1.5	200	-40 to 85
74ALVT162827	20-bit buffer/line driver with bus hold and 30 Ω termination resistors (3-state)	2.3 - 3.6	LVTTTL	±12	50	2.2	75	-40 to 85
74ALVT16827	20-bit buffer/line driver with bus hold (3-state)	2.3 - 3.6	LVTTTL	-32 / 64	50	1.3	200	-40 to 85
74AUP1G04	Single inverter	1.1 - 3.6	CMOS	±1.9	30	4.0	70	-40 to 125
74AUP1G06	Single inverter; open drain	1.1 - 3.6	CMOS	1.9	30	4.5	70	-40 to 125
74AUP1G07	Single buffer; open drain	1.1 - 3.6	CMOS	1.9	30	4.4	70	-40 to 125
74AUP1G125	Single buffer/line driver (3-state)	1.1 - 3.6	CMOS	±1.9	30	4.3	70	-40 to 125
74AUP1G126	Single buffer/line driver (3-state)	1.1 - 3.6	CMOS	±1.9	30	4.3	70	-40 to 125
74AUP1G14	Single inverter; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	30	4.7	70	-40 to 125
74AUP1G16	Single buffer	1.1 - 3.6	CMOS	±1.9	30	4.7	70	-40 to 125
74AUP1G240	Single inverter/line driver (3-state)	1.1 - 3.6	CMOS	±1.9	30	4.2	70	-40 to 125
74AUP1G34	Single buffer	1.1 - 3.6	CMOS	±1.9	30	3.9	70	-40 to 125
74AUP1GU04	Single inverter; unbuffered	1.1 - 3.6	CMOS	±1.9	30	2.3	70	-40 to 125
74AUP1T04	Single supply voltage-translating inverter	2.3 - 3.6	CMOS	±4	15	3.9	70	-40 to 125

Buffers / Inverters

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	Output Load CL (pF)	t _{pd} (ns)	f _{max} (MHz)	T _{amb} (°C)
74AUP1T14	Single supply voltage-translating inverter	2.3 - 3.6	CMOS	±4	15	3.6	70	-40 to 125
74AUP1T17	Single supply voltage-translating buffer	2.3 - 3.6	CMOS	±4	15	3.6	70	-40 to 125
74AUP1T50	Single supply voltage-translating buffer	2.3 - 3.6	CMOS	±4	15	3.6	70	-40 to 125
74AUP2G04	Dual inverter	1.1 - 3.6	CMOS	±1.9	30	4.0	70	-40 to 125
74AUP2G06	Dual inverter; open drain	1.1 - 3.6	CMOS	1.9	30	4.5	70	-40 to 125
74AUP2G07	Dual buffer; open drain	1.1 - 3.6	CMOS	1.9	30	4.4	70	-40 to 125
74AUP2G125	Dual buffer/line driver (3-state)	1.1 - 3.6	CMOS	+1.9	30	4.3	70	-40 to 125
74AUP2G126	Dual buffer/line driver (3-state)	1.1 - 3.6	CMOS	+1.9	30	4.3	70	-40 to 125
74AUP2G14	Dual inverter; Schmitt-trigger	1.1 - 3.6	CMOS	+1.9	30	4.7	70	-40 to 125
74AUP2G16	Dual buffer	1.1 - 3.6	CMOS	+1.9	30	4.7	70	-40 to 125
74AUP2G17	Dual buffer; Schmitt-trigger	1.1 - 3.6	CMOS	+1.9	30	7.8	70	-40 to 125
74AUP2G240	Dual inverter/line driver (3-state)	1.1 - 3.6	CMOS	+1.9	30	4.2	70	-40 to 125
74AUP2G241	Dual buffer/line driver (3-state)	1.1 - 3.6	CMOS	+ 1.9	30	4.3	70	-40 to 125
74AUP2G34	Dual buffer	1.1 - 3.6	CMOS	+1.9	30	3.9	70	-40 to 125
74AUP2GU04	Dual inverter; unbuffered	1.1 - 3.6	CMOS	+1.9	30	2.3	70	-40 to 125
74AUP3G04	Triple inverter	1.1 - 3.6	CMOS	+1.9	30	4.0	70	-40 to 125
74AUP3G07	Triple buffer; open-drain	1.1 - 3.6	CMOS	1.9	30	4.4	70	-40 to 125
74AUP3G14	Triple inverter; Schmitt-trigger	1.1 - 3.6	CMOS	+1.9	30	4.7	70	-40 to 125
74AUP3G16	Triple buffer	1.1 - 3.6	CMOS	+1.9	30	4.0	70	-40 to 125
74AUP3G17	Triple buffer; Schmitt-trigger	1.1 - 3.6	CMOS	+1.9	30	4.7	70	-40 to 125
74AUP3G34	Triple buffer	1.1 - 3.6	CMOS	+1.9	30	4.0	70	-40 to 125
74AVC1T1004	1-to-4 translating fan-out buffer	0.8 - 3.6	CMOS/LVTTL	±12	15	4.9	200	-40 to 125
74AVC4T3144	4-bit dual-supply buffer/level-translator (3-state)	0.8 - 3.6	CMOS/ LVTTTL	±12	15	3.5	200	-40 to 125
74AVC9112	1-to-4 fan-out buffer	0.8 - 3.6	CMOS/LVTTL	±12	15	4.0	200	-40 to 125
74HC04	Hex inverter	2.0 - 6.0	CMOS	+5.2	50	7.0	36	-40 to 125
74HC05	Hex inverter; open drain	2.0 - 6.0	CMOS	5.2	50	11	36	-40 to 125
74HC125	Quad buffer/line driver (3-state)	2.0 - 6.0	CMOS	+7.8	50	9.0	36	-40 to 125
74HC126	Quad buffer/line driver (3-state)	2.0 - 6.0	CMOS	+7.8	50	9.0	36	-40 to 125
74HC14	Hex inverter; Schmitt-trigger	2.0 - 6.0	CMOS	+5.2	50	12	36	-40 to 125
74HC1G04	Single inverter	2.0 - 6.0	CMOS	+2.6	50	7.0	36	-40 to 125
74HC1G125	Single buffer/line driver (3-state)	2.0 - 6.0	CMOS	+2.6	50	9.0	36	-40 to 125
74HC1G126	Single buffer/line driver (3-state)	2.0 - 6.0	CMOS	+2.6	50	9.0	36	-40 to 125
74HC1G14	Single inverter; Schmitt-trigger	2.0 - 6.0	CMOS	+2.6	50	10	36	-40 to 125
74HC1GU04	Single inverter; unbuffered	2.0 - 6.0	CMOS	+ 2.6	50	5.0	36	-40 to 125
74HC240	Octal inverter/line driver (3-state)	2.0 - 6.0	CMOS	+7.8	50	9.0	36	-40 to 125
74HC241	Octal buffer/line driver (3-state)	2.0 - 6.0	CMOS	+7.8	50	7.0	36	-40 to 125
74HC244	Octal buffer/line driver (3-state)	2.0 - 6.0	CMOS	+7.8	50	9.0	36	-40 to 125
74HC2G04	Dual inverter	2.0 - 6.0	CMOS	±5.2	50	8.0	36	-40 to 125
74HC2G125	Dual buffer/line driver (3-state)	2.0 - 6.0	CMOS	±5.2	50	10	36	-40 to 125
74HC2G14	Dual inverter; Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	50	16	36	-40 to 125
74HC2G16	Dual buffer	2.0 - 6.0	CMOS	±5.2	50	9.0	36	-40 to 125

Buffers / Inverters

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	Output Load CL (pF)	t _{pd} (ns)	f _{max} (MHz)	T _{amb} (°C)
74HC2G17	Dual buffer; Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	50	12	36	-40 to 125
74HC2G34	Dual buffer	2.0 - 6.0	CMOS	±5.2	50	9.0	36	-40 to 125
74HC2GU04	Single inverter; unbuffered	2.0 - 6.0	CMOS	±2.6	50	5.0	36	-40 to 125
74HC365	Hex buffer/line driver (3-state)	2.0 - 6.0	CMOS	±7.8	50	9.0	36	-40 to 125
74HC366	Hex inverter/line driver (3-state)	2.0 - 6.0	CMOS	±7.8	50	10	36	-40 to 125
74HC367	Hex buffer/line driver (3-state)	2.0 - 6.0	CMOS	±7.8	50	8.0	36	-40 to 125
74HC368	Hex inverter/line driver (3-state)	2.0 - 6.0	CMOS	±7.8	50	9.0	36	-40 to 125
74HC3G04	Triple inverter	2.0 - 6.0	CMOS	±5.2	50	8.0	36	-40 to 125
74HC3G06	Triple inverter; open drain	2.0 - 6.0	CMOS	5.2	50	9.0	36	-40 to 125
74HC3G07	Triple buffer; open drain	2.0 - 6.0	CMOS	5.2	50	9.0	36	-40 to 125
74HC3G14	Triple inverter; Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	50	16	36	-40 to 125
74HC3G16	Triple buffer	2.0 - 6.0	CMOS	±5.2	50	9.0	36	-40 to 125
74HC3G34	Triple buffer	2.0 - 6.0	CMOS	±5.2	50	9.0	36	-40 to 125
74HC3GU04	Triple inverter; unbuffered	2.0 - 6.0	CMOS	±5.2	50	6.0	36	-40 to 125
74HC540	Octal inverter/line driver (3-state)	2.0 - 6.0	CMOS	±7.8	50	9.0	36	-40 to 125
74HC541	Octal buffer/line driver (3-state)	2.0 - 6.0	CMOS	±7.8	50	10	36	-40 to 125
74HC7014	Hex buffer; precision Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	50	27	36	-40 to 125
74HC7540	Octal inverter/line driver; Schmitt-trigger (3-State)	2.0 - 6.0	CMOS	±7.8	15	11	36	-40 to 125
74HC7541	Octal buffer/line driver; Schmitt-trigger (3-State)	2.0 - 6.0	CMOS	±7.8	15	10	36	-40 to 125
74HC9114	9-bit inverter; Schmitt-trigger; open-drain (3-state)	2.0 - 6.0	CMOS	5.2	15	12	36	-40 to 125
74HC9115	9-bit buffer; Schmitt-trigger; open-drain (3-state)	2.0 - 6.0	CMOS	5.2	15	12	36	-40 to 125
74HCT04	Hex inverter; TTL-enabled	4.5 - 5.5	TTL	±4	50	8.0	36	-40 to 125
74HCT125	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	12	36	-40 to 125
74HCT126	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	11	36	-40 to 125
74HCT14	Hex inverter; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±4	50	17	36	-40 to 125
74HCT1G04	Single inverter; TTL-enabled	4.5 - 5.5	TTL	±2	50	8.0	36	-40 to 125
74HCT1G125	Single buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±2	50	10	36	-40 to 125
74HCT1G126	Single buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±2	50	10	36	-40 to 125
74HCT1G14	Single inverter; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±2	50	15	36	-40 to 125
74HCT240	Octal inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	9.0	36	-40 to 125
74HCT241	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	11	36	-40 to 125
74HCT244	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	11	36	-40 to 125
74HCT2G04	Dual inverter; TTL-enabled	4.5 - 5.5	TTL	±4	50	10	36	-40 to 125
74HCT2G125	Dual buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±4	50	12	36	-40 to 125
74HCT2G14	Dual inverter; Schmitt-trigger; TTL-enabled	4.5 to 5.5	TTL	±4	50	21	36	-40 to 125
74HCT2G16	Dual buffer; TTL-enabled	4.5 - 5.5	TTL	±4	50	10	32	-40 to 125
74HCT2G17	Dual buffer; Schmitt-trigger; TTL-enabled	4.5 to 5.5	TTL	±4	50	21	36	-40 to 125
74HCT2G34	Dual buffer; TTL-enabled	4.5 - 5.5	TTL	±4	50	10	32	-40 to 125
74HCT365	Hex buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	11	36	-40 to 125
74HCT366	Hex inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	11	36	-40 to 125
74HCT367	Hex buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	11	36	-40 to 125

Buffers / Inverters

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	Output Load CL (pF)	t _{pd} (ns)	f _{max} (MHz)	T _{amb} (°C)
74HCT368	Hex inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	11	36	-40 to 125
74HCT3G04	Triple inverter; TTL-enabled	4.5 - 5.5	TTL	±4	50	10	36	-40 to 125
74HCT3G06	Triple inverter; open drain; TTL-enabled	4.5 - 5.5	TTL	4	50	9.0	36	-40 to 125
74HCT3G07	Triple buffer; open drain; TTL-enabled	4.5 - 5.5	TTL	4	50	9.0	36	-40 to 125
74HCT3G14	Triple inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±4	50	21	36	-40 to 125
74HCT3G34	Triple buffer; TTL-enabled	4.5 - 5.5	TTL	±4	50	10	36	-40 to 125
74HCT540	Octal inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	11	36	-40 to 125
74HCT541	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	12	36	-40 to 125
74HCT7540	Octal inverter/line driver Schmitt-trigger; TTL-enabled (3-State)	4.5 - 5.5	TTL	±6	15	16	36	-40 to 125
74HCT7541	Octal buffer/line driver Schmitt-trigger; TTL-enabled (3-State)	4.5 - 5.5	TTL	±6	15	16	36	-40 to 125
74HCT9114	9-bit inverter Schmitt-trigger; open-drain; TTL-enabled (3-state)	4.5 - 5.5	TTL	4	15	13	36	-40 to 125
74HCU04	Hex inverter; unbuffered	2.0 - 6.0	CMOS	±5.2	50	5.0	36	-40 to 125
74LV04	Hex inverter	1.0 - 5.5	CMOS	±12	50	6.0	30	-40 to 125
74LV04AT	Hex buffer	4.5 - 5.5	TTL	±12	15	3.3	60	-40 to 125
74LV05A	Hex inverter; open-drain	2.0 - 5.5	CMOS	12	15	2.9	60	-40 to 125
74LV07A	Hex buffer; open-drain	2.0 - 5.5	CMOS	16	15	3.6	60	-40 to 125
74LV07AT	Hex buffer; open-drain; TTL-enabled	4.5 - 5.5	TTL	16	15	3.5	60	-40 to 125
74LV14	Hex inverter; Schmitt-trigger	1.0 - 5.5	TTL	±12	50	13	30	-40 to 125
74LV14A	Hex inverter; Schmitt-trigger	2.0 - 5.5	CMOS	±12	15	3.4	60	-40 to 125
74LV17A	Hex buffer; Schmitt-trigger	2.0 - 5.5	CMOS	±12	15	3.4	60	-40 to 125
74LV1T04	Single supply translating inverter	1.6 - 5.5	CMOS	±8	15	3.1	60	-40 to 125
74LV1T34	Single supply translating buffer	1.6 - 5.5	CMOS	±8	15	3.1	60	-40 to 125
74LV1T125	Single supply translating buffer / line driver (3-state)	1.6 - 5.5	CMOS	±8	15	3.2	60	-40 to 125
74LV1T126	Single supply translating buffer / line driver (3-state)	1.6 - 5.5	CMOS	±8	15	3.2	60	-40 to 125
74LV244	Octal buffer/line driver (3-state)	1.0 - 5.5	CMOS	±16	50	8.0	30	-40 to 125
74LV244A	Octal buffer/line driver (3-state)	2.0 - 5.5	CMOS	±16	15	2.9	60	-40 to 125
74LV244AT	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±16	15	2.8	60	-40 to 125
74LV540A	Octal buffer/line driver (3-state); inverting	1.65 - 5.5	CMOS/LVTTL	±16	15	3.1	60	-40 to 125
74LV541A	Octal buffer/line driver (3-state)	2.0 - 5.5	CMOS	±16	15	2.9	60	-40 to 125
74LV541AT	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±16	15	2.8	60	-40 to 125
74LVC04A	Hex inverter	1.65 - 5.5	CMOS/LVTTL	±24	50	2.0	175	-40 to 125
74LVC06A	Hex inverter; open drain	1.65 - 5.5	CMOS/LVTTL	32	50	2.2	175	-40 to 125
74LVC07A	Hex buffer; open drain	1.65 - 5.5	CMOS/LVTTL	32	50	2.2	175	-40 to 125
74LVC125A	Quad buffer/line driver (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	2.4	175	-40 to 125
74LVC126A	Quad buffer/line driver (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	2.4	175	-40 to 125
74LVC14A	Hex inverter; Schmitt-trigger	1.2 - 3.6	CMOS/LVTTL	±24	50	3.2	175	-40 to 125
74LVC162244A	16-bit buffer/line driver with 30 Ω termination resistors (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	2.9	175	-40 to 125
74LVC16240A	16-bit inverter/line driver (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	2.7	175	-40 to 125
74LVC16241A	16-bit buffer/line driver (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	2.9	175	-40 to 125
74LVC16244A	16-bit buffer/line driver (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	3.0	175	-40 to 125
74LVC1G04	Single inverter	1.65 - 5.5	CMOS/LVTTL	±32	50	2.0	175	-40 to 125

Buffers / Inverters

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	Output Load CL (pF)	t _{pd} (ns)	f _{max} (MHz)	T _{amb} (°C)
74LVC1G06	Single inverter; open drain	1.65 - 5.5	CMOS/LVTTL	32	50	2.3	175	-40 to 125
74LVC1G07	Single buffer; open drain	1.65 - 5.5	CMOS/LVTTL	32	50	2.2	175	-40 to 125
74LVC1G125	Single buffer/line driver; TTL-enabled (3-state)	1.65 - 5.5	CMOS/LVTTL	±32	50	2.1	175	-40 to 125
74LVC1G126	Single buffer/line driver; TTL-enabled (3-state)	1.65 - 5.5	CMOS/LVTTL	±32	50	2.0	175	-40 to 125
74LVC1G14	Single inverter; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	50	3.0	175	-40 to 125
74LVC1G16	Single buffer	1.65 - 5.5	CMOS/LVTTL	±24	50	2.0	175	-40 to 125
74LVC1G17	Single buffer; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	50	3.0	175	-40 to 125
74LVC1G240	Single inverter/line driver (3-state)	1.65 - 5.5	CMOS/LVTTL	±32	50	2.1	175	-40 to 125
74LVC1G34	Single buffer	1.65 - 5.5	CMOS/LVTTL	±24	50	2.0	175	-40 to 125
74LVC1GU04	Single inverter; unbuffered	1.65 - 5.5	CMOS/LVTTL	±32	50	1.6	175	-40 to 125
74LVC2244A	Octal buffer/line driver with 30 Ω termination resistors (3-state)	1.2 - 3.6	CMOS/LVTTL	±12	50	3.1	175	-40 to 125
74LVC240A	Octal inverter/line driver (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	3.5	175	-40 to 125
74LVC244A	Octal buffer/line driver (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	2.8	175	-40 to 125
74LVC2G04	Dual inverter	1.65 - 5.5	CMOS/LVTTL	±24	50	2.7	175	-40 to 125
74LVC2G06	Dual inverter; open drain	1.65 - 5.5	CMOS/LVTTL	32	50	2.3	175	-40 to 125
74LVC2G07	Dual buffer; open drain	1.65 - 5.5	CMOS/LVTTL	32	50	2.6	175	-40 to 125
74LVC2G125	Dual buffer/line driver; TTL-enabled (3-state)	1.65 - 5.5	CMOS/LVTTL	±32	50	2.3	175	-40 to 125
74LVC2G126	Dual buffer/line driver; TTL-enabled (3-state)	1.65 - 5.5	CMOS/LVTTL	±32	50	2.4	175	-40 to 125
74LVC2G14	Dual inverter; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	50	3.9	175	-40 to 125
74LVC2G16	Dual buffer	1.65 - 5.5	CMOS/LVTTL	±24	50	2.0	175	-40 to 125
74LVC2G17	Dual buffer; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	50	3.6	175	-40 to 125
74LVC2G240	Dual inverter/line driver (3-state)	1.65 - 5.5	CMOS/LVTTL	±32	50	2.5	175	-40 to 125
74LVC2G241	Dual buffer/line driver (3-state)	1.65 - 5.5	CMOS/LVTTL	±32	50	2.6	175	-40 to 125
74LVC2G34	Dual buffer	1.65 - 5.5	CMOS/LVTTL	±32	50	2.2	175	-40 to 125
74LVC2GU04	Dual inverter; unbuffered	1.65 - 5.5	CMOS/LVTTL	±32	50	2.3	175	-40 to 125
74LVC3G04	Triple inverter	1.65 - 5.5	CMOS/LVTTL	±32	50	2.7	175	-40 to 125
74LVC3G06	Triple inverter; open drain	1.65 - 5.5	CMOS/LVTTL	32	50	2.0	175	-40 to 125
74LVC3G07	Triple buffer; open drain	1.65 - 5.5	CMOS/LVTTL	32	50	2.1	175	-40 to 125
74LVC3G14	Triple inverter; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	50	3.2	175	-40 to 125
74LVC3G16	Triple buffer	1.65 - 5.5	CMOS/LVTTL	±24	50	2.0	175	-40 to 125
74LVC3G17	Triple buffer; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	50	3.6	175	-40 to 125
74LVC3G34	Triple buffer	1.65 - 5.5	CMOS/LVTTL	±32	50	2.2	175	-40 to 125
74LVC3GU04	Triple inverter; unbuffered	1.65 - 5.5	CMOS/LVTTL	±32	50	2.3	175	-40 to 125
74LVC541A	Octal buffer/line driver (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	3.3	175	-40 to 125
74LVCH162244A	16-bit buffer/line driver with bus hold and 30 Ω termination resistors (3-state)	1.2 - 3.6	CMOS/LVTTL	±12	50	2.9	175	-40 to 125
74LVCH16244A	16-bit buffer/line driver with bus hold (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	3.0	175	-40 to 125
74LVCH16541A	16-bit buffer/line driver with bus hold (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	2.7	175	-40 to 125
74LVCH244A	Octal buffer/line driver with bus hold (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	2.8	175	-40 to 125
74LVCU04A	Hex inverter; unbuffered	1.2 - 3.6	CMOS/LVTTL	±24	50	2.0	175	-40 to 125
74LVT04	Hex inverter	2.7 - 3.6	TTL	-20 / 32	50	2.6	150	-40 to 85
74LVT125	Quad buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.9	150	-40 to 85

Buffers / Inverters

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	Output Load CL (pF)	t _{pd} (ns)	f _{max} (MHz)	T _{amb} (°C)
74LVT126	Quad buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.4	150	-40 to 85
74LVT14	Hex inverter; Schmitt-trigger	2.7 - 3.6	TTL	-32 / 64	50	3.8	150	-40 to 85
74LVT162240A	16-bit inverter/line driver with bus hold and 30 Ω termination (3-state)	2.7 - 3.6	TTL	±12	50	2.6	150	-40 to 85
74LVT162244B	16-bit buffer/line driver with bus hold and 30 Ω termination resistors (3-state)	2.7 - 3.6	TTL	±12	50	2.8	150	-40 to 85
74LVT16240A	16-bit inverter/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.0	150	-40 to 85
74LVT16244B	16-bit buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	1.8	150	-40 to 85
74LVT2241	Octal buffer/line driver with bus hold and 30 Ω termination resistors (3-state)	2.7 - 3.6	TTL	±12	50	3.3	150	-40 to 85
74LVT2244	Octal buffer/line driver with bus hold and 30 Ω termination resistors (3-state)	2.7 - 3.6	TTL	±12	50	2.9	150	-40 to 85
74LVT240	Octal inverter/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.5	150	-40 to 85
74LVT241	Octal buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.8	150	-40 to 85
74LVT244A	Octal buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.6	150	-40 to 85
74LVT244B	Octal buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.0	150	-40 to 85
74LVTH125	Quad buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.9	150	-40 to 85
74LVTH16244B	16-bit buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	1.8	150	-40 to 85
74LVTH244A	Octal buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.6	150	-40 to 85
74LVTH244B	Octal buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.0	150	-40 to 85
74LVTN16244B	16-bit buffer/line driver (3-state)	2.7 - 3.6	TTL	-32 / 64	50	1.8	150	-40 to 85
74VHC125	Quad buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.0	60	-40 to 125
74VHC126	Quad buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.3	60	-40 to 125
74VHC14	Hex inverter; Schmitt-trigger	2.0 - 5.5	CMOS	±8	50	3.2	60	-40 to 125
74VHC244	Octal inverter/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.5	60	-40 to 125
74VHC541	Octal buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.5	60	-40 to 125
74VHCT125	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.0	60	-40 to 125
74VHCT126	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.0	60	-40 to 125
74VHCT14	Hex inverter; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	50	4.1	60	-40 to 125
74VHCT244	Octal inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	5.0	60	-40 to 125
74VHCT541	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.5	60	-40 to 125
HEF40244B	Octal buffer/line driver (3-state)	3.0 - 15.0	CMOS	-62 / 45	50	30	10	-40 to 125
HEF4049B	Hex inverter/line driver	3.0 - 15.0	CMOS	-3 / 20	50	20	10	-40 to 125
HEF4050B	Hex buffer/line driver	3.0 - 15.0	CMOS	-3 / 20	50	40	10	-40 to 125
HEF4069UB	Hex inverter; unbuffered	3.0 - 15.0	CMOS	±3.4	50	15	10	-40 to 125
XC7SET04	Single inverter; TTL-enabled	4.5 - 5.5	TTL	±8	50	3.5	60	-40 to 125
XC7SET125	Single buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.4	60	-40 to 125
XC7SET14	Single inverter; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	50	4.1	60	-40 to 125
XC7SH04	Single inverter	2.0 - 5.5	CMOS	±8	50	3.5	60	-40 to 125
XC7SH125	Single buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.4	60	-40 to 125
XC7SH14	Single inverter; Schmitt-trigger	2.0 - 5.5	CMOS	±8	50	3.2	60	-40 to 125
XC7SHU04	Single inverter; unbuffered	2.0 - 5.5	CMOS	±8	50	3.5	60	-40 to 125
XC7WH126	Dual buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.4	60	-40 to 125
XC7WH14	Triple inverter; Schmitt-trigger	2.0 - 5.5	CMOS	±8	50	3.2	60	-40 to 125
XC7WT14	Triple inverter; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	50	4.1	60	-40 to 125

Transceivers

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Number of bits	f _{max} (MHz)	T _{vj} (°C)
74ABT162245A	16-bit transceiver with 30 ohm termination resistors (3-state)	4.5 - 5.5	TTL	-32 / 12	3.0	16	100	-40 to 85
74ABT16245B	16-bit transceiver (3-state)	4.5 - 5.5	TTL	-32 / 64	2.3	16	150	-40 to 85
74ABT245	Octal transceiver (3-state)	4.5 - 5.5	TTL	-32 / 64	2.9	8	100	-40 to 85
74ABTH162245A	16-bit transceiver with bus hold and 30 ohm termination resistors (3-state)	4.5 - 5.5	TTL	-32 / 12	3.0	16	80	-40 to 85
74AHC245	Octal transceiver (3-state)	2.0 - 5.5	CMOS	±8	3.5	8	60	-40 to 125
74AHC245	Octal transceiver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	5.0	8	60	-40 to 125
74AHCT245A	Octal transceiver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	3.0	8	60	-40 to 125
74AHCV245A	Octal transceiver; Schmitt-trigger (3-state)	1.8 - 5.5	CMOS	±16	3.2	8	60	-40 to 125
74ALVC16245	16-bit transceiver (3-state)	1.65 - 3.6	TTL	±24	1.9	16	150	-40 to 85
74ALVC245	Octal transceiver (3-state)	1.65 - 3.6	TTL	±24	2.3	8	130	-40 to 85
74ALVCH162245	16-bit transceiver with bus hold and 30 Ω termination resistors (3-state)	1.65 - 3.6	TTL	±12	2.4	16	150	-40 to 85
74ALVCH16245	16-bit transceiver with bus hold (3-state)	1.65 - 3.6	TTL	±24	1.9	16	150	-40 to 85
74ALVCH162601	18-bit universal bus transceiver with bus hold and 30 Ω termination resistors; positive-edge trigger (3-state)	1.65 - 3.6	TTL	±12	3.1	18	150	-40 to 85
74ALVCH16500	18-bit universal bus transceiver with bus hold; negative edge trigger (3-state)	1.65 - 3.6	TTL	±24	2.9	18	150	-40 to 85
74ALVCH16501	18-bit universal bus transceiver with bus hold; positive edge trigger (3-state)	1.65 - 3.6	TTL	±24	2.8	18	150	-40 to 85
74ALVCH16543	16-bit registered transceiver with bus hold (3-state)	1.65 - 3.6	TTL	±24	3.8	16	150	-40 to 85
74ALVCH16600	18-bit universal bus transceiver with bus hold; negative edge trigger (3-state)	1.65 - 3.6	TTL	±24	2.8	18	150	-40 to 85
74ALVCH16601	18-bit universal bus transceiver with bus hold; positive edge trigger (3-state)	1.65 - 3.6	TTL	±24	2.8	18	150	-40 to 85
74ALVCH16646	16-bit registered transceiver with bus hold (3-state)	1.65 - 3.6	TTL	±24	2.6	16	150	-40 to 85
74ALVCH16652	16-bit registered transceiver with bus hold (3-state)	1.65 - 3.6	TTL	±24	2.6	16	150	-40 to 85
74ALVCH16952	16-bit registered transceiver with bus hold (3-state)	1.65 - 3.6	TTL	±24	3.2	16	150	-40 to 85
74ALVT162245	16-bit transceiver with bus hold and 30 Ω termination resistors (3-state)	2.3 - 3.6	TTL	±12	2.3	16	75	-40 to 85
74AVC4T774	4-bit dual supply translating transceiver (3-state)	0.8 - 3.6	CMOS/ LVTTTL	±12	3.5	4	200	-40 to 125
74HC245	Octal transceiver (3-state)	2.0 - 6.0	CMOS	±7.8	7.0	8	36	-40 to 125
74HCT245	Octal transceiver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	10	8	36	-40 to 125
74LV245	Octal transceiver (3-state)	1.0 - 5.5	TTL	±16	7.0	8	30	-40 to 125
74LV245A	Octal transceiver (3-state)	2.0 - 5.5	CMOS	±16	3	8	60	-40 to 125
74LV245AT	Octal transceiver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±16	3	8	60	-40 to 125
74LVC162245A	16-bit transceiver with 30 Ω termination resistors (3-state)	1.2 - 3.6	CMOS/ LVTTTL	±12	3.3	16	175	-40 to 125
74LVC16245A	16-bit transceiver (3-state)	1.2 - 3.6	CMOS/ LVTTTL	±24	3.0	16	175	-40 to 125
74LVC2245A	Octal transceiver with 30 Ω termination resistors (3-state)	1.2 - 3.6	CMOS/ LVTTTL	±12	3.3	8	175	-40 to 125
74LVC245A	Octal transceiver (3-state)	1.2 - 3.6	CMOS/ LVTTTL	±24	2.9	8	175	-40 to 125
74LVCH162245A	16-bit transceiver with bus hold and 30 Ω termination resistors (3-state)	1.2 - 3.6	CMOS/ LVTTTL	±12	3.3	16	175	-40 to 125
74LVCH16245A	16-bit transceiver with bus hold (3-state)	1.2 - 3.6	CMOS/ LVTTTL	±24	3.0	16	175	-40 to 125
74LVCH245A	Octal transceiver with bus hold (3-state)	1.2 - 3.6	CMOS/ LVTTTL	±24	2.9	8	175	-40 to 125
74LVT162245B	16-bit transceiver with bus hold and 30 Ω termination resistors (3-state)	2.7 - 3.6	TTL	±12	2.5	16	150	-40 to 85
74LVT16245B	16-bit transceiver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	1.9	16	150	-40 to 85

Transceivers

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Number of bits	f _{max} (MHz)	T _v (°C)
74LVT16543A	16-bit registered transceiver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	2.2	16	150	-40 to 85
74LVT16543A	16-bit registered transceiver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	2	16	150	-40 to 85
74LVT2245	Octal transceiver with bus hold and 30 Ω termination resistors (3-state)	2.7 - 3.6	TTL	±12	3.2	8	150	-40 to 85
74LVT245	Octal transceiver (3-state)	2.7 - 3.6	TTL	-32 / 64	2.4	8	150	-40 to 85
74LVT245B	Octal transceiver (3-state)	2.7 - 3.6	TTL	-32 / 64	2	8	150	-40 to 85
74LVT640	Octal transceiver with bus hold; inverting (3-state)	2.7 - 3.6	TTL	-32 / 64	2.4	8	150	-40 to 85
74LVTH16245B	16-bit transceiver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	1.9	16	150	-40 to 85
74LVTH2245	Octal transceiver with bus hold and 30 Ω termination resistors (3-state)	2.7 - 3.6	TTL	±12	3.2	8	150	-40 to 85
74LVTN16245B	16-bit transceiver (3-state)	2.7 - 3.6	TTL	-32 / 64	1.9	16	150	-40 to 85
74VHC245	Octal transceiver (3-state)	2.0 - 5.5	CMOS	±8	3.5	8	60	-40 to 125
74VHCT245	Octal transceiver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	5.0	8	60	-40 to 125

AND Gates

Type number	Description	V _{cc} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (typ) (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74ABT08	Quad 2-input AND gate	4.5 - 5.5	TTL	-15 / 20	2.4	50	100	4	-40 to 85
74AHC08	Quad 2-input AND gate	2.0 - 5.5	CMOS	±8	3.5	50	60	4	-40 to 125
74AHC1G08	Single 2-input AND gate	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125
74AHC1G09	Single 2-input AND gate; open drain	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125
74AHC2G08	Dual 2-input AND gate	2.0 - 5.5	CMOS	±8	3.2	50	60	2	-40 to 125
74AHCT08	Quad 2-input AND gate; TTL-enabled	4.5 - 5.5	TTL	±8	5.0	50	60	4	-40 to 125
74AHCT1G08	Single 2-input AND gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.6	50	60	1	-40 to 125
74AHCT2G08	Dual 2-Input AND gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.6	50	60	2	-40 to 125
74ALVC08	Quad 2-input AND gate	1.65 - 3.6	CMOS/ LVTTTL	±24	2.0	50	145	4	-40 to 85
74AUP1T08	Single supply 2-input voltage-translating AND gate	2.3 - 3.6	CMOS	±4	3.6	15	70	1	-40 to 125
74AUP2G08	Dual 2-input AND gate	1.1 - 3.6	CMOS	±1.9	8.2	30	70	2	-40 to 125
74AXP1G08	Single 2-input AND gate	0.7 - 2.75	CMOS	±4.5	2.6	5	70	1	-40 to 85
74AXP1G09	Single 2-input AND gate with open-drain output	0.7 - 2.75	CMOS	±4.5	2.6	5	70	1	-40 to 85
74AXP1G11	Single 3-input AND gate	0.7 - 2.75	CMOS	±4.5	2.6	5	70	1	-40 to 85
74HC08	Quad 2-input AND gate	2.0 - 6.0	CMOS	±5.2	7.0	50	36	4	-40 to 125
74HC11	Triple 3-input AND gate	2.0 - 6.0	CMOS	±5.2	10	50	36	3	-40 to 125
74HC1G08	Single 2-input AND gate	2.0 - 6.0	CMOS	±5.2	7.0	50	36	1	-40 to 125
74HC21	Dual 4-input AND gate	2.0 - 6.0	CMOS	±5.2	10	50	36	2	-40 to 125
74HC2G08	Dual 2-input AND gate	2.0 - 6.0	CMOS	±5.2	9.0	50	36	2	-40 to 125
74HCT08	Quad 2-input AND gate; TTL-enabled	4.5 - 5.5	TTL	±4	11	50	36	4	-40 to 125
74HCT11	Triple 3-input AND gate	4.5 - 5.5	TTL	±4	11	50	36	3	-40 to 125
74HCT1G08	Single 2-input AND gate; TTL-enabled	4.5 - 5.5	TTL	±2	11	50	36	1	-40 to 125
74HCT2G08	Dual 2-Input AND gate; TTL-enabled	4.5 - 5.5	TTL	±4	14	50	36	2	-40 to 125
74LV08	Quad 2-input AND gate	1.0 - 5.5	TTL	±12	7.0	50	30	4	-40 to 125
74LV08A	Quad 2-input AND gate	2.0 - 5.5	CMOS	±12	4.3	15	45	4	-40 to 125
74LV1T08	Single supply 2-input translating AND gate	1.6 - 5.5	CMOS	±8	13.4	15	60	1	-40 to 125
74LVC08A	Quad 2-input AND gate	1.2 - 3.6	CMOS/ LVTTTL	±24	2.1	50	150	4	-40 to 125
74LVC11	Triple 3-input AND gate	1.2 - 3.6	CMOS/ LVTTTL	±24	3.7	50	150	3	-40 to 125
74LVC1G08	Single 2-input AND gate	1.65 - 5.5	CMOS/ LVTTTL	±24	2.1	50	150	1	-40 to 125
74LVC1G11	Single 3-input AND gate	1.65 - 5.5	CMOS/ LVTTTL	±24	2.6	50	150	1	-40 to 125
74LVC2G08	Dual 2-input AND gate	1.65 - 5.5	CMOS/ LVTTTL	±24	2.1	50	150	2	-40 to 125
74LVT08	Quad 2-input AND gate	2.7 - 3.6	TTL	-20 / 32	3.4	50	150	4	-40 to 85
74VHC08	Quad 2-input AND gate	2.0 - 5.5	CMOS	±8	3.5	50	60	4	-40 to 125
74VHCT08	Quad 2-input AND gate; TTL-enabled	4.5 - 5.5	TTL	±8	5.0	50	60	4	-40 to 125
HEF4073B	Triple 3-input AND gate	3.0 - 15	CMOS	±2.4	20	50	10	3	-40 to 85
HEF4081B	Quad 2-input AND gate	3.0 - 15	CMOS	±2.4	20	50	10	4	-40 to 85
HEF4082B	Dual 4-input AND gate	3.0 - 15	CMOS	±2.4	25	50	10	2	-40 to 85
XC7SET08	Single 2-input AND gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.6	50	60	1	-40 to 125
XC7SH08	Single 2-input AND gate	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125

NAND Gates

Type number	Description	V _{cc} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (typ) (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74ABT00	Quad 2-input NAND gate	4.5 - 5.5	TTL	-15 / 20	2.5	50	100	4	-40 to 85
74AHC00	Quad 2-input NAND gate	2.0 - 5.5	CMOS	±8	3.2	50	60	4	-40 to 125
74AHC132	Quad 2-input NAND gate Schmitt-trigger	2.0 - 5.5	CMOS	±8	3.3	50	60	4	-40 to 125
74AHC1G00	Single 2-input NAND gate	2.0 - 5.5	CMOS	±8	3.5	50	60	1	-40 to 125
74AHC2G00	Dual 2-input NAND gate	2.0 - 5.5	CMOS	±8	3.5	50	60	2	-40 to 125
74AHCT00	Quad 2-input NAND gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.3	50	60	4	-40 to 125
74AHCT132	Quad 2-input NAND gate Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	3.5	50	60	4	-40 to 125
74AHCT1G00	Single 2-input NAND gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.6	50	60	1	-40 to 125
74AHCT2G00	Dual 2-input NAND gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.6	50	60	2	-40 to 125
74AUP1T00	Single supply 2-input voltage-translating NAND gate	2.3 - 3.6	CMOS	±1.9	3.7	15	70	1	-40 to 125
74AUP2G132	Dual 2-input NAND gate Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	10	30	70	2	-40 to 125
74HC132	Quad 2-input NAND gate Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	11	50	36	4	-40 to 125
74HCT132	Quad 2-input NAND gate Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±4	17	50	36	4	-40 to 125
74LV00A	Quad 2-input NAND gate	2.0 - 5.5	CMOS	±12	4.3	15	45	4	-40 to 125
74LV132	Quad 2-input NAND gate Schmitt-trigger	1.0 - 5.5	TTL	±12	10	50	30	4	-40 to 125
74LVC132A	Quad 2-input NAND gate Schmitt-trigger	1.2 - 3.6	CMOS/ LVTTTL	±24	3.4	50	175	4	-40 to 125
HEF4093B	Quad 2-input NAND gate Schmitt-trigger	3.0 - 15	CMOS	±2.4	3.0	50	10	4	-40 to 85
74AHC30	8-input NAND gate	2.0 - 5.5	CMOS	±8	3.6	50	60	1	-40 to 125
74AHCT30	8-input NAND gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.3	50	60	1	-40 to 125
74ALVC00	Quad 2-input NAND gate	1.65 - 3.6	CMOS/ LVTTTL	±24	2.1	50	145	4	-40 to 85
74AUP1G00	Single 2-input NAND gate	1.1 - 3.6	CMOS	±1.9	8.3	30	70	1	-40 to 125
74AUP1G132	Single 2-input NAND gate Schmitt trigger	1.1 - 3.6	CMOS	±1.9	10	30	70	1	-40 to 125
74AUP1G38	Single 2-input NAND gate; open drain	1.1 - 3.6	CMOS	1.9	8.5	30	70	1	-40 to 125
74AUP2G00	Dual 2-input NAND gate	1.1 - 3.6	CMOS	±1.9	8.3	30	70	2	-40 to 125
74AUP2G38	Dual 2-input NAND gate; open drain	1.1 - 3.6	CMOS	1.9	8.5	30	70	2	-40 to 125
74HC00	Quad 2-input NAND gate	2.0 - 6.0	CMOS	±5.2	7.0	50	36	4	-40 to 125
74HC03	Quad 2-input NAND gate; open drain	2.0 - 6.0	CMOS	5.2	8.0	50	36	4	-40 to 125
74HC10	Triple 3-input NAND gate	2.0 - 6.0	CMOS	±5.2	9.0	50	36	3	-40 to 125
74HC1G00	Single 2-input NAND gate	2.0 - 6.0	CMOS	±2.6	7.0	50	36	1	-40 to 125
74HC20	Dual 4-input NAND gate	2.0 - 6.0	CMOS	±5.2	8.0	50	36	2	-40 to 125
74HC2G00	Dual 2-input NAND gate	2.0 - 6.0	CMOS	±5.6	9.0	50	36	2	-40 to 125
74HC30	8-input NAND gate	2.0 - 6.0	CMOS	±5.2	12	50	36	1	-40 to 125
74HCT00	Quad 2-input NAND gate; TTL-enabled	4.5 - 5.5	TTL	±4	10	50	36	4	-40 to 125
74HCT03	Quad 2-input NAND gate; TTL-enabled; open drain	4.5 - 5.5	TTL	±4	10	50	36	4	-40 to 125
74HCT10	Triple 3-input NAND gate; TTL-enabled	4.5 - 5.5	TTL	±4	11	50	36	3	-40 to 125
74HCT1G00	Single 2-input NAND gate; TTL-enabled	4.5 - 5.5	TTL	±2	10	50	36	1	-40 to 125
74HCT2G00	Dual 2-input NAND gate; TTL-enabled	4.5 - 5.5	TTL	±4	12	50	36	2	-40 to 125
74HCT30	8-input NAND gate; TTL-enabled	4.5 - 5.5	TTL	±4	12	50	36	1	-40 to 125
74LV00	Quad 2-input NAND gate	1.0 - 5.5	TTL	±12	7	50	30	4	-40 to 125
74LV03	Quad 2-input NAND gate; TTL-enabled; open drain	1.0 - 5.5	TTL	±12	8.0	50	30	4	-40 to 125
74LV1T00	Single supply 2-input translating NAND gate	1.6 - 5.5	CMOS	±8	3.1	15	60	1	-40 to 125
74LVC00A	Quad 2-input NAND gate	1.2 - 3.6	CMOS/ LVTTTL	±24	2.1	50	150	4	-40 to 125
74LVC10A	Triple 3-input NAND gate	1.2 - 3.6	CMOS/ LVTTTL	±24	3.9	50	150	3	-40 to 125

NAND Gates

Type number	Description	V _{cc} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (typ) (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74LVC1G00	Single 2-input NAND gate	1.65 - 5.5	CMOS/LVTTL	±32	2.2	50	175	1	-40 to 125
74LVC1G10	Single 3-input NAND gate	1.65 - 5.5	CMOS/LVTTL	±32	2.6	50	175	1	-40 to 125
74LVC1G38	Single 2-input NAND gate; open drain	1.65 - 5.5	CMOS/LVTTL	32	2.3	50	175	1	-40 to 125
74LVC2G00	Dual 2-input NAND gate	1.65 - 5.5	CMOS/LVTTL	±32	2.2	50	175	2	-40 to 125
74LVC2G38	Dual 2-input NAND gate; open drain	1.65 - 5.5	CMOS/LVTTL	32	2.1	50	175	2	-40 to 125
HEF4011B	Quad 2-input NAND gate	3.0 - 15	CMOS	±2.4	20	50	10	4	-40 to 85

OR Gates

Type number	Description	V _{cc} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (typ) (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74ABT32	Quad 2-input OR gate	4.5 - 5.5	TTL	-15 / 20	2.3	50	100	4	-40 to 85
74AHC1G32	Single 2-input OR gate	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125
74AHT1G32	Single 2-input OR gate	4.5 - 5.5	TTL	±8	3.3	50	60	1	-40 to 125
74AHC2G32	Dual 2-input OR gate	2.0 - 5.5	CMOS	±8	3.2	50	60	2	-40 to 125
74AHT2G32	Dual 2-input OR gate	4.5 - 5.5	TTL	±8	3.3	50	60	2	-40 to 125
74AHC32	Quad 2-input OR gate	2.0 - 5.5	CMOS	±8	3.5	50	60	4	-40 to 125
74AHT32	Quad 2-input OR gate; TTL-enabled	4.5 - 5.5	TTL	±8	5.0	50	60	4	-40 to 125
74ALVC32	Quad 2-input OR gate	1.65 - 3.6	CMOS/LVTTL	±24	2.0	50	150	4	-40 to 125
74AUP1G32	Single 2-input OR gate	1.1 - 3.6	CMOS	±1.9	7.9	30	70	1	-40 to 125
74AUP1G332	Single 3-input OR gate	1.1 - 3.6	CMOS	±1.9	6.8	30	70	1	-40 to 125
74AUP1T32	Single supply 2-input voltage-translating OR gate	2.3 - 3.6	CMOS	±1.9	3.6	15	70	1	-40 to 125
74AUP2G32	Dual 2-input OR gate	1.1 - 3.6	CMOS	±1.9	7.9	30	70	2	-40 to 125
74HC1G32	Single 2-input OR gate	2.0 - 6.0	CMOS	±2.6	8.0	50	36	1	-40 to 125
74HCT1G32	Single 2-input OR gate; TTL-enabled	4.5 - 5.5	TTL	±2.0	10	50	36	1	-40 to 125
74HC2G32	Dual 2-input OR gate	2.0 - 6.0	CMOS	±5.2	9.0	50	36	2	-40 to 125
74HCT2G32	Dual 2-input OR gate; TTL-enabled	4.5 - 5.5	TTL	±4.0	13	50	36	2	-40 to 125
74HC32	Quad 2-input OR gate	2.0 - 6.0	CMOS	±5.2	6.0	50	36	4	-40 to 125
74HCT32	Quad 2-input OR gate	4.5 - 5.5	TTL	±4.0	9.0	50	36	4	-40 to 125
74HC4075	Triple 3-input OR gate	2.0 - 6.0	CMOS	±5.2	8.0	50	36	3	-40 to 125
74HCT4075	Triple 3-input OR gate; TTL-enabled	4.5 - 5.5	TTL	±4	10	50	36	3	-40 to 125
74LV1T32	Single supply 2-input translating OR gate	1.6 - 5.5	CMOS	±8	4.4	15	60	1	-40 to 125
74LV32A	Quad 2-input OR gate	2.0 - 5.5	CMOS	±12	4.2	15	45	4	-40 to 125
74LV7032A	Quad 2-input OR gate; Schmitt trigger	2.0 - 5.5	CMOS	±12	4.3	15	45	4	-40 to 125
74LVC1G32	Single 2-input OR gate	1.65 - 5.5	CMOS/LVTTL	±32	2.1	50	150	1	-40 to 125
74LVC1G332	Single 3-input OR gate	1.65 - 5.5	CMOS/LVTTL	±32	2.6	50	150	1	-40 to 125
74LVC2G32	Dual 2-input OR gate	1.65 - 5.5	CMOS/LVTTL	±32	2.2	50	150	2	-40 to 125
74LVC32A	Quad 2-input OR gate	1.2 - 3.6	CMOS/LVTTL	±24	2.1	50	150	4	-40 to 125
74VHC32	Quad 2-input OR gate	2.0 - 5.5	CMOS	±8	3.5	50	60	4	-40 to 125
74VHCT32	Quad 2-input OR gate; TTL-enabled	4.5 - 5.5	TTL	±8	5.0	50	60	4	-40 to 125
HEF4071B	Quad 2-input OR gate	3.0 - 15	CMOS	±2.4	20	50	10	4	-40 to 125
XC7SET32	Single 2-input OR gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.3	50	60	1	-40 to 125
XC7SH32	Single 2-input OR gate	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125

NOR Gates

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (typ) (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74AHC02	Quad 2-input NOR gate	2.0 - 5.5	CMOS	±8	2.9	50	60	4	-40 to 125
74AHCT02	Quad 2-input NOR gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.8	50	60	4	-40 to 125
74AHC1G02	Single 2-input NOR gate	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125
74AHCT1G02	Single 2-input NOR gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.5	50	60	1	-40 to 125
74ALVC02	Quad 2-input NOR gate	1.65 - 3.6	CMOS/ LVTTTL	±24	2.2	50	150	4	-40 to 85
74AUP1G02	Single 2-input NOR gate	1.1 - 3.6	CMOS	±1.9	8.3	30	70	1	-40 to 125
74AUP1T02	Single supply 2-input voltage-translating NOR gate	2.3 - 3.6	CMOS	±1.9	3.6	15	70	1	-40 to 125
74AUP2G02	Dual 2-input NOR gate	1.1 - 3.6	CMOS	±1.9	8.3	30	70	2	-40 to 125
74HC02	Quad 2-input NOR gate	2.0 - 6.0	CMOS	±5.2	7.0	50	36	4	-40 to 125
74HCT02	Quad 2-input NOR gate; TTL-enabled	4.5 - 5.5	TTL	±4	9.0	50	36	4	-40 to 125
74HC1G02	Single 2-input NOR gate	2.0 - 6.0	CMOS	±2.6	7.0	50	36	1	-40 to 125
74HCT1G02	Single 2-input NOR gate; TTL-enabled	4.5 - 5.5	TTL	±2.0	9.0	50	36	1	-40 to 125
74HC27	Triple 3-input NOR gate	2.0 - 6.0	CMOS	±5.2	8.0	50	36	3	-40 to 125
74HCT27	Triple 3-input NOR gate; TTL-enabled	4.5 - 5.5	TTL	±4	10	50	36	3	-40 to 125
74HC2G02	Dual 2-input NOR gate	2.0 - 6.0	CMOS	±5.2	9.0	50	36	2	-40 to 125
74HCT2G02	Dual 2-input NOR gate; TTL-enabled	4.5 - 5.5	TTL	±4	12	50	36	2	-40 to 125
74HC4002	Dual 4-input NOR gate	2.0 - 6.0	CMOS	±5.2	9.0	50	36	2	-40 to 125
74LV02A	Quad 2-input NOR gate	2.0 - 5.5	CMOS	±12	4.3	15	45	4	-40 to 125
74LV1T02	Single supply 2-input translating NOR gate	1.6 - 5.5	CMOS	±8	3.2	15	60	1	-40 to 125
74LVC02A	Quad 2-input NOR gate	1.2 - 3.6	CMOS/ LVTTTL	±24	2.1	50	150	4	-40 to 125
74LVC1G02	Single 2-input NOR gate	1.65 - 5.5	CMOS/ LVTTTL	±32	2.1	50	150	1	-40 to 125
74LVC1G27	Single 3-input NOR gate	1.65 - 5.5	CMOS/ LVTTTL	±32	2.6	50	150	1	-40 to 125
74LVC2G02	Dual 2-input NOR gate	1.65 - 5.5	CMOS/ LVTTTL	±32	2.4	50	150	2	-40 to 125
74LVT02	Quad 2-input NOR gate	2.7 - 3.6	TTL	-20 / 32	2.8	50	150	4	-40 to 85
74VHC02	Quad 2-input NOR gate	2.0 - 5.5	CMOS	±8	2.9	50	60	4	-40 to 125
74VHCT02	Quad 2-input NOR gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.8	50	60	4	-40 to 125
HEF4001B	Quad 2-input NOR gate	3.0 - 15	CMOS	±2.4	20	50	10	4	-40 to 85
XC7SET02	Single 2-input NOR gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.5	50	60	1	-40 to 125
XC7SH02	Single 2-input NOR gate	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125

EXCLUSIVE-OR Gates

Type number	Description	V _{cc} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (typ) (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74AHC1G86	2-input EXCLUSIVE-OR gate	2.0 - 5.5	CMOS	±8	3.4	50	60	1	-40 to 125
74AHC1G86	2-input EXCLUSIVE-OR gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.5	50	60	1	-40 to 125
74AHC86	Quad 2-input EXCLUSIVE-OR gate	2.0 - 5.5	CMOS	±8	3.4	50	60	4	-40 to 125
74AHC86	Quad 2-input EXCLUSIVE-OR gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.4	50	60	4	-40 to 125
74AUP1G386	Single 3-input EXCLUSIVE-OR gate	1.1 - 3.6	CMOS	±1.9	8.6	30	70	1	-40 to 125
74AUP1G86	Single 2-input Exclusive-OR gate	1.1 - 3.6	CMOS	±1.9	9.0	30	70	1	-40 to 125
74AUP1T86	Single supply 2-input translating EXCLUSIVE-OR gate	2.3 - 3.6	CMOS	±1.9	3.8	15	70	1	-40 to 125
74AUP2G86	Dual 2-input EXCLUSIVE-OR gate	1.1 - 3.6	CMOS	±1.9	9.0	30	70	2	-40 to 125
74HC1G86	Single 2-input EXCLUSIVE-OR gate	2.0 - 6.0	CMOS	±2.6	9.0	50	36	1	-40 to 125
74HCT1G86	Single 2-input EXCLUSIVE-OR gate; TTL-enabled	4.5 - 5.5	TTL	±2.0	10	50	36	1	-40 to 125
74HC2G86	Dual 2-input EXCLUSIVE-OR gate	2.0 - 6.0	CMOS	±5.2	9.0	50	36	2	-40 to 125
74HCT2G86	Dual 2-input EXCLUSIVE-OR gate; TTL-enabled	4.5 - 5.5	TTL	±4.0	11	50	36	2	-40 to 125
74HC86	Quad 2-input EXCLUSIVE-OR gate	2.0 - 6.0	CMOS	±5.2	11	50	36	4	-40 to 125
74HCT86	Quad 2-input EXCLUSIVE-OR gate; TTL-enabled	4.5 - 5.5	TTL	±4	14	50	36	4	-40 to 125
74LV1T86	Single supply 2-input translating EXCLUSIVE-OR gate	1.6 - 5.5	CMOS	±8	13.3	15	60	1	-40 to 125
74LVC1G386	Single 3-Input EXCLUSIVE-OR gate	1.65 - 5.5	CMOS/ LVTTTL	±32	4.5	50	150	1	-40 to 125
74LVC1G86	Single 2-input EXCLUSIVE-OR gate	1.65 - 5.5	CMOS/ LVTTTL	±32	2.4	50	150	1	-40 to 125
74LVC2G86	Dual 2-input EXCLUSIVE-OR gate	1.65 - 5.5	CMOS/ LVTTTL	±32	2.3	50	150	2	-40 to 125
74LVC86A	Quad 2-input EXCLUSIVE-OR gate	1.2 - 3.6	CMOS/ LVTTTL	±24	3.0	50	150	4	-40 to 125
HEF4030B	Quad 2-input EXCLUSIVE-OR gate	3.0 - 15	CMOS	±2.4	30	50	10	4	-40 to 85
HEF4070B	Quad 2-input EXCLUSIVE-OR gate	3.0 - 15	CMOS	±2.4	30	50	10	4	-40 to 85
XC7SET86	2-input EXCLUSIVE-OR gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.5	50	60	1	-40 to 125
XC7SH86	2-input EXCLUSIVE-OR gate	2.0 - 5.5	CMOS	±8	3.4	50	60	1	-40 to 125

EXCLUSIVE-NOR Gates

Type number	Description	V _{cc} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (typ) (pF)	f _{max} (MHz)	T _{amb} (°C)
74AUP1T87	Single supply 2-input translating EXCLUSIVE-NOR gate	2.3 - 3.6	CMOS	±4	3.9	15	70	-40 to 125
74LV1T87	Single supply 2-input translating EXCLUSIVE-NOR gate	1.6 - 5.5	CMOS	±8	15.8	15	60	-40 to 125
HEF4077B	Quad 2-input EXCLUSIVE-NOR gate	3.0 - 15	CMOS	±2.4	30	50	10	-40 to 85

Combination Gates

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (typ) (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74AUP1G0832	Single 3-input AND-OR gate	1.1 - 3.6	CMOS	±1.9	6.7	30	70	1	-40 to 125
74AUP1G3208	Single 3-input OR-AND gate	1.1 - 3.6	CMOS	±1.9	7.4	30	70	1	-40 to 125
74AUP1G885	Dual function gate	1.1 - 3.6	CMOS	±1.9	7.6	30	70	1	-40 to 125
74AUP1Z04	Crystal driver with enable and internal resistor	1.1 - 3.6	CMOS	±1.9	5.6	30	70	1	-40 to 125
74AUP1Z125	Crystal driver with enable and internal resistor (3-state)	1.1 - 3.6	CMOS	±1.9	4.7	30	70	1	-40 to 125
74AUP2G0604	Inverter with open drain and inverter	1.1 - 3.6	CMOS	±1.9	4.0	30	70	2	-40 to 125
74AUP2G3404	Buffer and inverter	1.1 - 3.6	CMOS	±1.9	4.0	30	70	2	-40 to 125
74AUP2G3407	Buffer and buffer with open drain	1.1 - 3.6	CMOS	±1.9	4.1	30	70	2	-40 to 125
74AUP3G0434	Dual inverter and single buffer	1.1 - 3.6	CMOS	±1.9	4.0	30	70	3	-40 to 125
74AUP3G3404	Dual buffer and single inverter	1.1 - 3.6	CMOS	±1.9	4.0	30	70	3	-40 to 125
74LVC1GX04	Crystal driver	1.65 - 5.5	CMOS/ LVTTTL	±24	2.8	50	150	1	-40 to 125
HEF4007UB	Dual complementary pair and inverter	3.0 - 15	CMOS	±3.4	15	50	10	2	-40 to 85

Configurable Gates

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (typ) (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74AUP1G57	Configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.7	30	70	1	-40 to 125
74AUP1G58	Configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.7	30	70	1	-40 to 125
74AUP1G97	Configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.7	30	70	1	-40 to 125
74AUP1G98	Configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.9	30	70	1	-40 to 125
74AUP1G3208	Configurable multiple function gate	0.8 - 3.6	CMOS	±4	6.6	30	70	1	-40 to 125
74AUP1T57	Configurable gate with voltage-level translation	2.3 - 3.6	CMOS	±4	3.8	15	70	1	-40 to 125
74AUP1T58	Configurable gate with voltage-level translation	2.3 - 3.6	CMOS	±4	3.8	15	70	1	-40 to 125
74AUP1T97	Configurable gate with voltage-level translation	2.3 - 3.6	CMOS	±4	3.8	15	70	1	-40 to 125
74AUP1T98	Configurable gate with voltage-level translation	2.3 - 3.6	CMOS	±4	3.8	15	70	1	-40 to 125
74AUP2G57	Dual configurable gate; Schmitt-trigger	0.8 - 3.6	CMOS	±4	6.6	30	70	1	-40 to 125
74AUP2G58	Dual configurable gate; Schmitt-trigger	0.8 - 3.6	CMOS	±4	6.6	30	70	1	-40 to 125
74AUP2G97	Dual configurable gate; Schmitt-trigger	0.8 - 3.6	CMOS	±4	6.6	30	70	1	-40 to 125
74AUP2G98	Dual configurable gate; Schmitt-trigger	0.8 - 3.6	CMOS	±4	6.6	30	70	1	-40 to 125
74LVC1G57	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS/ LVTTTL	±32	6.3	50	150	1	-40 to 125
74LVC1G58	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS/ LVTTTL	±32	6.3	50	150	1	-40 to 125
74LVC1G97	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS/ LVTTTL	±32	6.3	50	150	1	-40 to 125
74LVC1G98	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS/ LVTTTL	±32	6.3	50	150	1	-40 to 125
74LVC1G99	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS/ LVTTTL	±32	8.4	50	150	1	-40 to 125

Schmitt-triggers

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74AHC132	Quad 2-input NAND gate Schmitt-trigger	2.0 - 5.5	CMOS	±8	3.3	50	60	4	-40 to 125
74AHC14	Hex inverter Schmitt-trigger	2.0 - 5.5	CMOS	±8	3.2	50	60	6	-40 to 125
74AHC1G14	Single inverter Schmitt-trigger	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125
74AHC1G17	Single buffer Schmitt-trigger	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125
74AHC3G14	Triple inverter Schmitt-trigger	2.0 - 5.5	CMOS	±8	3.2	50	60	3	-40 to 125
74AHCT132	Quad 2-input NAND gate Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	3.5	50	60	4	-40 to 125
74AHCT14	Hex inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	4.0	50	60	6	-40 to 125
74AHCT17A	Hex buffer Schmitt-trigger	4.5 - 5.5	TTL	±8	3.2	50	60	8	-40 to 125
74AHCT1G14	Single inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	4.1	50	60	1	-40 to 125
74AHCT1G17	Single buffer Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	4.1	50	60	1	-40 to 125
74AHCT3G14	Triple inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	4.1	50	60	3	-40 to 125
74AHCV05A	Hex inverter; Schmitt trigger; open-drain	2.0 - 5.5	CMOS	±16	5.8	15	10	6	-40 to 125
74AHCV07A	Hex buffer Schmitt-trigger; open-drain	1.8 - 5.5	CMOS	16	3.8	15	60	6	-40 to 125
74AHCV14A	Hex inverter Schmitt-trigger	1.8 - 5.5	CMOS	±16	3.2	15	60	6	-40 to 125
74AHCV17A	Hex buffer Schmitt-trigger	1.8 - 5.5	CMOS	±16	3.2	15	60	6	-40 to 125
74AHCV244A	Octal buffer/line driver Schmitt-trigger (3-state)	1.8 - 5.5	CMOS	±16	3.0	15	60	8	-40 to 125
74AHCV245A	Octal transceiver Schmitt-trigger (3-state)	1.8 - 5.5	CMOS	±16	3.2	15	60	8	-40 to 125
74AHCV541A	Octal buffer/line driver Schmitt-trigger (3-state)	1.8 - 5.5	CMOS	±16	3.0	15	60	8	-40 to 125
74ALVC14	Hex inverter Schmitt-trigger	1.65 - 3.6	TTL	±24	2.4	50	150	6	-40 to 85
74AUP1G132	Single 2-input NAND gate Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	10.0	30	70	1	-40 to 125
74AUP1G14	Single inverter Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	4.7	30	70	1	-40 to 125
74AUP1G17	Single buffer Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	7.8	30	70	1	-40 to 125
74AUP1G57	Configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.7	30	70	1	-40 to 125
74AUP1G58	Configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.7	30	70	1	-40 to 125
74AUP1G97	Configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.7	30	70	1	-40 to 125
74AUP1G98	Configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.9	30	70	1	-40 to 125
74AUP2G132	Dual 2-input NAND gate Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	10	30	70	2	-40 to 125
74AUP2G14	Dual inverter Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	4.7	30	70	2	-40 to 125
74AUP2G17	Dual buffer Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	7.8	30	70	2	-40 to 125
74AUP2G58	Dual configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.7	30	70	2	-40 to 125
74AUP2G97	Dual configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.7	30	70	2	-40 to 125
74AUP2G98	Dual configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.9	30	70	2	-40 to 125
74AUP3G14	Triple inverter Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	2.4	30	70	3	-40 to 125

Schmitt-triggers

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74AUP3G17	Triple Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	2.4	30	70	3	-40 to 125
74HC132	Quad 2-input NAND gate Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	11	50	36	4	-40 to 125
74HC14	Hex inverter Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	12	50	36	6	-40 to 125
74HC1G14	Single inverter Schmitt-trigger	2.0 - 6.0	CMOS	±2.6	10	50	36	1	-40 to 125
74HC2G14	Dual inverter Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	16	50	36	2	-40 to 125
74HC2G17	Dual buffer Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	12	50	36	2	-40 to 125
74HC3G14	Triple inverter Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	16	50	36	3	-40 to 125
74HC7014	Hex buffer precision Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	27	50	36	6	-40 to 125
74HC7540	Octal inverter/line driver Schmitt-trigger (3-state)	2.0 - 6.0	CMOS	±7.8	11	50	36	8	-40 to 125
74HC7541	Octal buffer/line driver Schmitt-trigger (3-state)	2.0 - 6.0	CMOS	±7.8	11	50	36	8	-40 to 125
74HC9114	9-bit inverter Schmitt-trigger; open drain (3-state)	2.0 - 6.0	CMOS	5.2	12	50	36	9	-40 to 125
74HC9115	9-bit buffer Schmitt-trigger; open drain (3-state)	2.0 - 6.0	CMOS	5.2	12	50	36	9	-40 to 125
74HCT132	Quad 2-input NAND gate Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±4	17	50	36	4	-40 to 125
74HCT14	Hex inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±4	17	50	36	6	-40 to 125
74HCT1G14	Single inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±2.0	15	50	36	1	-40 to 125
74HCT2G14	Dual inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±4.0	21	50	36	2	-40 to 125
74HCT2G17	Dual buffer Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±4.0	21	50	36	2	-40 to 125
74HCT3G14	Triple inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±4.0	21	50	36	3	-40 to 125
74HCT7540	Octal inverter/line driver Schmitt-trigger; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	16	50	36	8	-40 to 125
74HCT7541	Octal buffer/line driver Schmitt-trigger; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	16	50	36	8	-40 to 125
74HCT9114	9-bit inverter Schmitt-trigger; open drain; TTL-enabled (3-state)	4.5 - 5.5	TTL	4	13	50	36	9	-40 to 125
74LV132	Quad 2-input NAND gate Schmitt-trigger	1.0 - 5.5	TTL	±12	10	50	30	4	-40 to 125
74LV14	Hex inverter Schmitt-trigger	1.0 - 5.5	TTL	±12	13	50	30	6	-40 to 125
74LV14A	Hex inverter Schmitt-trigger	2.0 - 5.5	CMOS	±12	3.4	15	60	6	-40 to 125
74LV7032A	Quad 2-input OR gate; Schmitt trigger	2.0 - 5.5	CMOS	±12	4.3	15	45	4	-40 to 125
74LVC132A	Quad 2-input NAND gate Schmitt-trigger	1.2 - 3.6	CMOS/LVTTL	±24	3.4	50	175	4	-40 to 125
74LVC14A	Hex inverter Schmitt-trigger	1.2 - 3.6	CMOS/LVTTL	±24	3.2	50	175	6	-40 to 125
74LVC1G14	Single inverter Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	3.0	50	175	1	-40 to 125
74LVC1G17	Single buffer Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	3.0	50	175	1	-40 to 125
74LVC1G57	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	6.3	50	150	1	-40 to 125
74LVC1G58	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	6.3	50	150	1	-40 to 125
74LVC1G97	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	6.3	50	150	1	-40 to 125

Schmitt-triggers

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74LVC1G98	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	6.3	50	150	1	-40 to 125
74LVC1G99	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	8.4	50	150	1	-40 to 125
74LVC2G14	Dual inverter Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	3.9	50	175	2	-40 to 125
74LVC2G17	Dual buffer Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	3.6	50	175	2	-40 to 125
74LVC3G14	Triple inverter Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	3.2	50	175	3	-40 to 125
74LVC3G17	Triple buffer Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	3.6	50	175	3	-40 to 125
74LVT14	Hex inverter Schmitt-trigger	2.7 - 3.6	TTL	±32	3.8	50	150	6	-40 to 125
74VHC14	Hex inverter Schmitt-trigger	2.0 - 5.5	CMOS	±8	3.2	50	60	6	-40 to 125
74VHCT14	Hex inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	4.1	50	60	6	-40 to 125
HEF40106B	Hex inverter Schmitt-trigger	3.0 - 15	CMOS	±2.4	30	50	10	6	-40 to 85
HEF4093B	Quad 2-input NAND gate Schmitt-trigger	3.0 - 15	CMOS	±2.4	30	50	10	4	-40 to 125
XC7SET14	Single inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	4.1	50	60	1	-40 to 125
XC7SH14	Single inverter Schmitt-trigger	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125
XC7WH14	Triple inverter Schmitt-trigger	2.0 - 5.5	CMOS	±8	3.2	50	60	3	-40 to 125
XC7WT14	Triple inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	4.1	50	60	3	-40 to 125

Flip-flops

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	f _{max} (MHz)	T _{amb} (°C)
74ABT74	Dual D-type flip-flop with set and reset; positive-edge trigger	4.5 - 5.5	TTL	-0.75	3.0	50	250	-40 to 85
74AHC1G79	Single D-type flip-flop; positive-edge trigger	2.0 - 5.5	CMOS	±8	3.5	50	90	-40 to 125
74AHC273	Octal D-type flip-flop with reset; positive-edge trigger	2.0 - 5.5	CMOS	±8	4.2	50	165	-40 to 125
74AHC374	Octal D-type flip-flop; positive-edge trigger (3-state)	2.0 - 5.5	CMOS	±8	4.4	50	185	-40 to 125
74AHC574	Octal D-type flip-flop; positive-edge trigger (3-state)	2.0 - 5.5	CMOS	±8	4.4	50	130	-40 to 125
74AHC74	Dual D-type flip-flop with set and reset; positive-edge trigger	2.0 - 5.5	CMOS	±8	3.7	50	170	-40 to 125
74AHCT1G79	Single D-type flip-flop; positive-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±8	3.5	50	90	-40 to 125
74AHCT273	Octal D-type flip-flop with reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±8	4.0	50	120	-40 to 125
74AHCT374	Octal D-type flip-flop; positive-edge trigger (3-state)	4.5 - 5.5	TTL	±8	4.3	50	140	-40 to 125
74AHCT574	Octal D-type flip-flop; positive-edge trigger; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	4.4	50	130	-40 to 125
74AHCT74	Dual D-type flip-flop with set and reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±8	3.3	50	160	-40 to 125
74ALVC374	Octal D-type flip-flop; positive-edge trigger (3-state)	1.65 - 3.6	TTL	±24	2.5	50	300	-40 to 85
74ALVC574	Octal D-type flip-flop; positive-edge trigger (3-state)	1.65 - 3.6	TTL	±24	2.5	50	300	-40 to 85
74ALVC74	Dual D-type flip-flop with set and reset; positive-edge trigger	1.65 - 3.6	TTL	±24	2.3	50	425	-40 to 85
74ALVCH16374	16-bit D-type flip-flop with bus hold; positive-edge trigger (3-state)	1.2 - 3.6	TTL	±24	2.3	50	350	-40 to 85
74ALVCH16821	20-bit D-type flip-flop with bus hold; positive-edge trigger (3-state)	2.3 - 3.6	TTL	±24	2.5	50	350	-40 to 85
74ALVCH16823	18-bit D-type flip-flop with bus hold; positive-edge trigger (3-state)	1.2 - 3.6	TTL	±24	2.1	50	350	-40 to 85
74ALVT162821	20-bit D-type flip-flop with source termination; positive-edge trigger (3-state)	2.3 - 3.6	TTL	±12	3.2	50	150	-40 to 85
74ALVT162823	18-bit D-type flip-flop with source termination; positive-edge trigger (3-state)	2.3 - 3.6	TTL	±12	3.0	50	150	-40 to 85
74ALVT16821	20-bit D-type flip-flop; positive-edge trigger (3-state)	2.3 - 3.6	TTL	-32 / 64	1.8	50	150	-40 to 85
74ALVT16823	18-bit D-type flip-flop; positive-edge trigger (3-state)	2.3 - 3.6	TTL	-32 / 64	1.9	50	250	-40 to 85
74AUP1G175	Single D flip-flop with reset; positive-edge trigger	1.1 - 3.6	CMOS	±1.9	7.4	30	70	-40 to 125
74AUP1G374	Single D-type flip-flop; positive-edge trigger (3-state)	1.1 - 3.6	CMOS	±1.9	7.9	30	400	-40 to 125
74AUP1G74	Single D-type flip-flop with set and reset; positive-edge trigger	1.1 - 3.6	CMOS	±1.9	9.2	30	400	-40 to 125
74AUP1G79	Single D-type flip-flop; positive-edge trigger	1.1 - 3.6	CMOS	±1.9	9.1	30	400	-40 to 125
74AUP1G80	Single D-type flip-flop; positive-edge trigger	1.1 - 3.6	CMOS	±1.9	9.1	30	400	-40 to 125
74AUP2G79	Dual D-type flip-flop; positive-edge trigger	1.1 - 3.6	CMOS	±1.9	8.5	30	400	-40 to 125
74AUP2G80	Dual D-type flip-flop; positive-edge trigger	1.1 - 3.6	CMOS	±1.9	9.1	30	400	-40 to 125
74HC107	Dual JK-type flip-flop with reset; negative-edge trigger	2.0 - 6.0	CMOS	±5.2	16	50	78	-40 to 125
74HC109	Dual JK-type flip-flop with set and reset; positive-edge trigger	2.0 - 6.0	CMOS	±5.2	15	50	75	-40 to 125
74HC112	Dual JK-type flip-flop with set and reset; negative-edge trigger	2.0 - 6.0	CMOS	±5.2	15	50	66	-40 to 125
74HC173	Quad D-type flip-flop; positive-edge trigger (3-state)	2.0 - 6.0	CMOS	±7.8	17	50	88	-40 to 125
74HC174	Hex D-type flip-flop with reset; positive-edge trigger	2.0 - 6.0	CMOS	±5.2	17	50	99	-40 to 125
74HC175	Quad D-type flip-flop with reset; positive-edge trigger	2.0 - 6.0	CMOS	±5.2	17	50	83	-40 to 125
74HC273	Octal D-type flip-flop with reset; positive-edge trigger	2.0 - 6.0	CMOS	±5.2	15	50	122	-40 to 125
74HC374	Octal D-type flip-flop; positive-edge trigger (3-state)	2.0 - 6.0	CMOS	±7.8	14	50	83	-40 to 125

Flip-Flops

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	f _{max} (MHz)	T _{amb} (°C)
74HC377	Octal D-type flip-flop with data enable; positive-edge trigger	2.0 - 6.0	CMOS	±7.8	13	50	83	-40 to 125
74HC574	Octal D-type flip-flop; positive-edge trigger (3-state)	2.0 - 6.0	CMOS	±7.8	14	50	133	-40 to 125
74HC73	Dual JK-type flip-flop with reset; negative-edge trigger	2.0 - 6.0	CMOS	±5.2	16	50	77	-40 to 125
74HC74	Dual D-type flip-flop with set and reset; positive-edge trigger	2.0 - 6.0	CMOS	±5.2	14	50	82	-40 to 125
74HCT107	Dual JK-type flip-flop with reset; negative-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±4	16	50	73	-40 to 125
74HCT109	Dual JK-type flip-flop with set and reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±4	17	50	61	-40 to 125
74HCT112	Dual JK-type flip-flop with set and reset; negative-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±4	19	50	70	-40 to 125
74HCT173	Quad D-type flip-flop; positive-edge trigger; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	17	50	88	-40 to 125
74HCT174	Hex D-type flip-flop with reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±4	18	50	69	-40 to 125
74HCT175	Quad D-type flip-flop with reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±4	16	50	54	-40 to 125
74HCT273	Octal D-type flip-flop with reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±4	15	50	36	-40 to 125
74HCT374	Octal D-type flip-flop; positive-edge trigger; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	13	50	48	-40 to 125
74HCT377	Octal D-type flip-flop with data enable; positive-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±6	14	50	53	-40 to 125
74HCT574	Octal D-type flip-flop; positive-edge trigger; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	15	50	76	-40 to 125
74HCT74	Dual D-type flip-flop with set and reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±4	15	50	59	-40 to 125
74LV74	Dual D-type flip-flop with set and reset; positive-edge trigger	1.0 - 5.5	TTL	±12	11	50	75	-40 to 125
74LVC16374A	16-bit D-type flip-flop; positive-edge trigger (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	3.8	50	150	-40 to 125
74LVC1G175	Single D flip-flop with reset; positive-edge trigger	1.65 - 5.5	CMOS/LVTTL	±32	3.1	50	300	-40 to 125
74LVC1G74	Single D-type flip-flop with set and reset; positive-edge trigger	1.65 - 5.5	CMOS/LVTTL	±32	3.5	50	280	-40 to 125
74LVC1G79	Single D-type flip-flop; positive-edge trigger	1.65 - 5.5	CMOS/LVTTL	±32	2.2	50	450	-40 to 125
74LVC1G80	Single D-type flip-flop; positive-edge trigger	1.65 - 5.5	CMOS/LVTTL	±32	2.4	50	450	-40 to 125
74LVC273	Octal D-type flip-flop with reset; positive-edge trigger	1.2 - 3.6	CMOS/LVTTL	±24	6.0	50	230	-40 to 125
74LVC2G74	Single D-type flip-flop with set and reset; positive-edge trigger	1.65 - 5.5	CMOS/LVTTL	±32	3.5	50	280	-40 to 125
74LVC374A	Octal D-type flip-flop; positive-edge trigger (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	2.7	50	100	-40 to 125
74LVC377	Octal D-type flip-flop with data enable; positive-edge trigger	1.2 - 3.6	CMOS/LVTTL	±24	6.0	50	230	-40 to 125
74LVC574A	Octal D-type flip-flop; positive-edge trigger (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	3.2	50	150	-40 to 125
74LVC74A	Dual D-type flip-flop with set and reset; positive-edge trigger	1.2 - 3.6	CMOS/LVTTL	±24	2.5	50	250	-40 to 125
74LVCH162374A	16-bit D-type flip-flop with bus hold and 30 Ω termination resistors; positive-edge trigger (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	3.8	50	150	-40 to 125
74LVCH16374A	16-bit D-type flip-flop with bus hold; positive-edge trigger (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	3.8	50	150	-40 to 125
74LVT162374	16-bit D-type flip-flop with bus hold and 30 Ω termination resistors; positive-edge trigger (3-state)	2.7 - 3.6	TTL	±12	3.0	50	150	-40 to 85
74LVT16374A	16-bit D-type flip-flop with bus hold; positive-edge trigger (3-state)	2.7 - 3.6	TTL	-32 / 64	3.0	50	150	-40 to 85
74LVTH16374A	16-bit D-type flip-flop with bus hold; positive-edge trigger (3-state)	2.7 - 3.6	TTL	-32 / 64	3.0	50	150	-40 to 85
HEF4013B	Dual D-type flip-flop with set and reset; positive-edge trigger	3.0 - 15.0	CMOS	±2.4	30	50	40	-40 to 85
HEF40175B	Quad D-type flip-flop with reset; positive-edge trigger	3.0 - 15.0	CMOS	±2.4	25	50	45	-40 to 85
HEF4027B	Dual JK-type flip-flop	3.0 - 15.0	CMOS	±2.4	30	50	30	-40 to 85

Latches / Registered Drivers

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	Number of bits	T _{amb} (°C)
74AHC373	Octal D-type transparent latch (3-state)	2.0 - 5.5	CMOS	±8	4.3	50	8	-40 to 125
74AHC573	Octal D-type transparent latch (3-state)	2.0 - 5.5	CMOS	±8	4.2	50	8	-40 to 125
74AHCT573	Octal D-type transparent latch; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	3.9	50	8	-40 to 125
74ALVC373	Octal D-type transparent latch (3-state)	1.65 - 3.6	TTL	±24	2.2	50	8	-40 to 85
74ALVC573	Octal D-type transparent latch (3-state)	1.65 - 3.6	TTL	±24	2.2	50	8	-40 to 85
74ALVCH16373	16-bit D-type transparent latch with bus hold (3-state)	2.3 - 3.6	TTL	±24	2.1	50	16	-40 to 85
74ALVCH16841	20-bit D-type transparent latch with bus hold (3-state)	2.3 - 3.6	TTL	±24	2.4	50	20	-40 to 85
74ALVCH16843	18-bit D-type transparent latch with bus hold (3-state)	2.3 - 3.6	TTL	±24	2.1	50	18	-40 to 85
74ALVT16373	16-bit D-type transparent latch with bus hold (3-state)	2.3 - 3.6	TTL	-32 / 64	1.8	50	16	-40 to 85
74AUP1G373	Single D-type transparent latch (3-state)	1.1 - 3.6	CMOS	±1.9	8.5	30	1	-40 to 125
74HC259	8-bit addressable latch	2.0 - 6.0	CMOS	±5.2	18	50	8	-40 to 125
74HC373	Octal D-type transparent latch (3-state)	2.0 - 6.0	CMOS	±7.8	12	50	8	-40 to 125
74HC573	Octal D-type transparent latch (3-state)	2.0 - 6.0	CMOS	±7.8	14	50	8	-40 to 125
74HC75	Quad bistable transparent latch	2.0 - 6.0	CMOS	±5.2	11	50	4	-40 to 125
74HCT259	8-bit addressable latch; TTL-enabled	4.5 - 5.5	TTL	±4	20	50	8	-40 to 125
74HCT373	Octal D-type transparent latch; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	14	50	8	-40 to 125
74HCT573	Octal D-type transparent latch; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	17	50	8	-40 to 125
74LVC162373A	16-bit D-type transparent latch with 30 Ω termination resistors (3-state)	1.2 - 3.6	CMOS/LVTTL	±12	3.2	50	16	-40 to 125
74LVC16373A	16-bit D-type transparent latch (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	3.0	50	16	-40 to 125
74LVC373A	Octal D-type transparent latch (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	3.0	50	8	-40 to 125
74LVC573A	Octal D-type transparent latch (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	3.4	50	8	-40 to 125
74LVCH162373A	16-bit D-type transparent latch with bus hold and 30 Ω termination resistors (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	3.2	50	16	-40 to 125
74LVCH16373A	16-bit D-type transparent latch with bus hold (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	3.0	50	16	-40 to 125
74LVT162373	16-bit D-type transparent latch with bus hold and 30 Ω termination resistors (3-state)	2.7 - 3.6	TTL	±12	2.5	50	16	-40 to 85
74LVT16373A	16-bit D-type transparent latch with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	1.9	50	16	-40 to 85
74LVT573	Octal D-type transparent latch (3-state)	2.7 - 3.6	TTL	-32 / 64	2.7	50	8	-40 to 85
HEF4043B	Quad R/S latch with set and reset (3-state)	3.0 - 15.0	CMOS	±2.4	25	50	4	-40 to 85

Shift Registers

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74AHC164	8-bit serial-in/parallel-out shift register	2.0 - 5.5	CMOS	+/- 8	4.5	115	8	-40 to 125
74AHCT164	8-bit serial-in/parallel-out shift register; TTL enabled	4.5 - 5.5	TTL	+/- 8	3.4	115	8	-40 to 125
74AHC594	8-bit serial-in/parallel-out shift register with output storage register	2.0 - 5.5	CMOS	+/- 8	4.1	160	8	-40 to 125
74AHCT594	8-bit serial-in/parallel-out shift register with output storage register; TTL enabled	4.5 - 5.5	TTL	+/- 8	3.8	160	8	-40 to 125
74AHC595	8-bit serial-in/parallel-out shift register with output storage register (3-state)	2.0 - 5.5	CMOS	+/- 8	4	170	8	-40 to 125
74AHCT595	8-bit serial-in/parallel-out shift register with output storage register; TTL enabled (3-state)	4.5 - 5.5	TTL	+/- 8	3.8	170	8	-40 to 125
74HC299	8-bit universal shift register (3-state)	2.0 - 6.0	CMOS	+/- 7.8	19	54	8	-40 to 125
74HC164	8-bit serial-in/parallel-out shift register	2.0 - 6.0	CMOS	+/- 5.2	12	78	8	-40 to 125
74HCT164	8-bit serial-in/parallel-out shift register; TTL enabled	2.0 - 6.0	TTL	+/- 5.2	12	78	8	-40 to 125
74HC165	8-bit parallel or serial-in/serial-out shift register	2.0 - 6.0	CMOS	+/- 5.2	16	56	8	-40 to 125
74HCT165	8-bit parallel or serial-in/serial-out shift register; TTL enabled	4.5 - 5.5	TTL	+/- 4	14	48	8	-40 to 125
74HC166	8-bit parallel or serial-in/serial-out shift register	2.0 - 6.0	CMOS	+/- 5.2	15	63	8	-40 to 125
74HCT166	8-bit parallel or serial-in/serial-out shift register; TTL enabled	4.5 - 5.5	TTL	+/- 4.0	23	50	8	-40 to 125
74HC594	8-bit serial-in/parallel-out shift register with output storage register	2.0 - 6.0	CMOS	+/- 7.8	14	109	8	-40 to 125
74HCT594	8-bit serial-in/parallel-out shift register with output storage register; TTL enabled	4.5 - 5.5	TTL	+/- 6	15	100	8	-40 to 125
74HC595	8-bit serial-in/parallel-out shift register with output storage register (3-state)	2.0 - 6.0	CMOS	+/- 7.8	16	108	8	-40 to 125
74HCT595	8-bit serial-in/parallel-out shift register with output storage register; TTL enabled (3-state)	4.5 - 5.5	TTL	+/- 6	25	57	8	-40 to 125
74HC597	8-bit parallel or serial-in/parallel-out shift register with parallel input storage register	2.0 - 6.0	CMOS	+/- 5.2	16	108	8	-40 to 125
74HCT597	8-bit parallel or serial-in/parallel-out shift register with parallel input storage register; TTL enabled	4.5 - 5.5	TTL	+/- 4	20	83	8	-40 to 125
74HC4094	8-bit serial-in/serial or parallel-out shift register with output register (3-state)	2.0 - 6.0	CMOS	+/- 5.2	15	95	8	-40 to 125
74HCT4094	8-bit serial-in/serial or parallel-out shift register with output register; TTL enabled (3-state)	4.5 - 5.5	TTL	+/- 4	19	86	8	-40 to 125
74LV164	8-bit serial-in/parallel-out shift register	1.0 - 5.5	CMOS	+/- 12	12	78	8	-40 to 125
74LV165	8-bit parallel or serial-in/serial-out shift register	1.0 - 5.5	CMOS	+/- 12	18	78	8	-40 to 125
74LV165A	8-bit parallel or serial-in/serial-out shift register	1.0 - 5.5	CMOS	+/- 12	7.5	115	8	-40 to 125
74LV595	8-bit serial-in/parallel-out shift register with output storage register (3-state)	1.0 - 3.6	CMOS	+/- 8	15	77	8	-40 to 125
74LV4094	8-bit serial-in/serial or parallel-out shift register with output register (3-state)	1.0 - 3.6	CMOS	+/- 6	14	95	8	-40 to 125
74LVC594A	8-bit serial-in/parallel-out shift register with output storage register	1.2 - 5.5	CMOS/LVTTL	+/- 24	3.1	180	8	-40 to 125
74LVC595A	8-bit serial-in/parallel-out shift register with output storage register (3-state)	1.2 - 5.5	CMOS/LVTTL	+/- 24	4	180	8	-40 to 125
74LVC8T595	Dual supply 8-bit serial-in/serial-out or parallel-out shift register; 3-state	1.1 - 5.5	CMOS/ LVTTTL	±24	4.1	15	8	-40 to 125
74VHC595	8-bit serial-in/parallel-out shift register with output storage register (3-state)	2.0 - 5.5	CMOS	+/- 8	4	170	8	-40 to 125
74VHCT595	8-bit serial-in/parallel-out shift register with output storage register; TTL enabled (3-state)	4.5 - 5.5	TTL	+/- 8	3.8	170	8	-40 to 125
HEF4014B	8-bit shift register with synchronous parallel enable	4.5 - 15	CMOS	+/- 2.4	40	40	8	-40 to 85
HEF4015B	dual 4-bit serial-in/parallel-out shift register	4.5 - 15	CMOS	+/- 2.4	40	44	2	-40 to 85
HEF4021B	8-bit shift register with asynchronous parallel load	4.5 - 15	CMOS	+/- 2.4	40	40	8	-40 to 85
HEF4094B	8-bit serial-in/serial or parallel-out shift register with output register (3-state)	4.5 - 15	CMOS	+/- 2.4	50	28	8	-40 to 85
HEF4794B	8-bit serial-in/serial or parallel-out shift register with output register LED driver (3-state)	4.5 - 15	CMOS	-20	45	28	8	-40 to 85
HEF4894B	12-bit serial-in/serial or parallel-out shift register with output register LED driver (3-state)	4.5 - 15	CMOS	-20	45	28	12	-40 to 85

Counters / Frequency dividers

Type number	Description	V _{CC} (V)	Output drive capability (mA)	Logic switching levels	t _{pd} (ns)	Output Load C _L (pF)	f _{max} (MHz)	T _{amb} (°C)
74AHC1G4208	08-stage divider and oscillator	2.0 - 5.5	±8	CMOS	14	15	165	-40 to 125
74AHC1G4210	10-stage divider and oscillator	2.0 - 5.5	±5.2	CMOS	17	15	125	-40 to 125
74AHC1G4212	12-stage divider and oscillator	2.0 - 5.5	±5.2	CMOS	20	15	125	-40 to 125
74AHC1G4214	14-stage divider and oscillator	2.0 - 5.5	±5.2	CMOS	23	15	125	-40 to 125
74AHC1G4215	14-stage divider and oscillator	2.0 - 5.5	± 8	CMOS	24	15	165	-40 to 125
74HC161	Presetable synchronous 4-bit binary counter; asynchronous reset	2.0 - 6.0	±5.2	CMOS	19	50	48	-40 to 125
74HC191	Presetable synchronous 4-bit binary up/down counter	2.0 - 6.0	±5.2	CMOS	22	50	36	-40 to 125
74HC193	Presetable synchronous 4-bit binary up/down counter; separate up/down clocks	2.0 - 6.0	±5.2	CMOS	20	50	49	-40 to 125
74HCT193	Presetable synchronous 4-bit binary up/down counter; separate up/down clocks; TTL-enabled	4.5 - 5.5	±4.0	TTL	20	50	43	-40 to 125
74HC390	Dual decade ripple counter	2.0 - 6.0	±5.2	CMOS	14	50	60	-40 to 125
74HCT390	Dual decade ripple counter; TTL-enabled	4.5 - 5.5	±4.0	TTL	18	50	55	-40 to 125
74HC393	Dual 4-bit binary ripple counter	2.0 - 6.0	±5.2	CMOS	12	50	107	-40 to 125
74HCT393	Dual 4-bit binary ripple counter; TTL-enabled	4.5 - 5.5	±4.0	TTL	20	50	53	-40 to 125
74HC4017	Johnson decade counter with 10 decoded outputs	2.0 - 6.0	±5.2	CMOS	18	50	77	-40 to 125
74HCT4017	Johnson decade counter with 10 decoded outputs; TTL-enabled	4.5 - 5.5	±4.0	TTL	21	50	67	-40 to 125
74HC4020	14-stage binary ripple counter	2.0 - 6.0	±5.2	CMOS	11	50	52	-40 to 125
74HCT4020	14-stage binary ripple counter; TTL-enabled	4.5 - 5.5	±4.0	TTL	15	50	52	-40 to 125
74HC4040	12-stage binary ripple counter	2.0 - 6.0	±5.2	CMOS	14	50	90	-40 to 125
74HCT4040	12-stage binary ripple counter; TTL-enabled	4.5 - 5.5	±4.0	TTL	16	50	79	-40 to 125
74HC4060	14-stage binary ripple counter with oscillator	2.0 - 6.0	±5.2	CMOS	31	50	95	-40 to 125
74HCT4060	14-stage binary ripple counter with oscillator; TTL-enabled	4.5 - 5.5	±4.0	TTL	31	50	88	-40 to 125
74HC4520	Dual 4-bit synchronous binary counter	2.0 - 6.0	±5.2	CMOS	24	50	64	-40 to 125
74HCT4520	Dual 4-bit synchronous binary counter; TTL-enabled	4.5 - 5.5	±4.0	TTL	24	50	64	-40 to 125
74HC40103	8-bit synchronous binary down counter	2.0 - 6.0	±5.2	CMOS	15	50	14	-40 to 125
74HC4024	7-stage binary ripple counter	2.0 - 6.0	±5.2	CMOS	14	50	90	-40 to 125
74HC590	8-bit binary counter with output register (3-state)	2.0 - 6.0	±5.2	CMOS	19	50	61	-40 to 125
74LV393	Dual 4-bit binary ripple counter	1.0 - 3.6	±6	TTL	12	50	90	-40 to 125
74LV4060	14-stage binary ripple counter with oscillator	1.0 - 5.5	±6	TTL	29	50	100	-40 to 125
74LVC161	Presetable synchronous 4-bit binary counter; asynchronous reset	1.2 - 3.6	±24	CMOS/ LVTTTL	4.9	50	200	-40 to 125
74LVC163	Presetable synchronous 4-bit binary counter; synchronous reset	1.2 - 3.6	±24	CMOS/ LVTTTL	4.9	50	200	-40 to 125
HEF4017B	Johnson decade counter with 10 decoded outputs	3.0 - 15	±2.4	CMOS	40	50	30	-40 to 85
HEF4020B	14-stage binary ripple counter	3.0 - 15	±2.4	CMOS	35	50	35	-40 to 85
HEF4040B	12-stage binary ripple counter	3.0 - 15	±2.4	CMOS	35	50	50	-40 to 85
HEF4060B	14-stage binary ripple counter with oscillator	3.0 - 15	±2.4	CMOS	50	50	30	-40 to 85
HEF4518B	Dual BCD counter	3.0 - 15	±2.4	CMOS	40	50	40	-40 to 85
HEF4520B	Dual 4-bit synchronous binary counter	3.0 - 15	±2.4	CMOS	15	50	40	-40 to 85
HEF4521B	24-stage frequency divider and oscillator	3.0 - 15	±2.4	CMOS	220	50	35	-40 to 85
HEF4541B	Programmable timer	3.0 - 15	- 4/ 2.7	CMOS	38	50	150	-40 to 85

Decoders and Demultiplexers

Type number	Description	V _{cc} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	T _{amb} (°C)
74AHC138	3-to-8 line decoder/demultiplexer; inverting	2.0 - 5.5	CMOS	±8	4.4	50	-40 to 125
74AHC139	Dual 2-to-4 line decoder/demultiplexer	2.0 - 5.5	CMOS	±8	3.9	50	-40 to 125
74AHCT138	3-to-8 line decoder/demultiplexer; inverting; TTL-enabled	4.5 - 5.5	TTL	±8	4.4	50	-40 to 125
74AHCT139	Dual 2-to-4 line decoder/demultiplexer; TTL-enabled	4.5 - 5.5	TTL	±8	3.6	50	-40 to 125
74AUP1G18	1-to-2 demultiplexer (3-state)	1.1 - 3.6	CMOS	±1.9	3.2	30	-40 to 125
74AUP1G19	1-to-2 decoder/demultiplexer	1.1 - 3.6	CMOS	±1.9	3.0	30	-40 to 125
74HC137	3-to-8 line decoder/demultiplexer with address latches; inverting	2.0 - 6.0	CMOS	±5.2	18	50	-40 to 125
74HC138	3-to-8 line decoder/demultiplexer; inverting	2.0 - 6.0	CMOS	±5.2	12	50	-40 to 125
74HC139	Dual 2-to-4 line decoder/demultiplexer	2.0 - 6.0	CMOS	±5.2	14	50	-40 to 125
74HC154	4-to-16 line decoder/demultiplexer	2.0 - 6.0	CMOS	±5.2	11	50	-40 to 125
74HC237	3-to-8 decoder/demultiplexer with address latches	2.0 - 6.0	CMOS	±5.2	18	50	-40 to 125
74HC238	3-to-8 decoder/demultiplexer	2.0 - 6.0	CMOS	±5.2	14	50	-40 to 125
74HC42	BCD to decimal decoder (1-of-10)	2.0 - 6.0	CMOS	±5.2	17	50	-40 to 125
74HC4511	BCD to 7-segment latch/decoder/driver with lamp test input	2.0 - 6.0	CMOS	-10	28	50	-40 to 125
74HC4514	4-to-16 decoder/demultiplexer with address latches	2.0 - 6.0	CMOS	±5.2	27	50	-40 to 125
74HCT138	3-to-8 line decoder/demultiplexer; inverting; TTL-enabled	4.5 - 5.5	TTL	±4	19	50	-40 to 125
74HCT139	Dual 2-to-4 line decoder/demultiplexer; TTL-enabled	4.5 - 5.5	TTL	±4	16	50	-40 to 125
74HCT154	4-to-16 line decoder/demultiplexer; TTL-enabled	4.5 - 5.5	TTL	±4	13	50	-40 to 125
74HCT238	3-to-8 decoder/demultiplexer; TTL-enabled	4.5 - 5.5	TTL	±4	18	50	-40 to 125
74HCT4511	BCD to 7-segment latch/decoder/driver with lamp test input; TTL-enabled	4.5 - 5.5	TTL	-10	28	50	-40 to 125
74HCT4514	4-to-16 decoder/demultiplexer with address latches; TTL-enabled	4.5 - 5.5	TTL	±4	30	50	-40 to 125
74LV138	3-to-8 line decoder/demultiplexer; inverting	1.0 - 5.5	TTL	±12	12	50	-40 to 125
74LVC138A	3-to-8 line decoder/demultiplexer; inverting	1.2 - 3.6	CMOS/LVTTL	±24	2.7	50	-40 to 125
74LVC139	Dual 2-to-4 line decoder/demultiplexer	1.2 - 3.6	CMOS/LVTTL	±24	2.5	50	-40 to 125
74LVC1G18	1-to-2 demultiplexer (3-state)	1.65 - 5.5	CMOS/LVTTL	±32	2.3	50	-40 to 125
74LVC1G19	1-to-2 decoder/demultiplexer	1.65 - 5.5	CMOS/LVTTL	±32	1.8	50	-40 to 125
HEF4028B	1-of-10 decoder	3.0 - 15.0	CMOS	±2.4	30	50	-40 to 85
HEF4543B	BCD to 7-segment latch/decoder/driver with phase input	3.0 - 15.0	CMOS	±2.4	55	50	-40 to 85
HEF4555B	Dual 1-to-4 line decoder/demultiplexer	3.0 - 15.0	CMOS	±2.4	30	50	-40 to 85

Digital Multiplexers

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	Output Load C _L (pF)	t _{pd} (ns)	T _{amb} (°C)
74AHC157	Quad 2-input multiplexer	2.0 - 5.5	CMOS	±8	50	3.2	-40 to 125
74AHC257	Quad 2-input multiplexer (3-state)	2.0 - 5.5	CMOS	±8	50	2.9	-40 to 125
74AHCT157	Quad 2-input multiplexer; TTL-enabled	4.5 - 5.5	TTL	±8	50	3.2	-40 to 125
74AHCT257	Quad 2-input multiplexer; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.7	-40 to 125
74AUP1G157	Single 2-input multiplexer	1.1 - 3.6	CMOS	±1.9	30	3.2	-40 to 125
74AUP1G158	Single 2-input multiplexer; inverting	1.1 - 3.6	CMOS	±1.9	30	3.2	-40 to 125
74AUP2G157	Single 2-input multiplexer	1.1 - 3.6	CMOS	±1.9	30	3.4	-40 to 125
74HC151	8-input multiplexer	2.0 - 6.0	CMOS	±5.2	50	17	-40 to 125
74HC153	Dual 4-input multiplexer	2.0 - 6.0	CMOS	±5.2	50	17	-40 to 125
74HC157	Quad 2-input multiplexer	2.0 - 6.0	CMOS	±5.2	50	11	-40 to 125
74HC251	8-input multiplexer (3-state)	2.0 - 6.0	CMOS	±5.2	50	18	-40 to 125
74HC253	Dual 4-input multiplexer (3-state)	2.0 - 6.0	CMOS	±7.8	50	17	-40 to 125
74HC257	Quad 2-input multiplexer (3-state)	2.0 - 6.0	CMOS	±7.8	50	11	-40 to 125
74HCT151	8-input multiplexer; TTL-enabled	4.5 - 5.5	TTL	±4	50	19	-40 to 125
74HCT153	Dual 4-input multiplexer; TTL-enabled	4.5 - 5.5	TTL	±4	50	19	-40 to 125
74HCT157	Quad 2-input multiplexer; TTL-enabled	4.5 - 5.5	TTL	±4	50	13	-40 to 125
74HCT251	8-input multiplexer; TTL-enabled (3-state)	4.5 - 5.5	TTL	±4	50	22	-40 to 125
74HCT253	Dual 4-input multiplexer; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	17	-40 to 125
74HCT257	Quad 2-input multiplexer; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	13	-40 to 125
74LVC157A	Quad 2-input multiplexer	1.2 - 3.6	CMOS/LVTTL	±24	50	2.5	-40 to 125
74LVC1G157	Single 2-input multiplexer	1.65 - 5.5	CMOS/LVTTL	±32	50	2.2	-40 to 125
74LVC257A	Quad 2-input multiplexer (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	2.4	-40 to 125

Speciality Logic

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	F _{max} (MHz)	T _{amb} (°C)
74HC280	9-bit odd/even parity generator/checker	2.0 - 6.0	CMOS	±5.2	17	50		-40 to 125
74HCT280	9-bit odd/even parity generator/checker; TTL-enabled	4.5 - 5.5	TTL	±4	18	50		-40 to 125
74HC688	8-bit magnitude comparator	2.0 - 6.0	CMOS	±5.2	17	50		-40 to 125
74HCT688	8-bit magnitude comparator; TTL-enabled	4.5 - 5.5	TTL	±4	17	50		-40 to 125
74HC85	4-bit magnitude comparator	2.0 - 6.0	CMOS	±5.2	23	50		-40 to 125
74HCT85	4-bit magnitude comparator; TTL-enabled	4.5 - 5.5	TTL	±4	26	50		-40 to 125
74HC4046A	Phase-locked loop with VCO	3.0 - 6.0	CMOS	±5.2	18	50	21	-40 to 125
74HCT4046A	Phase-locked loop with VCO; TTL-enabled	4.5 - 5.5	TTL	±4	23	50	19	-40 to 125
HEF4046B	Phase-locked loop with VCO	3.0 - 15.0	CMOS	±2.4		50	2.7	-40 to 125

Specialty Logic - Mutivibrators

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	T _{amb} (°C)
74AHC123A	Dual retriggerable monostable multivibrator with reset	2.0 - 5.5	CMOS	±8	5.1	50	-40 to 125
74AHCT123A	Dual retriggerable monostable multivibrator with reset; TTL-enabled	4.5 - 5.5	TTL	±8	5.0	50	-40 to 125
74HC123	Dual retriggerable monostable multivibrator with reset	2.0 - 6.0	CMOS	±7.8	9.0	50	-40 to 125
74HCT123	Dual retriggerable monostable multivibrator with reset; TTL-enabled	4.5 - 5.5	TTL	±4	26	50	-40 to 125
74HCT221	dual non-retriggerable monostable multivibrator with reset; TTL-enabled	4.5 - 5.5	TTL	±4	32	50	-40 to 125
74HC423	Dual retriggerable monostable multivibrator with reset	2.0 - 6.0	CMOS	±5.2	23	50	-40 to 125
74HC4538	Dual retriggerable precision monostable multivibrator	2.0 - 6.0	CMOS	±5.2	27	50	-40 to 125
74HCT4538	Dual retriggerable precision monostable multivibrator; TTL-enabled	4.5 - 5.5	TTL	±4	30	50	-40 to 125
74LV123	Dual retriggerable monostable multivibrator with reset	1.0 - 5.5	TTL	±12	20	50	-40 to 125
74LVC1G123	Single retriggerable monostable multivibrator	1.65 - 5.5	CMOS/LVTTL	±32	3.5	50	-40 to 125
HEF4047B	Monostable/astable multivibrator	3.0 - 15	CMOS	±2.4	50	50	-40 to 85
HEF4528B	Dual retriggerable monostable multivibrator with reset	3.0 - 15	CMOS	±2.4	40	50	-40 to 85
HEF4538B	Dual retriggerable precision monostable multivibrator	3.0 - 15	CMOS	±2.4	60	50	-40 to 85

Voltage translators (level-shifters)

Fixed direction

Type number	Description	V _{CC(A)} (V)	V _{CC(B)} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	Number of bits	T _{amb} (°C)
74AUP1T00	Single supply 2-input voltage-translating NAND gate	2.3 - 3.6	n.a.	CMOS	±4	3.7	15	1	-40 to 125
74AUP1T02	Single supply 2-input voltage-translating NOR gate	2.3 - 3.6	n.a.	CMOS	±4	3.6	15	1	-40 to 125
74AUP1T04	Single supply voltage-translating inverter	2.3 - 3.6	n.a.	CMOS	±4	3.6	15	1	-40 to 125
74AUP1T08	Single supply 2-input voltage-translating AND gate	2.3 - 3.6	n.a.	CMOS	±4	3.6	15	1	-40 to 125
74AUP1T14	Single supply voltage-translating inverter	2.3 - 3.6	n.a.	CMOS	±4	3.6	15	1	-40 to 125
74AUP1T17	Single supply voltage-translating buffer	2.3 - 3.6	n.a.	CMOS	±4	3.6	15	1	-40 to 125
74AUP1T32	Single supply 2-input voltage-translating OR gate	2.3 - 3.6	n.a.	CMOS	±4	3.6	15	1	-40 to 125
74AUP1T34	Single dual-supply translating buffer	1.1 - 3.6	1.1 - 3.6	CMOS	±4	3.9	15	1	-40 to 125
74AUP1T50	Single supply voltage-translating buffer	2.3 - 3.6	n.a.	CMOS	±4	8.7	15	1	-40 to 125
74AUP1T57	Configurable gate with voltage-level translation	2.3 - 3.6	n.a.	CMOS	±4	3.8	15	1	-40 to 125
74AUP1T58	Configurable gate with voltage-level translation	2.3 - 3.6	n.a.	CMOS	±4	3.8	15	1	-40 to 125
74AUP1T86	Single supply 2-input voltage-translating XOR gate	2.3 - 3.6	n.a.	CMOS	±4	8.7	15	1	-40 to 125
74AUP1T87	Single supply 2-input voltage-translating XNOR gate	2.3 - 3.6	n.a.	CMOS	±4	8.7	15	1	-40 to 125
74AUP1T97	Configurable gate with voltage-level translation	2.3 - 3.6	n.a.	CMOS	±4	3.8	15	1	-40 to 125
74AUP1T98	Configurable gate with voltage-level translation	2.3 - 3.6	n.a.	CMOS	±4	3.8	15	1	-40 to 125
74AVC1T1004	1-to-4 fan-out buffer	0.8 - 3.6	n.a.	CMOS/ LVTTTL	±12	4.9	15	1	-40 to 125
74AVC1T8128	Single dual-supply translating 2-input NOR with enable	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.4	15	1	-40 to 125
74AVC1T8832	Single dual-supply translating 2-input OR with strobe	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.4	15	1	-40 to 125
74AVC1T1004	1-to-4 fan out buffer	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	4.9	15	1	-40 to 125
74AVC1T1022	1-to-4 fan out buffer	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	4.0	30	1	-40 to 125
74AVC4T3144	4-bit dual-supply voltage-translating buffer (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	4.6	15	4	-40 to 125
74HC4049	Hex inverter with 15 V-tolerant inputs	2.0 - 6.0	n.a.	CMOS	±5.2	8.0	50	6	-40 to 125
74HC4050	Hex buffer with 15 V-tolerant inputs	2.0 - 6.0	n.a.	CMOS	±5.2	7.0	50	6	-40 to 125
74LV1T00	2-input single supply translating NAND gate	1.6 - 5.5	n.a.	CMOS	±8	6.4	15	1	-40 to 125
74LV1T02	2-input single supply translating NOR gate	1.6 - 5.5	n.a.	CMOS	±8	6.6	15	1	-40 to 125
74LV1T04	Single supply translating inverter	1.6 - 5.5	n.a.	CMOS	±8	6.2	15	1	-40 to 125
74LV1T08	2-input single supply translating AND gate	1.6 - 5.5	n.a.	CMOS	±8	6.5	15	1	-40 to 125
74LV1T32	2-input single supply translating OR gate	1.6 - 5.5	n.a.	CMOS	±8	6.6	15	1	-40 to 125
74LV1T34	Single supply translating buffer	1.6 - 5.5	n.a.	CMOS	±8	6.3	15	1	-40 to 125
74LV1T86	2-input single supply translating X-OR gate	1.6 - 5.5	n.a.	CMOS	±8	7.3	15	1	-40 to 125
74LV1T87	2-input single supply translating X-NOR gate	1.6 - 5.5	n.a.	CMOS	±8	7.3	15	1	-40 to 125
74LV1T125	Single supply translating buffer (3-state)	1.6 - 5.5	n.a.	CMOS	±8	6.5	15	1	-40 to 125
74LV1T126	Single supply translating buffer (3-state)	1.6 - 5.5	n.a.	CMOS	±8	6.5	15	1	-40 to 125
74LVC4T3144	4-bit dual supply translating buffer; 3-state	1.2 - 5.5	1.2 - 5.5	CMOS	±8	6.6	15	4	-40 to 125
74LVC8T595	Dual supply 8-bit serial-in/serial-out or parallel-out shift register (3-state)	1.1 - 5.5	1.1 - 5.5	CMOS/ LVTTTL	±24	4.1	15	8	-40 to 125
HEF4104B	Quad low-to-high voltage translator (3-state)	3.0 - 15	3.0 - 15	CMOS	±2.4	170	50	16	-40 to 85

Direction control

Type number	Description	V _{CC(A)} (V)	V _{CC(B)} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	Number of bits	T _{amb} (°C)
74ALVC164245	16-bit dual-supply voltage-translating transceiver (3-state)	1.5 - 5.5	1.5 - 3.6	CMOS/ LVTTTL	±24	2.9	50	16	-40 to 85
74AUP1T45	Single dual-supply voltage-translating transceiver (3-state)	1.1 - 3.6	1.1 - 3.6	CMOS	±4	4.5	15	1	-40 to 125
74AVC1T45	Single dual-supply voltage-translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	30	1	-40 to 125
74AVC2T245	Dual-bit dual-supply voltage-translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	30	2	-40 to 125
74AVC2T45	Dual-bit dual-supply voltage-translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	30	2	-40 to 125
74AVC4T245	4-bit dual-supply voltage-translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	30	4	-40 to 125
74AVC4T774	4-bit dual-supply voltage-translating bus transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	15	4	-40 to 125
74AVC4TD245	4-bit dual-supply voltage-translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	30	4	-40 to 125
74AVC8T245	8-bit dual-supply voltage-translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	30	8	-40 to 125
74AVC16T245	16-bit dual-supply voltage-translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	30	16	-40 to 125
74AVC20T245	20-bit dual-supply voltage-translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	3.5	30	20	-40 to 125
74AVCH1T45	Single dual-supply voltage-translating transceiver with bus hold (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	30	1	-40 to 125
74AVCH2T45	Dual-bit dual-supply voltage-translating transceiver with bus hold (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	30	2	-40 to 125
74AVCH4T245	4-bit dual-supply voltage-translating transceiver with bus hold (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	30	4	-40 to 125
74AVCH8T245	8-bit dual-supply voltage-translating transceiver with bus hold (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	15	8	-40 to 125
74AVCH16T245	16-bit dual-supply voltage-translating transceiver with bus hold (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	30	16	-40 to 125
74AVCH20T245	20-bit dual-supply voltage-translating transceiver with bus hold (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	3.5	30	20	-40 to 125
74AXP1T45	1-bit dual supply translating transceiver; 3-state	0.9 - 5.5	0.9 - 5.5	CMOS	±12	9.0	5	1	-40 to 125
74AXP2T45	2-bit dual supply translating transceiver; 3-state	0.9 - 5.5	0.9 - 5.5	CMOS	±12	9.0	5	2	-40 to 125
74AXP4T245	4-bit dual supply translating transceiver; 3-state	0.9 - 5.5	0.9 - 5.5	CMOS	±12	9.0	5	4	-40 to 125
74AXP8T245	8-bit dual supply translating transceiver; 3-state	0.9 - 5.5	0.9 - 5.5	CMOS	±12	9.0	5	8	-40 to 125
74LVC1T45	Single dual-supply voltage-translating transceiver (3-state)	1.2 - 5.5	1.2 - 5.5	CMOS/ LVTTTL	±24	2.5	50	1	-40 to 125
74LVC2T45	Dual-bit dual-supply voltage-translating transceiver (3-state)	1.2 - 5.5	1.2 - 5.5	CMOS/ LVTTTL	±24	2.5	50	2	-40 to 125
74LVC4245A	8-bit dual-supply voltage-translating transceiver (3-state)	1.5 - 5.5	1.5 - 3.6	CMOS/ LVTTTL	±24	4.0	50	8	-40 to 125
74LVC8T245	8-bit dual-supply voltage-translating transceiver (3-state)	1.2 - 5.5	1.2 - 5.5	CMOS/ LVTTTL	±24	3.5	50	8	-40 to 125
74LVCH1T45	Single dual-supply voltage-translating transceiver with bus hold (3-state)	1.2 - 5.5	1.2 - 5.5	CMOS/ LVTTTL	±24	2.5	50	1	-40 to 125
74LVCH2T45	Dual-bit dual-supply voltage-translating transceiver with bus hold (3-state)	1.2 - 5.5	1.2 - 5.5	CMOS/ LVTTTL	±24	2.5	50	2	-40 to 125
74LVCH8T245	8-bit dual-supply voltage-translating transceiver with bus hold (3-state)	1.2 - 5.5	1.2 - 5.5	CMOS/ LVTTTL	±24	3.5	50	8	-40 to 125

Voltage translators (level-shifters)

Auto direction (Autosense)

Type number	Description	V _{CC(A)} (V)	V _{CC(B)} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	Number of bits	T _{amb} (°C)
LSF0101	1-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	CMOS	+64	0.7	30	1	-40 to 125
LSF0102	2-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	CMOS	+64	0.7	30	2	-40 to 125
LSF0204	4-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	CMOS	+64	0.6	30	4	-40 to 125
LSF0108	8-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	CMOS	+64	1.4	30	8	-40 to 125
NCA9306	2-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	CMOS	+64	0.4	30	2	-40 to 125
NXB0101	1-bit Dual supply translating transceiver; auto direction sensing (3-state)	1.2 - 3.6	1.65 - 5.5	CMOS	± 0.02	5.5	15	1	-40 to 125
NXB0102	2-bit Dual supply translating transceiver; auto direction sensing (3-state)	1.2 - 3.6	1.65 - 5.5	CMOS	± 0.02	5.5	15	2	-40 to 125
NXB0104	4-bit Dual supply translating transceiver; auto direction sensing (3-state)	1.2 - 3.6	1.65 - 5.5	CMOS	± 0.02	5.5	15	4	-40 to 125
NXB0106	6-bit Dual supply translating transceiver; auto direction sensing (3-state)	1.2 - 3.6	1.65 - 5.5	CMOS	± 0.02	5.5	15	6	-40 to 125
NXB0108	8-bit Dual supply translating transceiver; auto direction sensing (3-state)	1.2 - 3.6	1.65 - 5.5	CMOS	± 0.02	5.5	15	8	-40 to 125
NXS0101	1-bit Dual supply translating transceiver; open drain; auto direction sensing	1.65 - 3.6	2.3 - 5.5	CMOS	- 0.02 / 1.0	4.7	15	1	-40 to 125
NXS0102	2-bit Dual supply translating transceiver; open drain; auto direction sensing	1.65 - 3.6	2.3 - 5.5	CMOS	- 0.02 / 1.0	5.2	15	2	-40 to 125
NXS0104	4-bit Dual supply translating transceiver; open drain; auto direction sensing	1.65 - 3.6	2.3 - 5.5	CMOS	- 0.02 / 1.0	6	15	4	-40 to 125
NXS0108	8-bit Dual supply translating transceiver; open drain; auto direction sensing	1.65 - 3.6	2.3 - 5.5	CMOS	- 0.02 / 1.0	6.3	15	8	-40 to 125

Application Specific

Type number	Description	V _{CC(A)} (V)	V _{CC(B)} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	Number of bits	T _{amb} (°C)
NXS0506	SD 3.0-compatible memory card integrated auto-direction control and level translator with EMI filter and ESD protection	1.1 - 1.95	1.7 - 3.6	CMOS	± 2	2.6	15	6	-40 to 125
NXT4556	SIM card interface level translator without enable pin	1.08 - 1.98	1.62 - 3.3	CMOS	± 1	20	50	3	-40 to 125
NXT4557	SIM card interface level translator with enable pin	1.08 - 1.98	1.62 - 3.3	CMOS	± 1	20	50	3	-40 to 125

Analog Switches

Type number	Description	V _{CC} (V)	Logic switching levels	R _{ON} (Ω)	R _{ON(FLAT)} (Ω)	f _(-3dB) (MHz)	T _{HD} (%)	X _{talk} (dB)	T _{amb} (°C)
74AHC1G66	Single-pole, single-throw analog switch	2.0 - 5.5	CMOS	40	14	280	0.015		-40 to 125
74AHCT1G66	Single-pole, single-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	40	14	280	0.015		-40 to 125
74HC1G66	Single-pole, single-throw analog switch	2.0 - 9.0	CMOS	105	23	200	0.02		-40 to 125
74HC2G66	Dual single-pole, single-throw analog switch	2.0 - 9.0	CMOS	105	23	200	0.02	-60	-40 to 125
74HC4051	Single-pole, octal-throw analog switch	2.0 - 10	CMOS	200	20	180	0.02		-40 to 125
74HC4052	Dual single-pole, quad-throw analog switch	2.0 - 10	CMOS	200	20	180	0.02	-60	-40 to 125
74HC4053	Triple single-pole, double-throw analog switch	2.0 - 10	CMOS	200	20	170	0.02		-40 to 125
74HC4066	Quad single-pole, single-throw analog switch	2.0 - 10	CMOS	105	23	200	0.02	-60	-40 to 125
74HC4067	Single-pole, 16-throw analog switch	2.0 - 10	CMOS	200	25	100	0.02		-40 to 125
74HC4316	Quad single-pole, single-throw analog switch with translation	2.0 - 10	CMOS	300	80	160	0.4	-60	-40 to 125
74HC4351	Single-pole, octal-throw analog switch with latch	2.0 - 10	CMOS	200	20	180	0.02		-40 to 125
74HC4851	Single-pole, octal-throw analog switch	2.0 - 10	CMOS	220					-40 to 125
74HC4852	Dual single-pole, quad-throw analog switch; TTL-enabled	2.0 - 10	CMOS	220					-40 to 125
74HCT1G66	Single-pole, single-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	118	23	180	0.04		-40 to 125
74HCT2G66	Dual single-pole, single-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	118	23	180	0.04	-60	-40 to 125
74HCT4051	Single-pole, octal-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	225	20	170	0.04		-40 to 125
74HCT4052	Dual single-pole, quad-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	225	20	170	0.04	-60	-40 to 125
74HCT4053	Triple single-pole, double-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	225	20	160	0.04		-40 to 125
74HCT4066	Quad single-pole, single-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	118	23	180	0.04	-60	-40 to 125
74HCT4067	Single-pole, 16-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	225	25	90	0.04		-40 to 125
74HCT4316	Quad single-pole, single-throw analog switch with translation; TTL-enabled	4.5 - 5.5	TTL	400	50	150	0.8	-60	-40 to 125
74HCT4351	Single-pole, octal-throw analog switch with latch; TTL-enabled	4.5 - 5.5	TTL	225	20	170	0.04		-40 to 125
74HCT4851	Single-pole, octal-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	240					-40 to 125
74HCT4852	Dual single-pole, quad-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	240					-40 to 125
74LV4051	Single-pole, octal-throw analog switch	1.0 - 6.0	TTL	135	35	200	0.4	-60	-40 to 125
74LV4052	Dual single-pole, quad-throw analog switch	1.0 - 6.0	TTL	125	15	180	0.4	-60	-40 to 125
74LV4053	Triple single-pole, double-throw analog switch	1.0 - 6.0	TTL	150	30	180	0.4	-60	-40 to 125
74LV4066	Quad single-pole, single-throw analog switch	1.0 - 6.0	TTL	50	3.0	180	0.02	-60	-40 to 125
74LVC1G3157	Single-pole, double-throw analog switch	1.65 - 5.5	CMOS/LVTTL	15	1.5	300	0.078		-40 to 125
74LVC1G384	Single-pole, single-throw analog switch	1.65 - 5.5	CMOS/LVTTL	15	1.5	440	0.001		-40 to 125
74LVC1G53	Single-pole, double-throw analog switch	1.65 - 5.5	CMOS/LVTTL	15	1.5	300	0.078		-40 to 125
74LVC1G66	Single-pole, single-throw analog switch	1.65 - 5.5	CMOS/LVTTL	15	1.5	440	0.001		-40 to 125
74LVC2G3157	Dual single-pole, double-throw analog switch	1.65 - 5.5	CMOS/LVTTL	15	1.5	300	0.078	-54	-40 to 125
74LVC2G53	Single-pole, double-throw analog switch	1.65 - 5.5	CMOS/LVTTL	15	1.5	300	0.078		-40 to 125
74LVC2G66	Dual single-pole, single-throw analog switch	1.65 - 5.5	CMOS/LVTTL	15	1.5	440	0.005	-56	-40 to 125
74LVC4066	Quad single-pole, single-throw analog switch	1.65 - 5.5	CMOS/LVTTL	15	1.5	440	0.005	-58	-40 to 125
74LVCV2G66	Dual single-pole, single-throw analog switch; overvoltage tolerant	2.3 - 5.5	CMOS/LVTTL	15	3.0	210	0.01	-55	-40 to 125
HEF4016B	Quad single-pole, single-throw analog switch	3.0 - 15	CMOS	350	65	90	0.04	-50	-40 to 85
HEF4051B	Single-pole, octal-throw analog switch	3.0 - 15	CMOS	175	30	70	0.04	-50	-40 to 85
HEF4052B	Dual single-pole, quad-throw analog switch	3.0 - 15	CMOS	175	30	70	0.04	-50	-40 to 85
HEF4053B	Triple single-pole, double-throw analog switch	3.0 - 15	CMOS	175	30	70	0.04	-50	-40 to 85
HEF4066B	Quad single-pole, single-throw analog switch	3.0 - 15	CMOS	175	20	90	0.04	-50	-40 to 85
HEF4067B	Single-pole, 16-throw analog switch	3.0 - 15	CMOS	175	20	13	0.04	-50	-40 to 85
XS3A1T5157	Low-ohmic single-pole double-throw analog switch	1.4 - 4.3	CMOS	0.5	0.2	40	0.03	-90	-40 to 125
XS3A1T3157	Low-ohmic single-pole double-throw analog switch	1.4 - 4.3	CMOS	0.5	0.2	40	0.03	-90	-40 to 125
XS3A2467	Dual Low-ohmic dual-pole dual-throw Analog Switch	1.4 - 4.4	CMOS/LVTTL	0.5	0.2	40	0.04	-90	-40 to 125
XS3A4051	Low-ohmic single-pole octal-throw Analog Switch	1.4 - 4.5	CMOS/LVTTL	0.5	0.2	15	0.04	-90	-40 to 125
XS3A4052	Low-ohmic dual-pole quad-throw Analog Switch	1.4 - 4.6	CMOS/LVTTL	0.5	0.13	25	0.04	-90	-40 to 125
XS3A4053	Triple Low-ohmic single-pole dual-throw Analog Switch	1.4 - 4.7	CMOS/LVTTL	0.5	0.13	40	0.04	-90	-40 to 125
XSSA1T4157	Single-pole double-throw analog switch	4.5 - 5.5	CMOS	4	0.9	190	-	-76	-40 to 125

Bus Switches

Type number	Description	V _{CC} (V)	V _{PASS} (V)	Logic switching levels	R _{ON} (Ω)	f _(-3dB) (MHz)	Number of bits	t _{pd} (ns)	T _{amb} (°C)
74CBTLV1G125	Single bus switch	2.3 - 3.6	3.3	CMOS/LVTTL	7	400	1	0.2	-40 to 125
74CBTLV3125	Quad bus switch	2.3 - 3.6	3.3	CMOS/LVTTL	7	400	4	0.2	-40 to 125
74CBTLV3126	Quad bus switch	2.3 - 3.6	3.3	CMOS/LVTTL	7	400	4	0.2	-40 to 125
74CBTLV3244	Octal bus switch	2.3 - 3.6	3.3	CMOS/LVTTL	7	400	8	0.2	-40 to 125
74CBTLV3245	Octal bus switch	2.3 - 3.6	3.3	CMOS/LVTTL	7	400	8	0.2	-40 to 125
74CBTLV3306	2-bit bus switch	2.3 - 3.6	5.0	CMOS/LVTTL	7	400	2	0.2	-40 to 125
74CBTLV3384	10-bit bus switch	2.3 - 3.6	3.3	CMOS/LVTTL	7	400	10	0.2	-40 to 125
74CBTLV3861	10-bit bus switch	2.3 - 3.6	3.3	CMOS/LVTTL	7	400	10	0.2	-40 to 125
74CBTLVD3244	Octal bus switch level translator	3.0 - 3.6	1.8	CMOS/LVTTL	7	400	8	0.2	-40 to 125
74CBTLVD3245	Octal bus switch level translator	3.0 - 3.6	1.8	CMOS/LVTTL	7	400	8	0.2	-40 to 125
74CBTLVD3384	10-bit bus switch level translator	3.0 - 3.6	1.8	CMOS/LVTTL	7	400	10	0.2	-40 to 125
74CBTLVD3861	10-bit bus switch level translator	3.0 - 3.6	1.8	CMOS/LVTTL	7	400	10	0.2	-40 to 125
CBT3306	Dual bus switch	4.5 - 5.5	3.9	TTL	7	300	2	0.25	-40 to 85
CBT3384	10-bit bus switch	4.5 - 5.5	3.9	TTL	7	300	10	0.25	-40 to 85
CBTD3384	10-bit bus switch	4.5 - 5.5	3.9	TTL	7	300	10	0.25	-40 to 85
CBTD3306	Dual bus switch level translator	4.5 - 5.5	3.3	TTL	7	300	2	0.25	-40 to 85
CBTD3384	10-bit bus switch level translator	4.5 - 5.5	3.3	TTL	7	300	10	0.25	-40 to 85

Multiplexer / Demultiplexer

Type number	Description	V _{CC} (V)	V _{PASS} (V)	Logic switching levels	R _{ON} (Ω)	f _(-3dB) (MHz)	Number of bits	t _{pd} (ns)	T _{amb} (°C)
74CB3Q3253	Dual 1-of-4 FET multiplexer/demultiplexer with charge pump	2.3 - 3.6	VCC	CMOS/LVTTL	4	500	2	0.2	-40 to 85
74CB3Q3257	Quad 1-of-2 FET multiplexer/demultiplexer with charge pump	2.3 - 3.6	VCC	CMOS/LVTTL	4	500	4	0.2	-40 to 85
74CBTLV3253	Dual 4:1 mux/demux	2.3 - 3.6	3.3	CMOS/LVTTL	7	400	2	0.2	-40 to 125
74CBTLV3257	Quad 2:1 mux/demux	2.3 - 3.6	3.3	CMOS/LVTTL	7	400	4	0.2	-40 to 125
CBT3251	8:1 mux/demux	4.5 - 5.5	3.9	TTL	7	300	8	0.25	-40 to 85
CBT3253	Dual 4:1 mux/demux	4.5 - 5.5	3.9	TTL	7	300	2	0.25	-40 to 85
CBT3253A	Dual 4:1 mux/demux	4.5 - 5.5	3.9	TTL	7	300	2	0.25	-40 to 85
CBT3257A	Quad 2:1 mux/demux	4.5 - 5.5	3.9	TTL	7	300	4	0.25	-40 to 85

I²C General Purpose I/O (GPIO)

Type number	Description	V _{cc(A)} (V)	V _{cc(B)} (V)	Logic switching levels	Power dissipation considerations	Output drive capability (mA)	Number of bits	T _{amb} (°C)
NCA9535	Low-voltage 16-Bit I ² C and SMBus low-power I/O expander with interrupt output and configuration registers	1.65 - 5.5	n.a.	CMOS	low	- 10 / 25	16	-40 to 85
NCA9539	Low-voltage 16-Bit I ² C and SMBus low-power I/O expander with interrupt output, reset pin and configuration registers	1.65 - 5.5	n.a.	CMOS	low	- 10 / 25	16	-40 to 85
NCA9555	Low-voltage 16-bit I ² C and SMBus I/O expander with interrupt output and configuration registers	1.65 - 5.5	n.a.	CMOS	low	- 10 / 25	16	-40 to 85
NCA9595	Low voltage 16-Bit I ² C and SMBus I/O expander with interrupt output, configuration registers and programmable pull-up resistors	1.65 - 5.5	n.a.	CMOS	low	- 10 / 25	16	-40 to 85
PCA9535	Low-voltage 16-bit I ² C and SMBus low-power I/O expander with interrupt output and configuration registers	2.3 - 5.5	n.a.	CMOS	low	- 10 / 25	16	-40 to 85
PCA9539	Low-voltage 16-bit I ² C and SMBus low-power I/O expander with interrupt output, reset pin and configuration registers	2.3 - 5.5	n.a.	CMOS	low	- 10 / 25	16	-40 to 85
PCA9555	Low-voltage 16-bit I ² C and SMBus I/O expander with interrupt output and configuration registers	2.3 - 5.5	n.a.	CMOS	low	- 10 / 25	16	-40 to 85

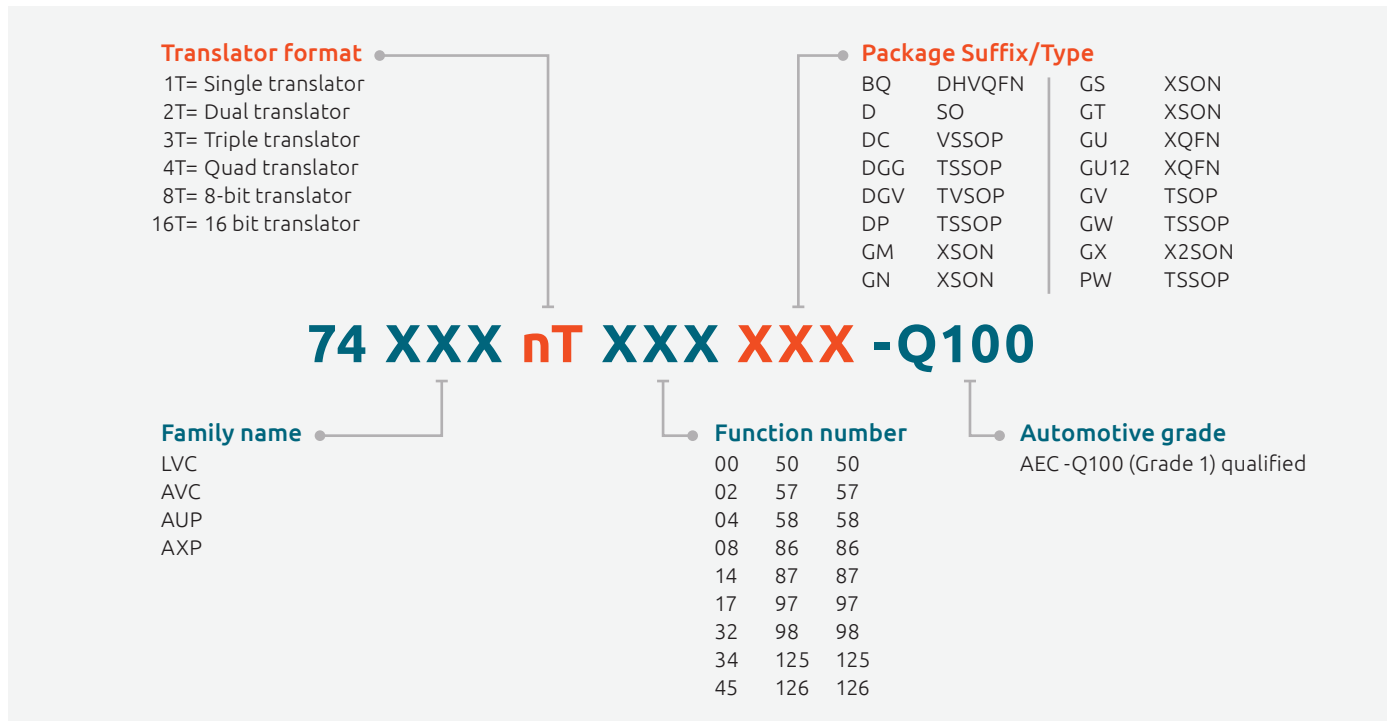
Battery Management IC's - Battery Booster

Type number	Description	Features								Package (suffix)
		V _{VBT} (V)	I _{O ACT} mode (mA)	I _{CH} (mA)	I _{O standby} mode (nA)	Include interface	Capacitor Balance pin	Auto Start mode	T _{amb} (°C)	SOT763-1 (BQ)
NBM5100A	Lithium primary battery life booster with adaptive power optimization	2.4 - 3.6	150	2 / 16	50	I ² C	Y	Y	-40~85	•
NBM5100B	Lithium primary battery life booster with adaptive power optimization	2.4 - 3.6	150	2 / 16	50	SPI	Y	N	-40~85	•
NBM7100A	Lithium primary battery life booster with adaptive power optimization	2.4 - 3.6	200	2 / 16	50	I ² C	N	Y	-40~85	•
NBM7100B	Lithium primary battery life booster with adaptive power optimization	2.4 - 3.6	200	2 / 16	50	SPI	N	N	-40~85	•

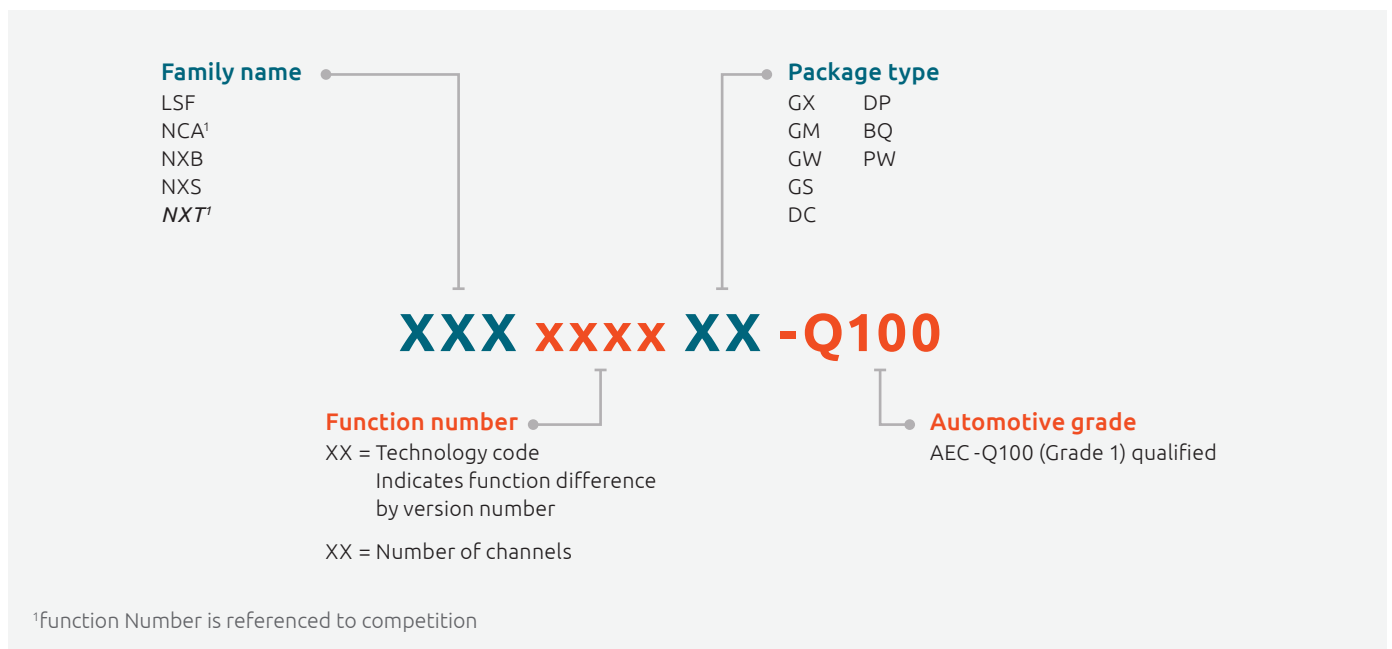
Power Management IC's - Energy Harvesting

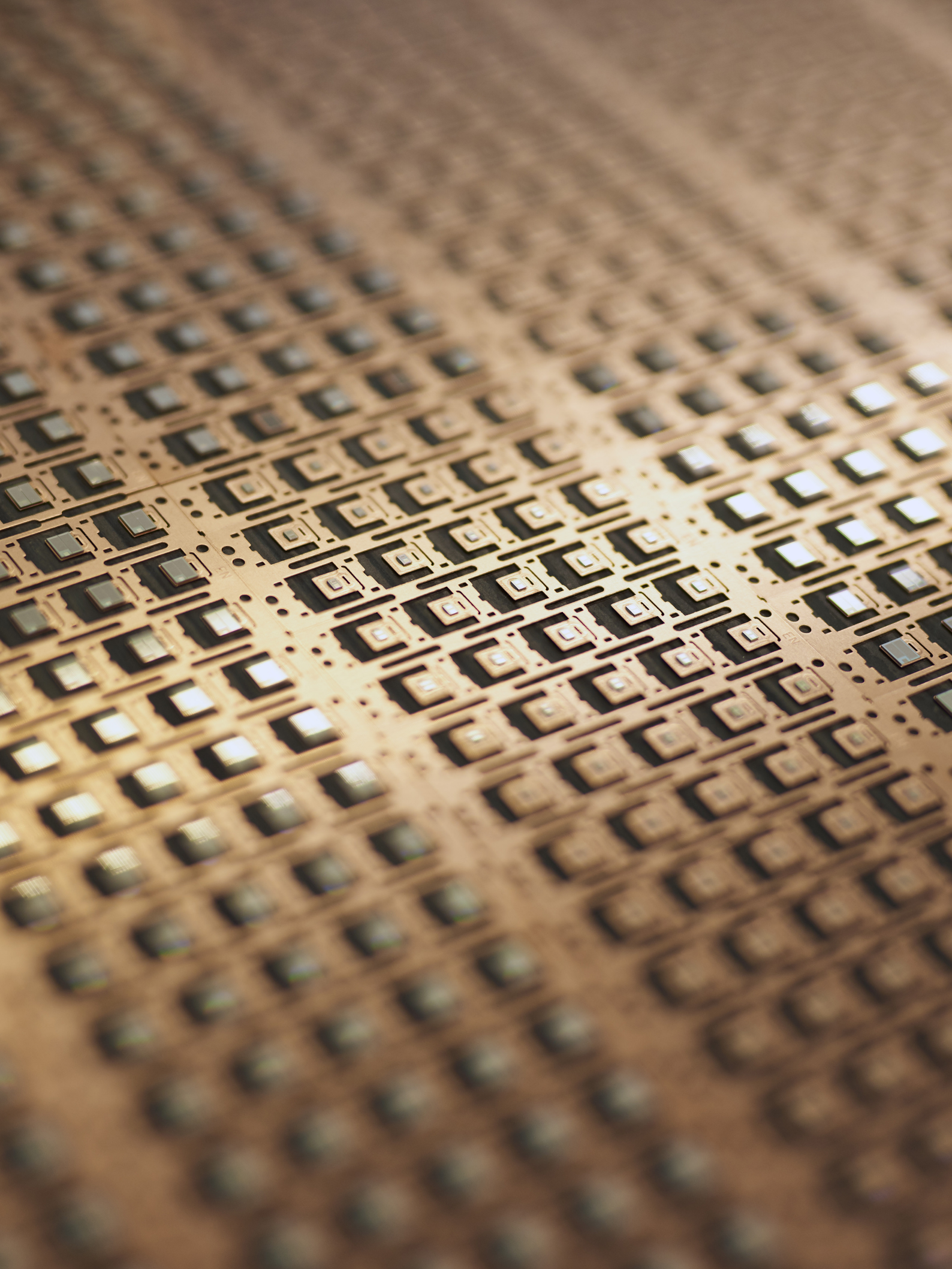
Type number	Description	Features							Package (suffix)
		V _{BAT(min)} (V)	V _{IN} (V)	I _{STBY(min)} / I _{STBY (max)} (nA)	P _{IN(min)} / P _{IN(max)} (mW)	f _{CONV(min)} / f _{CONV(max)} (MHz)	t _{MPPT} (s)	T _{amb} (°C)	SOT8076-1 (BY)
NEH2000	Energy harvesting PMIC	2.5	1.65	400 / 1150	0.035 / 2	0.05 / 1.8	0.7	-40~85	•

Translator IC's nomenclature



Translator IC's nomenclature





































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Package details and packing methods SMD

Pins/Terminals	Package	Package body size (l x w x h) (mm)	Package dimensions inc. leads (l x w) (mm)	Package area (mm ²)	Lead pitch (mm)	Package	800	1000	1500	2000	2500	3000	4000	4500	5000	8000	9000	10000	15000	20000	30000	50000	
2	DFN0603-2 (SOD972E)	0.33 x 0.63 x 0.25	0.33 x 0.63	0.21	0.4														317				
	DSN0402B-2 (SOD992B)	0.43 x 0.23 x 0.12	0.43 x 0.23	0.099	0.3														315				
	DSN0603-2 (SOD962-2)	0.6 x 0.3 x 0.3	0.6 x 0.3	0.18	0.4														315				
	DSN0603-2 (SOD962)	0.6 x 0.3 x 0.3	0.6 x 0.3	0.18	0.4														315				
	SC-79 (SOD523)	1.2 x 0.8 x 0.6	1.6 x 0.8	1.28	1.4							115				315			135	335			
	CFP2-HP (SOD323HP)	1.3 x 2.2 x 0.68	2.65 x 1.3	3.45	1.6									115									
	DSN1608-2 (SOD964)	1.6 x 0.8 x 0.29	1.6 x 0.8	1.28	0.6														315				
	DFN1608D-2 (SOD1608)	1.6 x 0.8 x 0.37	1.6 x 0.8	1.28	0.9											315							
	DFN1610-2 (SOD1610-1)	1.6 x 1 x 0.55	1.6 x 1	1.6	1.1							515											
	SC-90 (SOD323F)	1.7 x 1.25 x 0.7	2.5 x 1.25	3.125	2.2								115						135				301
	SOD323	1.7 x 1.25 x 0.95	2.5 x 1.25	0.3125	1.3								115						135		145		
	DSN1006-2 (SOD993)	1 x 0.6 x 0.27	1 x 0.6	0.6	0.6														315				
	DSN1006-2 (SOD993B)	1 x 0.6 x 0.27	1 x 0.6	0.6	0.6														315				
	DSN1006U-2 (SOD995)	1 x 0.6 x 0.27	1 x 0.6	0.6	0.3														315				
	DFN1006D-2 (SOD882D)	1 x 0.6 x 0.4	1 x 0.6	0.6	0.6														315				
	DFN1006-2 (SOD882-S1)	1 x 0.6 x 0.4	1 x 0.6	0.6	0.6														515				
	DFN1006BD-2 (SOD882BD)	1 x 0.6 x 0.47	1 x 0.6	0.6	0.6														315				
	DFN1006 (SOD882-2)	1 x 0.6 x 0.47	1 x 0.6	0.6	0.6														315				
	DFN1006-2 (SOD882)	1 x 0.6 x 0.48	1.0 x 0.6	0.6	0.6														303				
																			315				
	SOD123	2.675 x 1.6 x 1.15	3.6 x 1.6	5.76	3.3							115							118				
	SOD123F	2.6 x 1.6 x 1.1	3.5 x 1.6	5.6	2.8							115											
	CFP3 (SOD123W)	2.6 x 1.7 x 1	3.5 x 1.7	5.95	2.8							115											
	LLDS; MiniMelf (SOD80C)	3.5 x 1.5	3.5 x 1.53	5.36							115								135				
	CFP5 (SOD128)	3.8 x 2.5 x 1	4.7 x 2.6	12.22	4							115											
	DPAK R2P (SOT8017)	6.16 x 6.54 x 2.29	9.98 x 6.54	65.27	4.6						118												
D2PAK R2P (SOT8018)	8.8 x 10.35 x 4.46	15.18 x 10.35	157.11	5.1		118																	
3	DFN0606-3 (SOT8001)	0.62 x 0.62 x 0.37	0.62 x 0.62	0.384	0.3													125					
	DFN0603-3 (SOT8013)	0.63 x 0.33 x 0.25	0.63 x 0.33	0.208	0.2													317					
	DSN1010-3 (SOT8007)	0.96 x 0.96 x 0.24	0.96 x 0.96	0.922	0.5										315								
	D2PAK (SOT404)	11 x 10 x 4.3	15.3 x 10	153	2.5		118																
	D2PAK (SOT404A)	11 x 10 x 4.3	15.3 x 10	153	2.5		118																
	DFN1010D-3 (SOT1215)	1.1 x 1 x 0.37	1.1 x 1	1.1	0.8										147								
	DFN1110D-3 (SOT8015)	1.1 x 1 x 0.48	1.1 x 1	1.1	0.6										147								
	DFN1412D-3 (SOT8009)	1.4 x 1.2 x 0.48	1.4 x 1.2	1.68	0.8										147								































Package details and packing methods SMD

Pins/Terminals	Package	Package body size (l x w x h) (mm)	Package dimensions inc. leads (l x w x h) (mm)	Package area (mm ²)	Lead pitch (mm)	Package	800	1000	1500	2000	2500	3000	4000	4500	5000	8000	9000	10000	15000	20000	30000	50000	
3	SOT663	1.6 x 1.2 x 0.55	1.6 x 1.6	2.56	1								115										
	DSN1006-3 (SOT8026)	1 x 0.6 x 0.2	1 x 0.6	0.6	0.3													326					
	DFN1006B-3 (SOT883B)	1 x 0.6 x 0.37	1 x 0.6	0.6	0.3													315					
	DFN1006-3 (SOT883-3)	1 x 0.6 x 0.46	1 x 0.6	0.6	0.3													305					
	DFN1006-3 (SOT883-2)	1 x 0.6 x 0.47	1 x 0.6	0.6	0.3													315					
	DFN1006-3 (SOT883)	1 x 0.6 x 0.48	1 x 0.6	0.6	0.3													305					
	SOT23	2.9 x 1.3 x 1	2.9 x 2.3	6.67	1.9							215						235			185	300	
	SC-70 (SOT323)	2 x 1.25 x 0.95	2 x 2.1	4.2	1.3							115						135					300
	HUSON3 (SOT1061-3)	2 x 2 x 0.55	2 x 2	4	1.3							328											
	DFN2020-3 (SOT1061)	2 x 2 x 0.65	2 x 2	4	1.3							115						135					
	DFN2020D-3 (SOT1061D)	2 x 2 x 0.65	2 x 2	4	1.3							147											
	FCLGA3 (SOT8073-1)	3.2 x 2.2 x 0.774	3.2 x 2.2	7.04	1.2						328												
	SOT89	4.5 x 2.5 x 1.5	4.5 x 4	18	1.5			115						135									
	CFP15 (SOT1289)	5.8 x 4.3 x 0.78	6.5 x 4.3	27.95	2.1				146							139							
	CFP15B (SOT1289B)	5.8 x 4.3 x 0.95	6.8 x 4.3	29.24	2.1											139							
	DPAK (SOT428C)	6.1 x 6.6 x 2.3	10 x 6.6	66	2.3						118												
DPAK (SOT428)	6 x 6.6 x 2.3	10 x 6.6	66	2.3						118													
4	X2SON4 (SOT1269-2)	0.6 x 0.6 x 0.32	0.6 x 0.6	0.36	0.4													147					
	SOT143B	2.9 x 1.3 x 1	2.9 x 2.3	6.67	1.9							215						235					
	LFPAK56E; Power-SO8 (SOT1023)	4.58 x 5.13 x 1.03	5 x 6	30	1.3				115														
	LFPAK56-UL2595 (SOT1023A)	4.6 x 5.1 x 1	5 x 6	30	1.3				115														
	LFPAK56; Power-SO8 (SOT669)	4.9 x 4.45 x 1	5 x 6	30	1.3				13														
	SC-73 (SOT223)	6.5 x 3.5 x 1.65	6.5 x 7	45.5	4.6			115					135										
	LFPAK88 (SOT1235)	8 x 8 x 1.6	8 x 8	64	2					118													
5	X2SON5 (SOT1226-3)	0.8 x 0.8 x 0.32	0.8 x 0.8	0.64	0.5													125					
	X2SON5 (SOT1226)	0.8 x 0.8 x 0.35	0.8 x 0.8	0.64	0.5													125					
	SOT665	1.6 x 1.2 x 0.55	1.6 x 1.6	2.56	1								115										
	TSSOP5 (SOT353)	2.1 x 1.25 x 0.95	2 x 2.1	4.2	1.3							115						135					
	TSOP5 (SOT753)	2.9 x 1.5 x 1	2.9 x 2.75	7.975	0.9							125											
	TSSOP5 (SOT353-1)	2 x 1.25 x 0.95	2 x 2.1	4.2	0.6							125											
	DFN5060-5 (SOT8075-1)	5 x 6 x 0.9	5 x 6	30	1.3						332												
6	XSON6 (SOT1115)	0.9 x 1 x 0.35	0.9 x 1	0.9	0.6									125									
	X2SON6 (SOT1255-2)	1.0 x 0.8 x 0.32	1 x 0.8	0.8	0.4													147					
	X2SON6 (SOT1255)	1.0 x 0.8 x 0.32	1 x 0.8	0.8	0.4													147					












Package details and packing methods SMD

Plns/Terminals	Package	Package body size (l x w x h) (mm)	Package dimensions inc. leads (l x w) (mm)	Package area (mm ²)	Lead pitch (mm)	Package	800	1000	1500	2000	2500	3000	4000	4500	5000	8000	9000	10000	15000	20000	30000	50000		
6	DFN1010B-6 (SOT1216)	1.1 x 1.0 x 0.37	1.1 x 1	1.1	0.3										147									
	DFN1308-6 (SOT8006)	1.3 x 0.8 x 0.38	1.3 x 0.8	1.04	0.4													315						
	DFN1308-6 (SOT8006B)	1.3 x 0.8 x 0.38	1.3 x 0.8	1.04	0.4													315						
	XSON6 (SOT886)	1.45 x 1 x 0.5	1 x 1.45	1.45	0.5											115 125 132								
	DFN1412-6 (SOT1268-1)	1.4 x 1.2 x 0.47	1.4 x 1.2	1.68	0.5											147								
	SOT666	1.6 x 1.2 x 0.55	1.6 x 1.6	2.56	0.5									115 125		315								
	XSON6 (SOT1202)	1 x 1 x 0.35	1 x 1	1	0.3											125 132								
	TSSOP6 (SOT363)	2.1 x 1.25 x 0.95	2 x 2.1	4.2	0.6								115 125 115						135 165					
	TSOP6 (SOT457)	2.9 x 1.5 x 1	2.9 x 2.75	7.975	0.9														135 165					
	TSSOP6 (SOT363-2)	2 x 1.25 x 0.95	2 x 2.1	4.2	0.6								125											
	DFN2020MD-6 (SOT1220)	2 x 2 x 0.65	2 x 2	4	0.6								115 125 184											
	DFN2020D-6 (SOT1118D)	2 x 2 x 0.65	2 x 2	4	0.6								115											
	DFN2020M-6 (SOT1220-2)	2 x 2 x 0.65	2 x 2	4	0.6								115 184											
	DFN2020-6 (SOT1118)	2 x 2 x 0.65	2 x 2	4	0.6								115 184											
7	XSON7 (SOT1358-1)	1.1 x 2.1 x 0.5	1.1 x 2.1	2.31	0.5								471											
8	XSON8 (SOT1116)	1.2 x 1 x 0.35	1.2 x 1	1.2	0.3										115									
	X2SON8 (SOT1233-2)	1.35 x 0.8 x 0.32	1.35 x 0.8	1.08	0.5													115						
	XSON8 (SOT1203)	1.35 x 1 x 0.35	1.35 x 1	1.35	0.3										115									
	DFN1714-8 (SOT972-2)	1.7 x 1.35 x 0.5	1.7 x 1.35	2.295	0.4								132											
	XSON8 (SOT833-1)	1 x 1.95 x 0.5	1 x 1.95	1.95	0.5										115									
	LFPK33 (SOT1210)	2.7 x 3.4 x 0.9	3.3 x 3.3	10.89	0.6				115															
	VSSOP8 (SOT765-1)	2 x 2.3 x 1	2 x 3.1	6.2	0.5								125											
	TSSOP8 (SOT505-2)	3.0 x 3.0 x 1.1	3 x 4	12	0.6								125											
	MLPAK33 (SOT8002-1)	3.3 x 3.3 x 0.8	3.3 x 3.3	10.89	0.6								118											
	MLPAK33 (SOT8002-2)	3.3 x 3.3 x 0.8	3.3 x 3.3	10.89	0.6								118											
TSSOP8 (SOT530-1)	3 x 4.4 x 1.1	3 x 6.4	19.2	0.6							118													
LFPK56D; Dual LFPK (SOT1205)	4.7 x 5.3 x 1.05	5 x 6	30	1.3				115																
DFN8080-8 (SOT8074-1)	8 x 8 x 0.9	8 x 8	64	2							332													
10	DFN2510A-10 (SOT1176-2)	1.0 x 2.5 x 0.5	1 x 2.5	2.5	0.5										115 471									
	XQFN10 (SOT1160-1)	1.4 x 1.8 x 0.5	1.4 x 1.8	2.52	0.4								115											
	DFN2510A-10 (SOT1176-1)	2.5 x 1 x 0.5	2.5 x 1	2.5	0.5										115 471									
	DFN2510-10 (SOT1165-1)	2.5 x 1 x 0.5	2.5 x 1	2.5	0.5										115									

Package details and packing methods SMD

Plns/Terminals	Package	Package body size (l x w x h) (mm)	Package dimensions inc. leads (l x w) (mm)	Package area (mm ²)	Lead pitch (mm)	Package	800	1000	1500	2000	2500	3000	4000	4500	5000	8000	9000	10000	15000	20000	30000	50000		
10	DFN2510D-10 (SOT1165D)	2.5 x 1 x 0.75	2.5 x 1	2.5	0.5								115					118						
	DFN2510D-10 (SOT1176D)	2.5 x 1 x 0.75	2.5 x 1	2.5	0.5								115					118						
12	TSSOP10 (SOT552-1)	3 x 3 x 1.1	3 x 4.9	14.7	0.5						118													
	XQFN12 (SOT1174-1)	2 x 1.7 x 0.5	2 x 1.7	3.4	0.4								115											
13	CCPAK1212 (SOT8000)	12 x 12 x 2.5	12 x 12	144	2			139																
	CCPAK1212I (SOT8005)	12 x 12 x 2.5	12 x 12	144	2			139																
14	DHXQFN14 (SOT8014-1)	2 x 2 x 0.48	2 x 2	4	0.4								147											
	DHVQFN14 (SOT762-1)	3 x 2.5 x 1	2.5 x 3	7.5	0.5								115											
	TSSOP14 (SOT402-1)	5 x 4.4 x 1.1	5 x 6.4	32	0.6																			
	SO14 (SOT108-1)	8.65 x 3.9 x 1.75	8.65 x 6	51.9	1.3																			
16	XQFN16 (SOT1161-1)	2.6 x 1.8 x 0.5	1.8 x 2.6	4.68	0.4								115											
	DHXQFN16 (SOT8016-1)	2 x 2.4 x 0.48	2 x 2.4	4.8	0.4								115											
	DFN3314-16 (SOT974-2)	3.3 x 1.35 x 0.5	3.3 x 1.35	4.455	0.4								132											
	DHVQFN16 (SOT763-1)	3.5 x 2.5 x 1	3.5 x 2.5	8.75	0.5								115											
	HWQFN16 (SOT8076-1)	3 x 3 x 0.75	3 x 3	9	0.5										118									
	SSOP16 (SOT519-1)	4.9 x 3.9 x 1.73	4.9 x 6	29.4	0.6								118											
	TSSOP16 (SOT403-1)	5 x 4.4 x 1.1	5 x 6.4	32	0.6																			
20	SO16 (SOT109-1)	9.9 x 3.9 x 1.75	9.9 x 6	59.4	1.3																			
	SO20 (SOT163-1)	12.8 x 7.5 x 2.65	12.8 x 10.33	132.22	1.3																			
	DHXQFN20 (SOT8020-1)	2 x 3.2 x 0.48	3.2 x 2	6.4	0.4								115											
	DHVQFN20 (SOT764-1)	4.5 x 2.5 x 1	4.5 x 2.5	11.25	0.5									115										
24	TSSOP20 (SOT360-1)	6.5 x 4.4 x 1.1	6.5 x 6.4	41.6	0.6																			
	SO24 (SOT137-1)	15.4 x 7.5 x 2.65	15.4 x 10.33	159.08	1.3			118																
	DHXQFN24 (SOT8024-1)	2 x 4 x 0.48	2 x 4	8	0.4								115											
	HWQFN24 (SOT8041-1)	4 x 4 x 0.75	4 x 4	16	0.5									128										
48	DHVQFN24 (SOT815-1)	5.5 x 3.5 x 1	5.5 x 3.5	19.25	0.5								118											
	TSSOP24 (SOT355-1)	7.8 x 4.4 x 1.1	7.8 x 6.4	49.92	0.6																			
56	TSSOP48 (SOT362-1)	12.8 x 6.1 x 1.2	12.5 x 8.1	101.25	0.5						118													
	TVSOP48 (SOT480-1)	9.7 x 4.4 x 1.1	9.7 x 6.4	62.08	0.4								118											
56	TSSOP56 (SOT364-1)	14 x 6.1 x 1.2	14 x 8.1	113.4	0.5																			

WLCSP package details

Basic type	Package size (l x w x h) (mm)	# of balls	Pitch (mm)	Package	Package name	ID	Category
IP4369CX4	0.76 x 0.76 x 0.47	4	0.4		WLCSP4	OL-IP4369CX4	ESD
PMCM4401UPE	0.78 x 0.78 x 0.345	4	0.4		WLCSP4	OL-PMCM4401UPE	MOSFETs
PMCM4401VNE	0.78 x 0.78 x 0.345	4	0.4		WLCSP4	OL-PMCM4401VNE	MOSFETs
PMCM4401VPE	0.78 x 0.78 x 0.345	4	0.4		WLCSP4	OL-PMCM4401VPE	MOSFETs
PCMF1HDMI2BA-C	0.77 x 1.17 x 0.61	5	0.4		WLCSP5	OL-PCMF1HDMI-2BA-C	ESD
IP3319CX6	0.95 x 1.34 x 0.57	6	0.4		WLCSP6	OL-IP3319CX6	ESD
PMCM6501VNE	1.5 x 1 x 0.35	6	0.5		WLCSP6	OL-PMCM6501VNE	MOSFETs
PMCM6501VPE	1.5 x 1 x 0.35	6	0.5		WLCSP6	OL-PMCM6501VPE	MOSFETs
NXB0102UN	0.75 x 1.55 x 0.60	8	0.4		WLCSP8	SOT8023-1	Logic
NXS0102UN	0.75 x 1.55 x 0.60	8	0.4		WLCSP8	SOT8023-1	Logic
NXT4556UP	1.06 x 1.06 x 0.43	9	0.3		WLCSP9	SOT8027-1	Logic
PCMF2HDMI2BA-C	1.57 x 1.17 x 0.61	10	0.4		WLCSP10	OL-PCMF2HDMI-2BA-C	ESD
NXS0104UM	1.36 x 1.86 x 0.60	12	0.5		WLCSP12	SOT8019-1	Logic
PCMF3HDMI2BA-C	2.37 x 1.17 x 0.61	15	0.4		WLCSP15	OL-PCMF3HDMI-2BA-C	ESD
NXS0506UP	1.455 x 1.455 x 0.43	16	0.3		WLCSP16	SOT8025-1	Logic

Packing details glass diodes, single ended and through hole packages

Pins/ Terminals	Package	Package size (l x w x h) (mm)	Lead pitch (mm)	Package	Packing
2	ALF2 (SOD27)	4.25 x 1.85			SOD27_113 (10000)
					SOD27_133 (10000)
					SOD27_143 (5000)
	DO-41 (SOD66)	4.8 x 2.6			SOD66_113 (5000)
					SOD66_133 (5000)
	DO-34 (SOD68)	3.04 x 1.6			SOD68_113 (10000)
					SOD68_133 (10000)
					SOD68_143 (5000)
	TO-247-2 (SOT8022)	20.95 x 15.94 x 5.02	10.9		SOT8022_118 (450)
3	TO-220AB (SOT78)	15.6 x 10 x 4.4	2.5		SOT78_127 (1000)
	TO-247 (SOT429)	20.45 x 15.6 x 4.95	5.4		SOT429_127 (300)

Package cross reference list

Type	Competitor	Nexperia	Pins/Leads
6 Lead DFN	ON Semi	DFN2020-6 (SOT1118)	6
CL2	Toshiba	DSN0402-2 (SOD992)	2
CLP0603	Vishay	DSN0603-2 (SOD962)	2
CMAK/ CMPAK	Renesas	SOT323	3
CMPAK-5(T)	Renesas	SOT353	5
CMPAK-6	Renesas	SOT363	6
CMPAK/ CMAK	Renesas	SOT323	3
CP4	Toshiba	SOT143B	4
CS6	Toshiba	DFN1010-6 (SOT891)	6
CST3	Toshiba	DFN1006-3 (SOT883)	3
CST3	Toshiba	DFN1006B-3 (SOT883B)	3
CTS2 (FSC)	Toshiba	DFN1006-2 (SOD882)	2
CTS2 (FSC)	Toshiba	DFN1006D-2 (SOD882D)	2
D2PAK	Infineon	D2PAK (SOT404)	3
D2PAK	ON Semi	D2PAK (SOT404)	3
D2PAK	ST	D2PAK (SOT404)	3
D2PAK	Toshiba	D2PAK (SOT404)	3
D2PAK	Vishay	D2PAK (SOT404)	3
D2PAK	Infineon	LFPK88 (SOT1235)	4
D2PAK	ON Semi	LFPK88 (SOT1235)	4
D2PAK	ST	LFPK88 (SOT1235)	4
D2PAK	Vishay	LFPK88 (SOT1235)	4
D2PAK	Infineon	D2PAK (SOT404)	3
D2PAK	ST	D2PAK (SOT404)	3
D2PAK	Vishay	D2PAK (SOT404)	3
D2PAK	ST	D2PAK R2P (SOT8018)	2
D2PAK	Ween	D2PAK R2P (SOT8018)	2
D2PAK (TO263-2)	Infineon	D2PAK R2P (SOT8018)	2
D2PAK 3	ON Semi	D2PAK (SOT404)	3
D2PAK 3	ON Semi	LFPK88 (SOT1235)	4
D2PAK 3	ON Semi	D2PAK (SOT404)	3
D2PAK-3	ON Semi	D2PAK (SOT404)	3
D2PAK-7	Infineon	LFPK88 (SOT1235)	4
D2PAK-7	ON Semi	LFPK88 (SOT1235)	4
D2PAK-7	Vishay	LFPK88 (SOT1235)	4
D2PAK*	Diodes Inc.	D2PAK (SOT404)	3
D2PAK+	Toshiba	LFPK88 (SOT1235)	4
DFN-5	ON Semi	LFPK56 (SOT669)	4
DFN-8	ON Semi	LFPK56D (SOT1205)	8
DFN1006-3	Diodes Inc.	DFN1006-3 (SOT883)	3
DFN1006H4-3	Diodes Inc.	DFN1006-3 (SOT883)	3
DFN1411*	Diodes Inc.	DFN1010D-3 (SOT1215)	3
DFN2	ST	DSN0603-2 (SOD962)	2
DPAK	ST	DPAK RP2 (SOT8017)	2

Type	Competitor	Nexperia	Pins/Leads
DPAK	Ween	DPAK RP2 (SOT8017)	2
DPAK (TO252-2)	Infineon	DPAK RP2 (SOT8017)	2
DSN2, 0.4 x 0.2	ON Semi	DSN0402-2 (SOD992)	2
DSN2, 0.6 x 0.3	ON Semi	DSN0603-2 (SOD962)	2
DSN2, 1.0 x 0.6	ON Semi	DSN1006-2 (SOD993)	2
DSN2, 1.0 x 0.6	ON Semi	DFN1006D-2 (SOD882D)	2
DSN2, 1.6 x 0.8	ON Semi	DFN1608D-2 (SOD1608)	2
EMD2	Rohm	SOD523	2
EMD3/EMT3	Rohm	DFN1006-3 (SOT883)	3
EMT3/EMD3	Rohm	DFN1006-3 (SOT883)	3
EMT3F*	Rohm	DFN1006-3 (SOT883)	3
ESC/TESC	Toshiba	SOD523	2
ESM	Toshiba	DFN1006-3 (SOT883)	3
FM8	Toshiba	SOT96	8
FS6*	Toshiba	DFN1010B-6 (SOT1216)	6
GMD2	Rohm	DSN0603-2 (SOD962)	2
H2PAK-2	ST	D2PAK (SOT404)	3
HSMT8	Rohm	LFPK33 (SOT1210)	8
HSON-8	Renesas	LFPK56 (SOT669)	4
HSON-8 Dual	Renesas	LFPK56D (SOT1205)	8
HSOP8 (Dual)	Rohm	LFPK56D (SOT1205)	8
HSOP8 (Single)	Rohm	LFPK56 (SOT669)	4
HSOP8 (Single)	Rohm	LFPK56E (SOT1023)	4
HUML2020L8 (Dual)	Rohm	DFN2020-6 (SOT1118)	6
HUML2020L8 (Single)	Rohm	DFN2020MD-6 (SOT1220)	6
I2PAK	ON Semi	I2PAK (SOT226)	3
I2PAK	ST	I2PAK (SOT226)	3
KMD2	Rohm	DFN1608D-2 (SOD1608)	2
LDPK(S)-(1)	Renesas	D2PAK (SOT404)	3
LFPK	Renesas	LFPK56 (SOT669)	5
LFPK 5x6	ST	LFPK56 (SOT669)	4
LFPK4	ON Semi	LFPK56 (SOT669)	4
LFPK56, HSON-8	Renesas	LFPK56E (SOT1023)	4
LFPK8	ON Semi	LFPK56E (SOT1023)	4
LG A 1.0 x 0.6mm	Texas Instruments	DFN1006B-3 (SOT883B)	3
LLD	Renesas	SOD80C	2
LLDS	Rohm	SOD80C	2
LLP1006-2L	Vishay	DFN1006-2 (SOD882)	2
LLP1006-2L	Vishay	DFN1006D-2 (SOD882D)	2
LLP1006-2M	Vishay	DFN1006-2 (SOD882)	2
LLP1006-2M	Vishay	DFN1006D-2 (SOD882D)	2
LLP75-7L	Vishay	DFN1616-6 (SOT1189)	6
LPDS/LPTS	Rohm	D2PAK (SOT404)	3
LPTS	Rohm	D2PAK (SOT404)	3

Types with * show footprint compatibility only

Package cross reference list

Type	Competitor	Nexperia	Pins/ Leads
LPTS/LPDS	Rohm	D2PAK (SOT404)	3
M-Flat	Toshiba	SOD128	2
Micro 3	Int. Rectifier	SOT23	3
Micro 6	Int. Rectifier	SOT457	6
MICRO FOOT 0.8 x 0.8	Vishay	WLCSP4	4
MICRO FOOT 0.8 x 0.8*	Vishay	DFN1010D-3 (SOT1215)	3
MICRO FOOT 1 x 1.2*	Vishay	DFN1010D-3 (SOT1215)	3
MICRO FOOT 1 x 1.5*	Vishay	DFN1010D-3 (SOT1215)	3
MICRO FOOT 1 x 1*	Vishay	DFN1010D-3 (SOT1215)	3
MICRO FOOT 1.5 x 1.0	Vishay	WLCSP6	6
MICRO FOOT 1.6 x 1.6*	Vishay	DFN2020MD-6 (SOT1220)	6
MICRO FOOT*	Vishay	DFN2020MD-6 (SOT1220)	6
MicroFET	FalRchild	DFN2020MD-6 (SOT1220)	6
MicroFET 1.6 x 1.6*	FalRchild	DFN2020MD-6 (SOT1220)	6
MicroSMA	Taiwan Semiconductor	CFP2-HP (SOD323HP)	2
MicroSMP	Vishay	CFP2-HP (SOD323HP)	2
MiniMelf	Diodes Inc.	SOD80C	2
MiniMelf	ST	SOD80C	2
MiniMelf	Vishay	SOD80C	2
MP-25(K)	Renesas	TO-220 (SOT78)	3
MP-25SK	Renesas	I2PAK (SOT226)	3
MP-25ZT	Renesas	D2PAK (SOT404)	3
MP6	Renesas	DSN0603-2 (SOD962)	2
MPAK	Renesas	SOT23	3
MPAK-4R	Renesas	SOT143B	4
MPT3	Rohm	SOT89	3
PG-TD SON-8	Infineon	LFPK56 (SOT669)	5
PG-TD- SON-8	Infineon	LFPK56E (SOT1023)	4
PG-TDSON-8	Infineon	LFPK56D (SOT1205)	8
PG-TDSON-8	Infineon	LFPK56 (SOT669)	4
PG-TO220-3	Infineon	TO-220 (SOT78)	3
PG-TO262-3	Infineon	I2PAK (SOT226)	3
PG-TO263-3	Infineon	D2PAK (SOT404)	3
PG-TSDSON-8	Infineon	LFPK33 (SOT1210)	8
PMDT	Rohm	SOD128	2
PMDU	Rohm	SOD123W	2
Power DI3333-8	Diodes Inc.	LFPK33 (SOT1210)	8
Power DI5060-8	Diodes Inc.	LFPK56D (SOT1205)	8
Power DI5060-8	Diodes Inc.	LFPK56 (SOT669)	4
Power FLAT 3.3 x 3.3	ST	LFPK33 (SOT1210)	8
Power FLAT 5x6 Dual	ST	LFPK56D (SOT1205)	8
Power FLAT 5x6 Dual	ST	LFPK56 (SOT669)	4
Power- Di5060-8	Diodes Inc.	LFPK56E (SOT1023)	4

Types with * show footprint compatibility only

Type	Competitor	Nexperia	Pins/ Leads
Power- FLAT (6x5)	ST	LFPK56E (SOT1023)	4
Power88 (DFNW-8)	ON Semi	LFPK88 (SOT1235)	4
PowerDI123	Diodes Inc.	SOD123F	2
PowerDI123	Diodes Inc.	SOD123W	2
PowerDI323	Diodes Inc.	SOD323F	2
PowerDI323	Diodes Inc.	CFP2-HP (SOD323HP)	2
PowerDi5	Diodes Inc.	CFP15/B (SOT1289/B)	3
PowerDI5	Diodes Inc.	CFP15B (SOT1289B)	3
PowerFLAT (6 x 5)	ST	LFPK56 (SOT669)	5
PowerFLAT (6 x 5)	ST	LFPK56D (SOT1205)	5
PowerPAK 1212-8	Vishay	LFPK33 (SOT1210)	8
PowerPAK 8x8L	Vishay	LFPK88 (SOT1235)	4
PowerPAK SC-70	Vishay	DFN2020-6 (SOT1118)	6
PowerPAK SC-70	Vishay	DFN2020MD-6 (SOT1220)	6
PowerPak SC-70-6L	Vishay	DFN2020-6 (SOT1118)	6
PowerPak SC-75-6L*	Vishay	DFN2020MD-6 (SOT1220)	6
PowerPAK SC-75*	Vishay	DFN2020MD-6 (SOT1220)	6
PowerPAK SC706L	Vishay	DFN2020-3 (SOT1061)	3
PowerPAK SO-8	Vishay	LFPK56 (SOT669)	5
PowerPAK SO-8(L)	Vishay	LFPK56 (SOT669)	4
PowerPAK SO-8(L)	Vishay	LFPK56E (SOT1023)	4
PowerPAK SO-8L Dual	Vishay	LFPK56D (SOT1205)	8
PW-Mini	Toshiba	SOT89	3
S-Flat	Toshiba	SOD123F	2
S-Flat	Toshiba	SOD123W	2
S-Mini	Toshiba	SOT23	3
S-Mini TSM	Toshiba	SOT23	3
S08	Vishay	SOT96	8
SC-70	ON Semi	SOT323	3
SC-70, 3 leads	Vishay	SOT323	3
SC-74 TSOP-6	ON Semi	SOT457	6
SC-75	ON Semi	DFN1006-3 (SOT883)	3
SC-75	Semtech	DFN1006-3 (SOT883)	3
SC-75A	Vishay	DFN1006-3 (SOT883)	3
SC-88	ON Semi	SOT363	6
SC-88A	ON Semi	SOT353	5
SC2	Toshiba	DSN0603-2 (SOD962)	2
SC59	Diodes Inc.	SOT23	3
SC70	ON Semi	SOT323	3
SC70-3	AOS	SOT323	3
SC70-3	Vishay	SOT323	3
SC70-5L	Semtech	SOT353	5
SC70-6	AOS	SOT363	6
SC70-6	FalRchild	SOT363	6

Package cross reference list

Type	Competitor	Nexperia	Pins/Leads
SC70-6	Vishay	SOT363	6
SC70-6L	Semtech	SOT363	6
SC74 TSOP6	Infineon	SOT457	6
SC75	Infineon	DFN1006-3 (SOT883)	3
SC75	ON Semi	DFN1006-3 (SOT883)	3
SC75A	Vishay	DFN1006-3 (SOT883)	3
SC79	Infineon	SOD523	2
SC88/SC70-6/ SOT363 6 LEAD	ON Semi	SOT363	6
SC89-3	FalRchild	DFN1006-3 (SOT883)	3
SC89-3	ON Semi	DFN1006-3 (SOT883)	3
SC89-3	Vishay	DFN1006-3 (SOT883)	3
SGP0603P2X3	Semtech	DFN0603-2 (SOD972E)	2
SL2	Toshiba	DFN0603-2 (SOD972E)	2
SlimSMAW	Vishay	CFP5 (SOD128)	2
SLP0402P2X3	Semtech	DSN0402-2 (SOD992)	2
SLP1006P2	Semtech	DFN1006-2 (SOD882)	2
SLP1006P2T	Semtech	DFN1006D-2 (SOD882D)	2
SLP1006P3	Semtech	DFN1006-3 (SOT883)	3
SLP1006P3T	Semtech	DFN1006B-3 (SOT883B)	3
SLP1610N2	Semtech	DFN1608D-2 (SOD1608)	2
SLP1610P4	Semtech	DFN2510A-10 (SOT1176)	10
SLP1713P8	Semtech	DFN1714-8 (SOT1166)	8
SLP1713P8	Semtech	DFN1714U-8 (SOT983)	8
SLP2513P12	Semtech	DFN2514-12 (SOT1167)	12
SLP3313P16	Semtech	DFN3314-16 (SOT1168)	16
SM6 VS-6	Toshiba	SOT457	6
SMA flat	ST	SOD128	2
SMAFS	Diodes Inc.	CFP5 (SOD128)	2
SMD TO-263	Renesas	D2PAK (SOT404)	3
SMD0402	Rohm	DSN0402-2 (SOD992)	2
SMD6/SMT6	Rohm	SOT457	6
SMD6/SMZ6	Rohm	SOT457	6
SMF	Vishay	CFP3 (SOD123W)	2
SMPAK	Renesas	DFN1006-3 (SOT883)	3
SMPC	Vishay	CFP15B (SOT1289B)	3
SMPCc	Taiwan Semiconductor	CFP15B (SOT1289B)	3
SMPC TO-277A	Vishay	CFP15/B (SOT1289/B)	3
SMPC4.0	Taiwan Semiconductor	CFP15B (SOT1289B)	3
SMT3	Rohm	SOT23	3
SMT5*	Rohm	SOT457	6
SMT6	Rohm	SOT457	6

Type	Competitor	Nexperia	Pins/Leads
SMZ6/SMD6	Rohm	SOT457	6
SO-8 FL	ON Semi	LFPAK56 (SOT669)	5
SO-8 FL, DFN-5	ON Semi	LFPAK56E (SOT1023)	4
SO-8FL Dual	ON Semi	LFPAK56D (SOT1205)	8
SO-8FL Dual	ON Semi	LFPAK56 (SOT669)	4
SOD-123	ST	SOD123F	2
SOD-123-FL	ON Semi	SOD123W	2
SOD-123FL	ON Semi	CFP3 (SOD123W)	2
SOD-123FL	Rohm	CFP3 (SOD123W)	2
SOD-123W	Taiwan Semiconductor	CFP3 (SOD123W)	2
SOD-128	Rohm	CFP5 (SOD128)	2
SOD-128	Taiwan Semiconductor	CFP5 (SOD128)	2
SOD-323	Diodes Inc.	SOD323	2
SOD-323	ON Semi	SOD323	2
SOD-323	ST	SOD323	2
SOD-323EP	ON Semi	CFP2-HP (SOD323HP)	2
SOD-323HE	Rohm	CFP2-HP (SOD323HP)	2
SOD-523	ON Semi	SOD523	2
SOD-523	ST	SOD523	2
SOD123F	Diodes Inc.	CFP3 (SOD123W)	2
SOD323	Infineon	SOD323	2
SOD323	Semtech	SOD323	2
SOD323	Vishay	SOD323	2
SOD523	Diodes Inc.	SOD523	2
SOD523	Semtech	SOD523	2
SOD523	Vishay	SOD523	2
SOD882	ST	DFN1006-2 (SOD882)	2
SOD882T	ST	DFN1006D-2 (SOD882D)	2
SOD923-2*	ON Semi	DFN1006-2 (SOD882)	2
SOIC-8 NB	ON Semi	SOT96	8
SON 2x2	Texas Instruments	DFN2020MD-6 (SOT1220)	6
SON 3 x 3*	Texas Instruments	DFN2020MD-6 (SOT1220)	6
SOP / DSOP Advance	Toshiba	LFPAK56E (SOT1023)	4
SOP / DSOP Advance	Toshiba	LFPAK56 (SOT669)	4
SOP-8	Renesas	SOT96	8
SOP8	Rohm	SOT96	8
SOT 143	Infineon	SOT143B	4
SOT-143	Diodes Inc.	SOT143B	4
SOT-143	Semtech	SOT143B	4
SOT-223	Diodes Inc.	SOT223	4
SOT-223	Infineon	SOT223	4
SOT-223	ON Semi	SOT223	4

Types with * show footprint compatibility only

Package cross reference list

Type	Competitor	Nexperia	Pins/Leads
SOT-223	ST	SOT223	4
SOT-223	Diodes Inc.	SOT223	3
SOT-223	ON Semi	SOT223	3
SOT-323	Diodes Inc.	SOT323	3
SOT-323	ST	SOT323	3
SOT-363	Diodes Inc.	SOT363	6
SOT-89	ON Semi	SOT89	3
SOT063*	ON Semi	DFN1010B-6 (SOT1216)	6
SOT223	Diodes Inc.	SOT223	4
SOT223	FalRchild	SOT223	4
SOT223	Infineon	SOT223	4
SOT223	ON Semi	SOT223	4
SOT223	Vishay	SOT223	4
SOT23	AOS	SOT23	3
SOT23	Diodes Inc.	SOT23	3
SOT23	Infineon	SOT23	3
SOT23	ON Semi	SOT23	3
SOT23	Semtech	SOT23	3
SOT23	ST	SOT23	3
SOT23	Vishay	SOT23	3
SOT23-3	AOS	SOT23	3
SOT23-3	Diodes Inc.	SOT23	3
SOT23-3	ON Semi	SOT23	3
SOT23-5	AOS	SOT457	6
SOT23-5	Diodes Inc.	SOT457	6
SOT23-6	Diodes Inc.	SOT457	6
SOT23-6	ST	SOT457	6
SOT23-6L	Semtech	SOT457	6
SOT23F	Diodes Inc.	SOT23	3
SOT23F	Toshiba	SOT23	3
SOT26	Diodes Inc.	SOT457	6
SOT323	Diodes Inc.	SOT323	3
SOT323	FalRchild	SOT323	3
SOT323	Infineon	SOT323	3
SOT353	Diodes Inc.	SOT353	5
SOT353	Diodes Inc.	SOT363	6
SOT353	Vishay	SOT353	5
SOT363	Diodes Inc.	SOT363	6
SOT363	Infineon	SOT363	6
SOT523	Diodes Inc.	DFN1006-3 (SOT883)	3
SOT523F	FalRchild	DFN1006-3 (SOT883)	3
SOT723-3*	ON Semi	DFN1010D-3 (SOT1215)	3
SOT723*	ON Semi	DFN1010D-3 (SOT1215)	3
SOT89	Diodes Inc.	SOT89	3

Type	Competitor	Nexperia	Pins/Leads
SOT89	Infineon	SOT89	3
SOT89-3L	Diodes Inc.	SOT89	3
SOT963	ON Semi	DFN1010-6 (SOT891)	6
SOT963*	Diodes Inc.	DFN1010B-6 (SOT1216)	6
SRP-F	Renesas	SOD123W	2
SS CSP2	Toshiba	DFN1006-3 (SOT883)	3
SSD3/SST3	Rohm	SOT23	3
SSM	Toshiba	DFN1006-3 (SOT883)	3
SSOT3	FalRchild	SOT23	3
SSOT6	FalRchild	SOT457	6
SSOT6 FLMP	FalRchild	SOT457	6
SST3	Rohm	SOT23	3
SST3/SSD3	Rohm	SOT23	3
ST01005	STM	DSN0402-2 (SOD992)	2
Stmite flat	ST	SOD123W	2
sTOLL (PG-HSOF-5)	Infineon	LFPAK88 (SOT1235)	4
Sub SMA	Taiwan Semiconductor	CFP3 (SOD123W)	2
T0263	Diodes Inc.	D2PAK(SOT404)	3
T0263-3	Infineon	D2PAK (SOT404)	3
Thin PowerPAK SC-70	Vishay	DFN2020-6 (SOT1118)	6
Thin PowerPAK SC70	Vishay	DFN2020MD-6 (SOT1220)	6
Thin PowerPAK SC75*	Vishay	DFN2020MD-6 (SOT1220)	6
TO-200 real 2pin	Infineon	TO-220-2 (SOT8021)	2
TO-220	ST	TO-220 (SOT78)	3
TO-220	Toshiba	TO-220 (SOT78)	3
TO-220	Vishay	TO-220 (SOT78)	3
TO-220 FP	Onsemi	TO-220-2 (SOT8021)	2
TO-220-2	Cree	TO-220-2 (SOT8021)	2
TO-220-2	Onsemi	TO-220-2 (SOT8021)	2
TO-220-2L	Littelfuse	TO-220-2 (SOT8021)	2
TO-220-2L	Ween	TO-220-2 (SOT8021)	2
TO-220-3	ON Semi	TO-220 (SOT78)	3
TO-220-3L	ON Semi	TO-220 (SOT78)	3
TO-220A	Rohm	TO-220-2 (SOT8021)	2
TO-220AB	Vishay	TO-220 (SOT78)	3
TO-220AB	ST	TO-220-2 (SOT8021)	2
TO-220AC	ST	TO-220-2 (SOT8021)	2
TO-220AC	Rohm	TO-220-2 (SOT8021)	2
TO-220AC2L	Rohm	TO-220-2 (SOT8021)	2
TO-220F-3FS	ON Semi	TO-220 (SOT78)	3
TO-220FM	Rohm	TO-220 (SOT78)	3
TO-220S	Renesas	D2PAK (SOT404)	3
TO-220SM	Toshiba	D2PAK (SOT404)	3

Types with * show footprint compatibility only

Package cross reference list

Type	Competitor	Nexperia	Pins/Leads
TO-247	ST	TO-247-2 (SOT8022)	2
TO-247	Littelfuse	TO-247-2 (SOT8022)	2
TO-247	Rohm	TO-247-2 (SOT8022)	2
TO-247 real 2pin	Infineon	TO-247-2 (SOT8022)	2
TO-247-2	Cree	TO-247-2 (SOT8022)	2
TO-247-2	Onsemi	TO-247-2 (SOT8022)	2
TO-247-2L	Ween	TO-247-2 (SOT8022)	2
TO-252-2	Cree	DPAK RP2 (SOT8017)	2
TO-252-2L	Littelfuse	DPAK RP2 (SOT8017)	2
TO-262	Renesas	I2PAK (SOT226)	3
TO-262	Vishay	I2PAK (SOT226)	3
TO-262-2L	ON Semi	I2PAK (SOT226)	3
TO-262-3L	ON Semi	I2PAK (SOT226)	3
TO-263	Renesas	D2PAK-7 (SOT427)	7
TO-263	Renesas	D2PAK (SOT404)	3
TO-263	Vishay	D2PAK (SOT404)	3
TO-263 3-lead	Vishay	D2PAK (SOT404)	3
TO-263 real 2pin	Infineon	D2PAK R2P (SOT8018)	2
TO-263-2L	ON Semi	D2PAK (SOT404)	3
TO-263-2L	Littelfuse	D2PAK R2P (SOT8018)	2
TO-263AB	Vishay	D2PAK (SOT404)	3
TO-273-2	Cree	D2PAK R2P (SOT8018)	2
TO-277	ON Semi	CFP15B (SOT1289B)	3
TO-277A	Rohm	CFP15B (SOT1289B)	3
TO-LL	ON Semi	LFPK88 (SOT1235)	4
TO-LL (PG-HSOF-8-1)	Infineon	LFPK88 (SOT1235)	4
TO220	Infineon	TO-220 (SOT78)	3
TO220-3	Diodes Inc.	TO-220 (SOT78)	3
TO262	Infineon	I2PAK (SOT226)	3
TO263	Diodes Inc.	D2PAK (SOT404)	3
TOLG (PG-HSOG-8)	Infineon	LFPK88 (SOT1235)	4
TSLP-2-1	Infineon	DFN1006-2 (SOD882)	2
TSLP-2-7/-17	Infineon	DFN1006D-2 (SOD882D)	2
TSLP-3-1, -15	Infineon	DFN1006B-3 (SOT883B)	3
TSLP-3-4	Infineon	DFN1006-3 (SOT883)	3
TSLP-9-1	Infineon	DFN2510A-10 (SOT 1176)	10
TSMT5*	Rohm	SOT457	6
TSMT6	Rohm	SOT457	6
TSNP-2-2	Infineon	DFN1608D-2 (SOD 1608)	2
TSON Advance	Toshiba	LFPK33 (SOT1210)	8
TSOP-6	Renesas	SOT457	6
TSOP-6/ TSOP6	Vishay	SOT457	6
TSOP6	AOS	SOT457	6
TSOP6	ON Semi	SOT457	6

Type	Competitor	Nexperia	Pins/Leads
TSOP6	Vishay	SOT457	6
TSSLP-2-1	Infineon	DSN0603-2 (SOD962)	2
TSST8*	Rohm	DFN2020MD-6 (SOT1220)	6
TUMT3	Rohm	SOT323	3
TUMT5*	Rohm	DFN2020-6 (SOT1118)	6
TUMT6*	Rohm	DFN2020-6 (SOT1118)	6
Type B 2.0 x 2.0 x 0.6			
U-DFN2020-3	Diodes Inc.	DFN2020-3 (SOT1061)	3
U-DFN2020-6	Diodes Inc.	DFN2020MD-6 (SOT1220)	6
U-DFN2523-6*	Diodes Inc.	DFN2020MD-6 (SOT1220)	6
U-WLB1510-6	Diodes Inc.	WLCSP6	6
U-WLB1515-9	Diodes Inc.	WLCSP9	9
U-WLB1515-9 (Type B)	Diodes Inc.	WLCSP9	9
U-WLB1515-9 (Type E)	Diodes Inc.	WLCSP9	9
UDFN 1.7 x 1.35, 0.4P	ON Semi	DFN1714U-8 (SOT983)	8
UDFN-6 WDFN6	ON Semi	DFN2020MD-6 (SOT1220)	6
UDFN10 2.5 x 1, 0.5P	ON Semi	DFN2510A-10 (SOT1176)	10
UDFN12 2.5 x 1.35, 0.4P	ON Semi	DFN2514-12 (SOT1167)	12
UDFN2020-6 Type B	Diodes Inc.	DFN2020-6 (SOT1118)	6
UDFN2020-6 Type E	Diodes Inc.	DFN2020MD-6 (SOT1220)	6
UDFN6	ON Semi	DFN2020MD-6 (SOT1220)	6
UDFN6	Toshiba	DFN2020-6 (SOT1118)	6
UDFN6B	Toshiba	DFN2020MD-6 (SOT1220)	6
UF6	Toshiba	SOT363	6
UF6/ USV/ US6	Toshiba	SOT363	6
UFP	Renesas	SOD523	2
UMD2	Rohm	SOD323F	2
UMD3/UMT3	Rohm	SOT323	3
UMD5/UMT5	Rohm	SOT353	5
UMD6/ UMT6	Rohm	SOT363	6
UMLP 1.6 x 1.6*	Fairchild	DFN2020MD-6 (SOT1220)	6
UMT3	Rohm	SOT323	3
UMT3F*	Rohm	SOT323	3
UMTS/ UMD5	Rohm	SOT353	5
UMT6	Rohm	SOT363	6
UMT6/ UMD6	Rohm	SOT363	6
UPAK (SOT89)	Renesas	SOT89	3
URP	Renesas	SOD323	2
US-Flat	Toshiba	SOD323F	2
US6	Toshiba	SOT363	6
US6/ UF6/ USV	Toshiba	SOT363	6
use	Toshiba	SOD323	2
USM	Toshiba	SOT323	3
USV	Toshiba	SOT353	5

Types with * show footprint compatibility only

Package cross reference list

Type	Competitor	Nexperia	Pins/ Leads
USV	Toshiba	SOT363	6
USV/ US6/ UF6/	Toshiba	SOT363	6
VESM*	Toshiba	DFN1010D-3 (SOT1215)	3
VML0806*	Rohm	DFN1006B-3 (SOT883B)	3
VML1006	Rohm	DFN1006-3 (SOT883)	3
VMN2*	Rohm	DFN1006-2 (SOD882)	2
VMN2*	Rohm	DFN1006D-2 (SOD882D)	2
VMN3*	Rohm	DFN1006-3 (SOT883)	3
VMT3*	Rohm	DFN1010D-3 (SOT1215)	3
VMT6*	Rohm	DFN1010B-6 (SOT1216)	6
VS6	Toshiba	SOT457	6
W-DFN3020-8*	Diodes Inc.	DFN2020-6 (SOT1118)	6
WCSP6C	Toshiba	WLCSP6	6
WDFN-8	ON Semi	LFPK33 (SOT1210)	8
WDFN3	ON Semi	DFN2020-3 (SOT1061)	3
WDFN6	ON Semi	DFN2020-6 (SOT1118)	6
WDFN6	ON Semi	DFN2020MD-6 (SOT1220)	6
WLCSP 1 x 1*	FalRchild	WLCSP4	3
WLCSP-4*	FalRchild	WLCSP4	3
WLCSP-4*	ON Semi	WLCSP4	3
WLCSP1.6 x 1.6*	AOS	WLCSP6	6
WLCSP2	ON Semi	DSN0603-2 (SOD962)	2
WLL-2-2	Infineon	DSN0402-2 (SOD992)	2
WLL-2-2	Infineon	DSN0402B-2 (SOD992B)	2
WLP 1.0 x 1.5	Texas Instruments	WLCSP6	6
WLP1.5 x 1.5*	Texas Instruments	DFN2020MD-6 (SOT1220)	6
WLPI.O x 1.0*	Texas Instruments	DFN1010D-3 (SOT1215)	3
WLPI.O x 1.5*	Texas Instruments	DFN2020MD-6 (SOT1220)	6
X1 -DFN 1006-3	Diodes Inc.	DFN1006-3 (SOT883)	3
X1-DFN1212-3*	Diodes Inc.	DFN1010D-3 (SOT1215)	3
X1-DFN1616-6*	Diodes Inc.	DFN2020MD-6 (SOT1220)	6
X1-WLB0808-4	Diodes Inc.	WLCSP4	4
X2-DFN0606-3	Diodes Inc.	DFN0606 (SOT8001)	3
X2-DFN0806-3	Diodes Inc.	DFN1006-3 (SOT883)	3
X2-DFN1006-2	Diodes Inc.	DFN1006D-2 (SOD882D)	2
X2-DFN1006-3	Diodes Inc.	DFN1006B-3 (SOT883B)	3
X2-DFN1010-3	Diodes Inc.	DFN1010D-3 (SOT1215)	3
X2-DFN1310-6*	Diodes Inc.	DFN1010B-6 (SOT1216)	6
X2-DFN2015-3*	Diodes Inc.	DFN2020MD-6 (SOT1220)	6
X2-DFN2020-6	Diodes Inc.	DFN2020MD-6 (SOT1220)	6
X2-WLB0808-4	Diodes Inc.	WLCSP4	4
X2-WLB0808-4 (Type B)	Diodes Inc.	WLCSP4	4
X3-DFN0603-2	Diodes Inc.	DFN0603-2 (SOD972E)	2
X3-DFN0603-2	Diodes Inc.	DSN0603-2 (SOD962)	2

Types with * show footprint compatibility only

Type	Competitor	Nexperia	Pins/ Leads
X3DFN-2	ON Semi	DSN0603-2 (SOD962)	2
X3DFN2	ON Semi	DFN0603-2 (SOD972E)	2
XDFN3	ON Semi	DFN1006-3 (SOT883)	3
XI-DFN1006-2	Diodes Inc.	DFN1006-2 (SOD882)	2
XLLGA-3	ON Semi	DFN0606 (SOT8001)	3
μ8FL	ON Semi	LFPK33 (SOT1210)	8
μQFN-10L	ST	DFN2510A-10 (SOT1176)	10
μQFN-2L	ST	DFN1006-2 (SOD882)	2

Package cross reference matrix

Pins/ leads	Nexperia	Industry standard names	Size (L x w x h) (mm)	P _{tot} (mW)	Package	Competitor synonyms								
						Rohm	Toshiba	ON Semi	Renesas	Infineon	Diodes Inc	ST	Vishay	Semtech
2	DSN0402-2 (SOD992)		0.4 x 0.2 x 0.12			SMD0402	CL2	DSN2 0.4 x 0.2				ST01005		SLP- 0402P2X3
	DSN0402B-2 (SOD992B)		0.43 x 0.23 x 0.12											
	DFN0603-2 (SOD972E)		0.63 x 0.33 x 0.25				SL2	X3DFN2			X3-DFN0603-2		SGP- 0603P2X3	
	DSN1006-2 (SOD993)		1.0 x 0.6 x 0.3					DSN2 1.0 x 0.6						
	DSN1006U-2 (SOD995)		1.0 x 0.6 x 0.3					DSN2 1.0 x 0.6						
	DFN1006-2 (SOD882)		1.0 x 0.6 x 0.48	250		(VMN2)	CTS2 (FSC)	(SOD923-2)		TSLP-2-1	XI-DFN1006-2	SOD 882 uQFN-2L	LLP1006-2M LLP1006-2L	SLP1006P2
	DFN1006D-2 (SOD882D)		1.0 x 0.6 x 0.37	250		(VMN2)	CTS2 (FSC)	DSN2 1.0 x 0.6		TSLP-2-7/ -17	X2-DFN1006-2	SOD882T	LLP1006-2L LLP1006-2M	SLP1006P2T
	DFN1608D-2 (SOD1608)		1.6 x 0.8 x 0.37	780			KMD2	DSN2 1.6 x 0.8		TSNP-2-2				SLP1610N2
	DPAK R2P (SOT8017)	TO-252	6.1 x 6.6 x 2.3					DPAK		DPAK		DPAK		
	D2PAK R2P (SOT8018)	TO-263	11 x 10 x 4.3				TO-263AB	D2PAK		D2PAK		D2PAK		
	DSN0603-2 (SOD962)		0.6 x 0.3 x 0.3	525		GMD2	SC2	DSN2, X3DFN-2 WLCSF2	MP6	TSSLP-2-1	X3-DFN0603-2	DFN2	CLP0603	SLP- 0603P2X3
	SOD80C	Mini-Melf	3.5 x 1.5 x 1.5	300					LLD		MiniMelf	MiniMelf	MiniMelf	
	SOD123F		2.6 x 1.6 x 1.1	830								SOD-123		
	CFP3 (SOD123W)		2.6 x 1.7 x 1.0	950		SOD-123FL		SOD-123FL			SOD123F	SOD- 123W Sub SMA	SMF	
	CFP5 (SOD128)		3.8 x 2.5 x 1.0	1050		SOD-128					SMAFS	SOD-128	SlimSMAW	
	SOD323	SC-76	1.7 x 1.25 x 0.95	400			USC	SOD-323	URP	SOD323	SOD-323	SOD-323	SOD323	SOD323
	CFP2-HP (SOD323HP)		2.2 x 1.3 x 0.68			SOD-323HE		SOD-323EP			PowerDI323		MicroSMP	
	SOD323F	SC-90	1.7 x 1.25 x 0.7	830		UMD2	US-Flat							
	SOD523	SC-79	1.2 x 0.8 x 0.6	500		EMD2	ESC/TESC	SOD-523	UFP	SC79	SOD523	SOD-523	SOD523	SOD523
	TO-220-2 (SOT8021)	TO-220	10 x 15.6 x 4.4			TO-220	TO-220	TO-220	TO-220	TO-220			TO-220	TO-220
TO-247-2 (SOT8022)	TO-247	15.9 x 20.9 x 5			TO-247	TO-247	TO-247		TO-247			TO-247	TO-247	
3	CFP15B (SOT1289B)		5.8 x 4.3 x 0.95	2150		TO-277A		TO-277			PowerDi5	SMPC SMPC4.0	SMPC	
	DFN1006-3 (SOT883)	SC-101	1.0 x 0.6 x 0.48	250		VML1006	SS CSP2	XDFN3		TSLP-3-4	X1 -DFN 1006-3		SLP1006P3	
	DFN1006B-3 (SOT883B)		1.0 x 0.6 x 0.37	250		VML1006	CST3	XDFN3		TSLP-3-1, -15	X2-DFN1006-3		SLP1006P3T	
	DFN1010D-3 (SOT1215)		1.1 x 1.0 x 0.37	325		(VMT3)	(VESM)	(SOT723)			X2-DFN1010-3			
	DFN2020-3 (SOT1061)	HUSON3	2.0 x 2.0 x 0.62	1300				WDFN3			U-DFN2020-3 Type B 2.0 x 2.0 x 0.6		PowerPAK SC706L	
	DFN2020D-3 (SOT1061D)		2.0 x 2.0 x 0.62	1300				WDFN3			U-DFN2020-3 Type B 2.0 x 2.0 x 0.6		PowerPAK SC706L	
	D ² PAK (SOT404)		11.0 x 11.0 x 4.3			LPDS/ LPTS	TO-220SM D ² PAK	D ² PAK D ² PAK 3 TO-263-2L	TO-220S / SMD TO-263 LPAK(S)-(1) MP-25Z	D ² PAK, PG- TO263-3	TO263 (D ² PAK)	D ² PAK, H ² PAK-2	TO-263 3-lead TO-263AB / D ² PAK TO-263	
	SOT23		2.9 x 1.3 x 1.0	250		SSD3/ SST3	S-Mini TSM	SOT-23	MPAK	SOT23	SOT-23	SOT23	SOT23	SOT23
	SOT89	SC-62	4.5 x 2.5 x 1.5	1300		MPT3	PW-Mini	SOT-89	UPAK (SOT89)	SOT89	SOT89			
	SOT323	SC-70	2.0 x 1.25 x 0.95	200		UMD3/ UMT3 TUMT3	USM	SC-70	CMAK/ CMPAK	SOT323	SOT-323	SOT-323	SC-70 3 leads	SOT-323
	TO-220 (SOT78)		15.6 x 10 x 4.4			TO-220FM	TO-220	TO-220-3L, TO-220F-3FS, TO-220-3	MP-25(K)	PG- TO220-3, TO220	TO220-3	TO-220	TO-220, TO- 220AB	
I ² PAK (SOT226)		11 x 10 x 4.3					I ² PAK, TO-262-2L, TO-262-3L	MP-25SK, TO-262			I ² PAK	TO-262		

Types in brackets (...) show footprint compatibility only

Package cross reference matrix

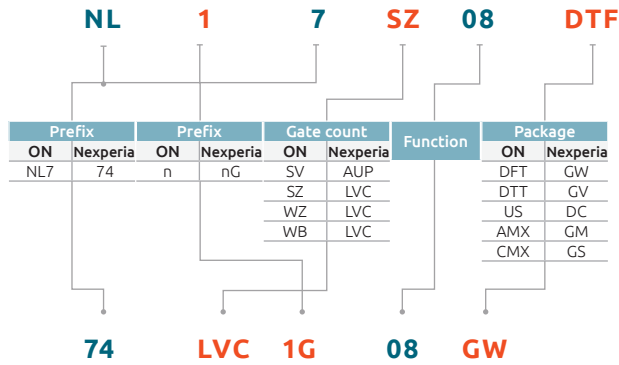
Pins/ leads	Nexperia	Industry standard names	Size (l x w x h) (mm)	P _{tot} (mW)	Package	Competitor synonyms								
						Rohm	Toshiba	ON Semi	Renesas	Infinion	Diodes Inc	ST	Vishay	Semtech
4	LPAK56 (SOT669)	Power-S08	4.9 x 4.45 x 1.0	395W		HSOP8 (Single)	SOP / DSOP Advance	SO-8 FL, DFN-5, LPAK4	LPAK56, HSON-8	PG-TD-SON-8	Power-Di5060-8	Power-FLAT (6x5)	PowerPAK SO-8(L)	
	SOT143B		2.9 x 1.3 x 1.0	250			CP4		MPAK-4R	SOT143	SOT-143		SOT-143	
	LPAK56E (SOT1023)		6.2 x 5.3 x 1.1	500W		HSOP8 (Single)	SOP / DSOP Advance	SO-8 FL, DFN-5, LPAK8	LPAK56, HSON-8	PG-TD-SON-8	Power-Di5060-8	Power-FLAT (6x5)	PowerPAK SO-8(L)	
	SOT223	SC-73	6.5 x 3.5 x 1.65	1700				SOT-223		SOT223	SOT-223		SOT223	
	LPAK88 (SOT1235)		8 x 8 x 1.6	375W			D ² PAK+	TO-LL Power88 D ² PAK-3 D ² PAK-7		TO-LL sTOLL TOLG D ² PAK D ² PAK7P		D ² PAK H ² PAK-2 H ² PAK-6	PowerPAK 8x8L D ² PAK-3 D ² PAK-7	
5	SOT353	SC-88 A	2.0 x 1.25 x 0.95	300		UMD5/ UMT5	USV	SC-88 A	CMPAK-SC0		SOT353		SOT353	SC70-5L
6	DFN1010-6 (SOT891)	XSON6	1.0 x 1.0 x 0.48					CS6	SOT963					
	DFN1010B-6 (SOT1216)		1.1 x 1.0 x 0.37	350		(VMT6)	(FS6)	(SOT063)			(SOT963)			
	DFN1410-6 (SOT886)	XSON6	1.45 x 1.0 x 0.48	250										SLP1510N6
	DFN2020-6 (SOT1118)		2.0 x 2.0 x 0.62	1300		HU-ML2020L8 (Dual)	UDFN6	6 Lead DFN WDFN6			UDFN2020-6 Type B		PowerPAK SC-70 Thin PowerPAK SC-70	
	DFN2020D-6 (SOT1118D)		2.0 x 2.0 x 0.62	1300		HU-ML2020L8 (Dual)	UDFN6	6 Lead DFN WDFN6			UDFN2020-6 Type B		PowerPAK SC-70 Thin PowerPAK SC-70	
	DFN-2020MD-6 (SOT1220)		2.0 x 2.0 x 0.62	1250		HU-ML2020L8 (Single)	UDFN6B	UDFN-6 WDFN6			UDFN2020-6 Type E		PowerPAK SC-70 Thin PowerPAK SC-70	
	SOT363	SC-88	2.0 x 1.25 x 0.95	300		UMD6/ UMT6	US6 UF6 USV	SC-88	CMPAK-6	SOT363	SOT-363		SC70-6	SC70-6L
	SOT457	SC-74	2.9 x 1.5 x 1.0	750		SMD6/ SMT6	SM6 VS-6	SC-74 TSOP-6	TSOP-6	SC74 TSOP6	SOT23-6 SOT26		TSOP6 TSOP-6	SOT23-6L
8	LPAK33 (SOT1210)		3.3 x 3.3 x 0.85	790		HSMT8	TSON Advance	µ8FL, WDFN-8		PG-TSD-SON-8	Power DI3333-8	Power FLAT 3.3 x 3.3	PowerPAK 1212-8	
	LPAK56D (SOT1205)		4.9 x 4.45 x 1.0	680		HSOP8 (Dual)		SO-8FL Dual, DFN-8	HSON-8 dual	PG-TDSON-8	Power DI5060-8	Power FLAT 5x6 Dual	PowerPAK SO-8L Dual	
	DFN1714-8 (SOT1166)	HUSON8	1.7 x 1.35 x 0.52											SLP1713P8
	DFN1714U-8 (SOT983)	HXSON8	1.7 x 1.35 x 0.48					UDFN 1.7 x 1.35, 0.4P						SLP1713P8
10	DFN2510-10 (SOT1165)	XSON10	2.5 x 1.0 x 0.48					UDFN10 2.5 x 1, 0.5P		TSLP-9-1		pQFN-10L		SLP1610P4
	DFN-2510A-10 (SOT1176)	XSON10	2.5 x 1.0 x 0.48					UDFN10 2.5 x 1, 0.5P		TSLP-9-1		pQFN-10L		SLP1610P4
	DFN2626-10 (SOT1197)		2.6 x 2.6 x 0.48					UDFN10 2.6 x 2.6, 0.5P						SLP2626P10
12	DFN2512-12 (SOT1158)	HXSON12	2.5 x 1.2 x 0.48					UDFN12, 2.5 x 1.2, 0.4P						
	DFN2514-12 (SOT1167)	HUSON12	2.5 x 1.35 x 0.53					UDFN12, 2.5 x 1.35, 0.4P						SLP2513P12
16	DFN3312-16 (SOT1159)	HXSON16	3.3 x 1.2 x 0.48					UDFN 16, 3.5 x 1.2, 0.4P						
	DFN3314-16 (SOT1168)	HUSON16	3.3 x 1.35 x 0.53											SLP3313P16

Types in brackets (...) show footprint compatibility only

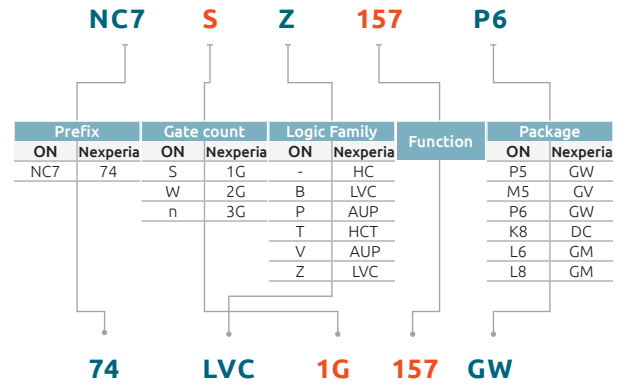
Competitive cross reference - Analog & logic ICs

This cross reference allows you to match a competitor's part number to a Nexperia part number. Once you have the equivalent part number, check the Nexperia website www.nexperia.com/logic to confirm that the particular configuration is released.

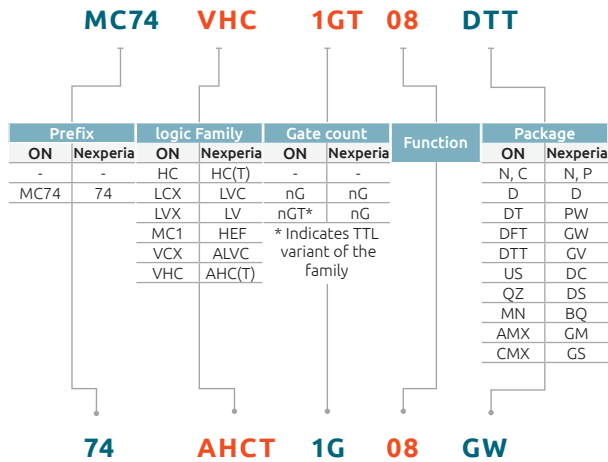
On semiconductor low pin count logic



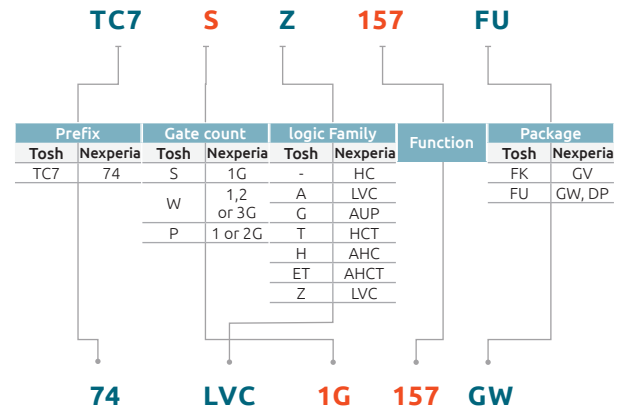
ON semiconductor tiny logic



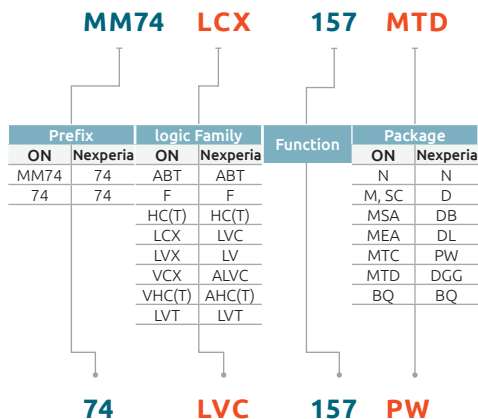
On semiconductors logic



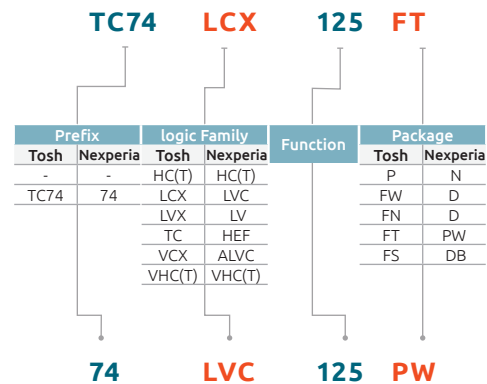
Toshiba one gate



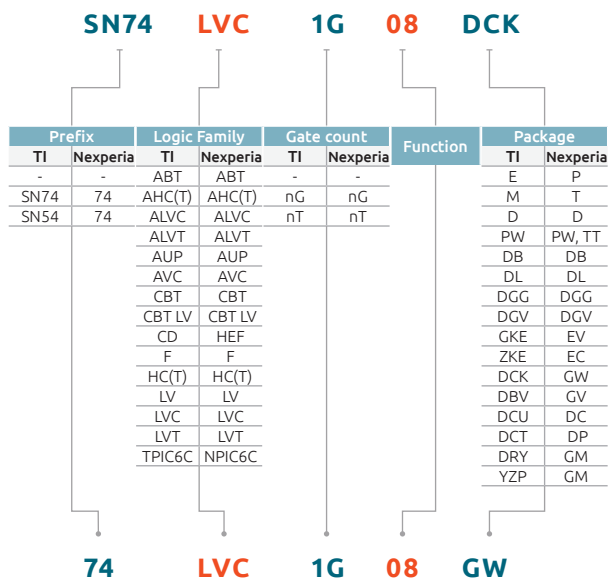
ON semiconductor standard logic



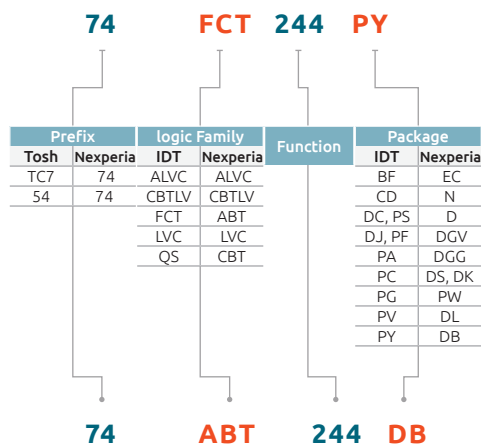
Toshiba standard logic



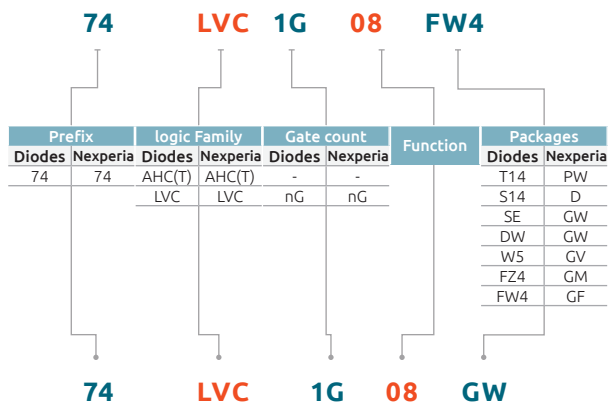
Texas instruments logic



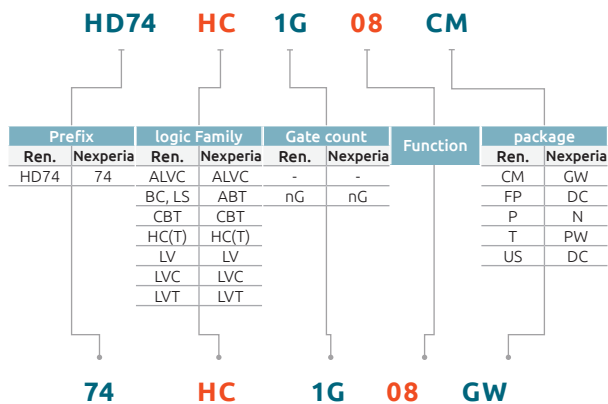
IDT logic



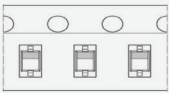
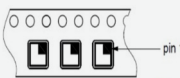
Diodes Inc. logic


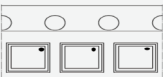
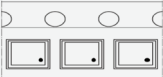


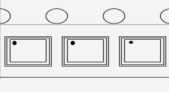
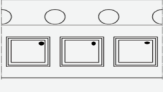
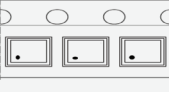
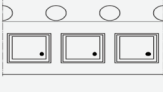
Renesas logic



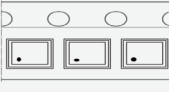



Product orientation (tape and reel pack)

Orientation in tape	Package	Packing 12NC ending	Orientation in tape	Package	Packing 12NC ending
		DFN1006-2 (SOD882)		315	
	DFN1006D-2 (SOD882D)	315		D ² PAK (SOT8018)	118
	DFN1608D-2 (SOD1608)	315			
	DFN1006BD-2 (SOD882BD)	315			
	DSN0603-2 (SOD962)	315			
	DFN0603-2 (SOD972E)	317			
	DFN0603-3 (SOT8013)	317			
	DSN0402-2 (SOD992)	315			
	DSN0402B-2 (SOD992B)	315			
	DSN1006-2 (SOD993)	315			
	DSN1006-2 (SOD993B)	315			
	DSN1006U-2 (SOD995)	315			
	DSN1608-2 (SOD963&964)	315			
	SOD80	115, 135			
	SOD123F	115			
	CFP3 (SOD123W)	115			
	SOD123	115, 118			
	CFP5 (SOD128)	115			
	CFP2-HP (SOD323HP)	115			
	SOD323	115, 135			
	SOD323F	115			
	SOD523	115, 135, 315, 335			

Orientation in tape	Package	Packing 12NC ending	Orientation in tape	Package	Packing 12NC ending
	SOT89	146		DFN1010D-3 (SOT1215)	147
				DFN2020-3 (SOT1061)	115, 135
				DFN2020D-3 (SOT1061D)	115, 135
				SOT89	115, 135
				D ² PAK (SOT404)	118
				SOT89	147
	DFN1006-3 (SOT883)	315		CFP15 (SOT1289)	139, 146
	DFN1006B-3 (SOT883B)	315		CFP15B (SOT1289B)	139
	SOT23	185, 215, 235		DSN1006 (SOT8007)	326
	SOT323	115, 135		DSN1010-3 (SOT8007)	315
	SOT416	115, 135		DFN0606-3 (SOT8001)	125
	SOT663	115			

4 pin packages		WLCSP4 (0808)	084			
		LFPK56 (SOT669)	115			
		LFPK56E (SOT1023)	115			
		LFPK56-UL2595 (SOT1023A)	115			
		LFPK88 (SOT1235)	118			
4 pin packages		SOT143B	215, 235			
		SOT223	115, 135			
		DFN1010-4 (SOT1194)	115			

5 pin packages		WLCSP5 (1208)	087		SOT353	115, 135	
						SOT665	115
5 pin packages		SOT753	125				
		X2SON5 (SOT1226)	125				
		UMTS (SOT353-1)	125				
		SO5 (SOT753)	125				

6 pin packages	Orientation in tape	Package	Packing 12NC ending	Orientation in tape	Package	Packing 12NC ending	
			DFN1410-6 (SOT886)	115		DFN1412-6 (SOT1268)	147
		DFN2020MD-6 (SOT1220)	184	DFN2020D-6 (SOT1118D)		115	
		LFPK33 (SOT1210)	115	DFN2020MD-6 (SOT1220)		115	
		LFPK56D (SOT1205)	115	SOT363		115, 135	
		WLCSP6 (1510)	023	SOT457		115, 135	
		XSON6 (SOT1202)	125	X2SON6 (SOT1255)		147	
		XSON6 (SOT886)	125	DFN0606B-6		147	
		DFN1308-6 (SOT8006)	315	SOT666		315	
		DFN1308-6 (SOT8006B)	315				
		DFN2020M-6 (SOT1220-2)	115				
			DFN1010-6 (SOT891)	132		DFN0606 (SOT8001)	147
			DFN1010E-6 (SOT1202)	132			
			DFN1410-6 (SOT886)	132			
			DFN2020MD-6 (SOT1220)	125			
			SOT363	125, 165			
		SOT457	125, 165				
		SC-88 (SOT363)	125				
		SC-74 (SOT457)	125				

multi I/O pin packages	Orientation in tape	Package	Packing 12NC ending	Orientation in tape	Package	Packing 12NC ending	
			DFN2110-9 (SOT1178)	115		DHXQFN14 (SOT8014-1)	147
		DFN2111-7 (SOT1358)	471				
		DFN2510A-10 (SOT1176)	115				
		DFN2520-9 (SOT1333)					
		DFN2520-9 (SOT1333)					
		DFN2520-9 (SOT1333)					
		DFN2520-9 (SOT1333)					
		DFN5050-32 (SOT617-3)					
		DHXQFN16 (SOT8016-1)	115				
		DHXQFN20 (SOT8020-1)	115				
		DHXQFN24 (SOT8024-1)	115				
		XSON8 (SOT1116)	115				
		X2SON8 (SOT1233-2)	115				
		XSON8 (SOT1203)	115				
		XSON8 (SOT833-1)	115				
		TSSOP8 (SOT530-1)	118				
		TSSOP10 (SOT552-1)	118				
		XQFN10 (SOT1160-1)	115				
		XQFN12 (SOT1174-1)	115				
		DHVQFN14 (SOT762-1)	115				
		TSSOP14 (SOT402-1)	118				
		TSSOP16 (SOT403-1)	118				
		SO16 (SOT109-1)	118				
		TSSOP20 (SOT360-1)	118				
		SO20 (SOT163-1)	118				
		DHXQFN20 (SOT1045-2)	115				
		DHVQFN20 (SOT764-1)	115				
		DHVQFN24 (SOT815-1)	118				
		TSSOP24 (SOT355-1)	118				
		TSSOP48 (SOT362-1)	118				
		TSSOP48 (SOT480-1)	118				
		TSSOP56 (SOT364-1)	118				
			VSSOP8 (SOT765-1)	125			
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1PS70SB20	65	74AHC1G04	146	74AHC138-Q100	133	74AHCT14-Q100	129	74ALVC541	147
1PS70SB82	61	74AHC1G04-Q100	137	74AHC139	169	74AHCT17A	146	74ALVC541-Q100	126
1PS70SB84	61	74AHC1G07	146	74AHC139-Q100	133	74AHCT17A	146	74ALVC573	166
1PS70SB85	61	74AHC1G07-Q100	137	74AHC157	170	74AHCT30	156	74ALVC574	164
1PS70SB86	61	74AHC1G08	155	74AHC157-Q100	133	74AHCT30-Q100	128	74ALVC16244	147
1PS745B23	66	74AHC1G08-Q100	139	74AHC164	167	74AHCT32	157	74ALVC16245	153
1PS765B10	60	74AHC1G09	155	74AHC164-Q100	131	74AHCT32-Q100	128	74ALVC164245	173
1PS765B17	61	74AHC1G09-Q100	139	74AHC244	146	74AHCT74	164	74ALVC164245-Q100	134
1PS765B21	60	74AHC1G14	146	74AHC244-Q100	126	74AHCT74-Q100	129	74ALVCH16244	147
1PS765B40	60	74AHC1G14	161	74AHC245	153	74AHCT86	159	74ALVCH16245	153
1PS765B70	60	74AHC1G14-Q100	141	74AHC245-Q100	127	74AHCT86-Q100	128	74ALVCH16373	166
1PS795B17	61	74AHC1G17	146	74AHC257	170	74AHCT123A	171	74ALVCH16374	164
1PS795B30	60	74AHC1G17	161	74AHC257-Q100	133	74AHCT123A-Q100	134	74ALVCH16500	153
1PS795B31	60	74AHC1G17-Q100	137	74AHC273	164	74AHCT125	146	74ALVCH16501	153
1PS795B40	60	74AHC1G32	157	74AHC273-Q100	129	74AHCT125-Q100	126	74ALVCH16543	153
1PS795B70	60	74AHC1G32-Q100	139	74AHC373	166	74AHCT126	146	74ALVCH16600	153
1PS885B48	60	74AHC1G66	175	74AHC374	164	74AHCT126-Q100	126	74ALVCH16601	153
1PS885B82	61	74AHC1G66-Q100	145	74AHC374-Q100	129	74AHCT132	156	74ALVCH16646	153
1PS300	53	74AHC1G79	164	74AHC541	146	74AHCT132	161	74ALVCH16652	153
1PS301	53	74AHC1G79-Q100	142	74AHC541-Q100	126	74AHCT132-Q100	129	74ALVCH16821	164
1PS302	53	74AHC1G86	159	74AHC573	166	74AHCT138	169	74ALVCH16823	164
2N700BKM	108	74AHC1G86-Q100	139	74AHC573-Q100	130	74AHCT138-Q100	133	74ALVCH16825	147
2N7002BK	98	74AHC1G125	146	74AHC574	164	74AHCT139	169	74ALVCH16827	147
2N7002BKMB	108	74AHC1G125-Q100	137	74AHC594	167	74AHCT139-Q100	133	74ALVCH16841	166
2N7002BKSS	98	74AHC1G126	146	74AHC594-Q100	131	74AHCT157	170	74ALVCH16843	166
2N7002BKW	98	74AHC1G126-Q100	137	74AHC595	167	74AHCT157-Q100	133	74ALVCH16952	153
2N7002KQB	98	74AHC1G4208	168	74AHC595-Q100	131	74AHCT164	167	74ALVCH162244	147
2PA1576Q (-Q)	21	74AHC1G4208-Q100	142	74AHC9541A	146	74AHCT164-Q100	131	74ALVCH162245	153
2PA1576R (-Q)	21	74AHC1G4210	168	74AHCCT00	156	74AHCT240	146	74ALVCH162601	153
2PA1576S (-Q)	21	74AHC1G4210-Q100	142	74AHCCT00-Q100	128	74AHCT240-Q100	126	74ALVCH162827	147
2PA1774QMB	21	74AHC1G4212	168	74AHCCT1G00	156	74AHCT244	147	74ALVT16244	147
2PA1774RMB	21	74AHC1G4212-Q100	142	74AHCCT1G00-Q100	139	74AHCT244A	147	74ALVT16373	166
2PA1774SMB	21	74AHC1G4214	168	74AHCCT1G02	158	74AHCT244-Q100	126	74ALVT16821	164
2PB709ARL	21	74AHC1G4214-Q100	142	74AHCCT1G02-Q100	139	74AHCT245	153	74ALVT16823	164
2PB709ART	21	74AHC1G4215	168	74AHCCT1G04	146	74AHCT245A	153	74ALVT16827	147
2PB709ARW	21	74AHC1G4215-Q100	142	74AHCCT1G04-Q100	137	74AHCT245-Q100	127	74ALVT162245	153
2PB709ASL	21	74AHC1GU04	146	74AHCCT1G08	155	74AHCT257	170	74ALVT162821	164
2PB709ASW	21	74AHC1GU04-Q100	137	74AHCCT1G08-Q100	139	74AHCT257-Q100	133	74ALVT162823	164
2PB709BRL	21	74AHC02	158	74AHCCT1G14	146	74AHCT273	164	74ALVT162827	147
2PB709BSL	21	74AHC2G00	156	74AHCCT1G14	161	74AHCT273-Q100	129	74AUP1G00	156
2PB710ARL	21	74AHC2G00-Q100	139	74AHCCT1G14-Q100	141	74AHCT374	164	74AUP1G00-Q100	139
2PB710ASL	21	74AHC2G08	155	74AHCCT1G17	146	74AHCT374-Q100	129	74AUP1G02	158
2PB1219AQ	21	74AHC2G08-Q100	139	74AHCCT1G17	161	74AHCT541	147	74AUP1G02-Q100	139
2PB1219AR	21	74AHC2G32	157	74AHCCT1G17-Q100	137	74AHCT541A	147	74AUP1G04	147
2PB1219AS	21	74AHC2G32-Q100	139	74AHCCT1G32	157	74AHCT541-Q100	126	74AUP1G04-Q100	137
2PC4081Q (-Q)	20	74AHC2G125	146	74AHCCT1G32-Q100	139	74AHCT573	166	74AUP1G06	147
2PC4081R (-Q)	20	74AHC2G125-Q100	137	74AHCCT1G66	175	74AHCT573-Q100	130	74AUP1G06-Q100	137
2PC4081S (-Q)	20	74AHC2G126	146	74AHCCT1G66-Q100	145	74AHCT574	164	74AUP1G07	147
2PC4617QMB	20	74AHC2G126-Q100	137	74AHCCT1G79	164	74AHCT594	167	74AUP1G07-Q100	137
2PC4617RMB	20	74AHC2G241	146	74AHCCT1G79-Q100	142	74AHCT594-Q100	131	74AUP1G08-Q100	139
2PD601ARL	20	74AHC2G241-Q100	137	74AHCCT1G86	159	74AHCT595	167	74AUP1G09-Q100	139
2PD601ART (-Q)	20	74AHC02-Q100	128	74AHCCT1G86-Q100	139	74AHCT595-Q100	131	74AUP1G14	147
2PD601ARW (-Q)	20	74AHC3G04	146	74AHCCT1G125	146	74AHCU04	147	74AUP1G14	161
2PD601ASL	20	74AHC3G04-Q100	137	74AHCCT1G125-Q100	137	74AHCU04-Q100	126	74AUP1G14-Q100	141
2PD601ASW (-Q)	20	74AHC3G14	146	74AHCCT1G126	146	74AHCV05A	147	74AUP1G16	147
2PD601BRL	20	74AHC3G14	161	74AHCCT1G126-Q100	137	74AHCV05A	161	74AUP1G17	161
2PD601BSL	20	74AHC3G14-Q100	141	74AHCCT02	158	74AHCV07A	147	74AUP1G17-Q100	141
2PD602AQL	20	74AHC3GU04	146	74AHCCT2G00	156	74AHCV07A	161	74AUP1G18	169
2PD602ARL	20	74AHC3GU04-Q100	137	74AHCCT2G00-Q100	139	74AHCV14A	147	74AUP1G19	169
2PD602ASL (-Q)	20	74AHC04	146	74AHCCT2G08	155	74AHCV14A	161	74AUP1G32	157
2PD1820AR	20	74AHC04-Q100	126	74AHCCT2G08-Q100	139	74AHCV17A	147	74AUP1G32-Q100	139
2PD1820AS	20	74AHC08	155	74AHCCT2G32	157	74AHCV17A	161	74AUP1G34	147
-10T (-Q) / -16T (-Q)	24	74AHC08-Q100	128	74AHCCT2G32-Q100	139	74AHCV244A	147	74AUP1G34-Q100	137
74ABT00	156	74AHC14	146	74AHCCT2G125	147	74AHCV244A	161	74AUP1G38	156
74ABT04	146	74AHC14	161	74AHCCT2G125-Q100	137	74AHCV245A	153	74AUP1G57	160
74ABT08	155	74AHC14-Q100	129	74AHCCT2G126	147	74AHCV245A	161	74AUP1G57	161
74ABT32	157	74AHC30	156	74AHCCT2G126-Q100	137	74AHCV541A	147	74AUP1G58	160
74ABT74	164	74AHC30-Q100	128	74AHCCT2G241	147	74AHCV541A	161	74AUP1G58	161
74ABT125	146	74AHC32	157	74AHCCT2G241-Q100	137	74ALVC00	156	74AUP1G74	164
74ABT126	146	74AHC32-Q100	128	74AHCCT02-Q100	128	74ALVC00-Q100	128	74AUP1G74-Q100	142
74ABT244	146	74AHC74	164	74AHC3G04	147	74ALVC02	158	74AUP1G79	164
74ABT245	153	74AHC74-Q100	129	74AHC3G04-Q100	137	74ALVC04	147	74AUP1G80	164
74ABT16240A	146	74AHC86	159	74AHC3G14	147	74ALVC08	155	74AUP1G86	159
74ABT16244A	146	74AHC86-Q100	128	74AHC3G14	161	74ALVC14	147	74AUP1G86-Q100	139
74ABT16245B	153	74AHC123A	171	74AHC3G14-Q100	141	74ALVC14	161	74AUP1G97	160
74ABT162244	146	74AHC123A-Q100	134	74AHCCT04	146	74ALVC32	157	74AUP1G97	161
74ABT162245A	153	74AHC125	146	74AHCCT04A	146	74ALVC32-Q100	128	74AUP1G98	160
74ABTH162245A	153	74AHC125-Q100	126	74AHCCT04-Q100	126	74ALVC74	164	74AUP1G98	161
74AHC00	156	74AHC126	146	74AHCCT07A	146	74ALVC125	147	74AUP1G125	147
74AHC00-Q100	128	74AHC126-Q100	126	74AHCCT08	155	74ALVC125-Q100	126	74AUP1G125-Q100	137
74AHC1G00	156	74AHC132	156	74AHCCT08-Q100	128	74ALVC244	147	74AUP1G126	147
74AHC1G00-Q100	139	74AHC132	161	74AHCCT14	146	74ALVC245	153	74AUP1G132	156
74AHC1G02	158	74AHC132-Q100	129	74AHCCT14	161	74ALVC373	166	74AUP1G132	161

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74AUP1G157-Q100	143	74AUP2G132	156	74CBTLVD3245-Q100	136	74HC21	155	74HC373	166
74AUP1G158	170	74AUP2G132	161	74CBTLVD3384	176	74HC27	158	74HC373-Q100	130
74AUP1G175	164	74AUP2G157	170	74CBTLVD3861	176	74HC30	156	74HC374	164
74AUP1G175-Q100	142	74AUP2G240	148	74HC00	156	74HC32	157	74HC377	165
74AUP1G240	147	74AUP2G241	148	74HC00-Q100	128	74HC42	169	74HC377-Q100	130
74AUP1G332	157	74AUP2G0604	160	74HC1G00	156	74HC73	165	74HC390	168
74AUP1G373	166	74AUP2G3404	160	74HC1G00-Q100	139	74HC73-Q100	129	74HC393	168
74AUP1G373-Q100	142	74AUP2G3407	160	74HC1G02	158	74HC74	165	74HC393-Q100	132
74AUP1G374	164	74AUP2GU04	148	74HC1G02-Q100	139	74HC74-Q100	129	74HC423	171
74AUP1G374-Q100	142	74AUP2GU04-Q100	137	74HC1G04	148	74HC75	166	74HC540	149
74AUP1G386	159	74AUP3G04	148	74HC1G04-Q100	137	74HC85	171	74HC540-Q100	126
74AUP1G0832	160	74AUP3G07	148	74HC1G08	155	74HC86	159	74HC541	149
74AUP1G885	160	74AUP3G14	148	74HC1G08-Q100	139	74HC107	164	74HC541-Q100	126
74AUP1G3208	160	74AUP3G14	161	74HC1G14	148	74HC107-Q100	129	74HC573	166
74AUP1G3208	160	74AUP3G16	148	74HC1G14	162	74HC109	164	74HC573-Q100	130
74AUP1GU04	147	74AUP3G17	148	74HC1G14-Q100	141	74HC109-Q100	129	74HC574	165
74AUP1T00	156	74AUP3G17	162	74HC1G32	157	74HC112	164	74HC574-Q100	130
74AUP1T00	172	74AUP3G34	148	74HC1G32-Q100	139	74HC123	171	74HC590	168
74AUP1T02	158	74AUP3G0434	160	74HC1G66	175	74HC123-Q100	134	74HC594	167
74AUP1T02	172	74AUP3G3404	160	74HC1G66-Q100	145	74HC125	148	74HC594-Q100	131
74AUP1T04	147	74AVC1T45	173	74HC1G86	159	74HC125-Q100	126	74HC595	167
74AUP1T04	172	74AVC1T45-Q100	144	74HC1G86-Q100	139	74HC126	148	74HC595-Q100	131
74AUP1T08	155	74AVC1T1004	148	74HC1G125	148	74HC126-Q100	126	74HC597	167
74AUP1T08	172	74AVC1T1004	172	74HC1G125-Q100	137	74HC132	156	74HC597-Q100	131
74AUP1T08-Q100	144	74AVC1T1004	172	74HC1G126	148	74HC132	162	74HC688	171
74AUP1T14	148	74AVC1T1022	172	74HC1GU04	148	74HC132-Q100	129	74HC4002	158
74AUP1T14	172	74AVC1T8128	172	74HC1GU04-Q100	137	74HC137	169	74HC4017	168
74AUP1T17	148	74AVC1T8832	172	74HC02	158	74HC138	169	74HC4017-Q100	132
74AUP1T17	172	74AVC2T45	173	74HC2G00	156	74HC138-Q100	133	74HC4020	168
74AUP1T32	157	74AVC2T45-Q100	144	74HC2G00-Q100	139	74HC139	169	74HC4020-Q100	132
74AUP1T32	172	74AVC2T245	173	74HC2G02	158	74HC139-Q100	133	74HC4024	168
74AUP1T34	172	74AVC2T245-Q100	144	74HC2G02-Q100	139	74HC151	140	74HC4024-Q100	132
74AUP1T34-Q100	144	74AVC4T245	173	74HC2G04	148	74HC151-Q100	133	74HC4040	168
74AUP1T45	173	74AVC4T245-Q100	134	74HC2G04-Q100	138	74HC153	170	74HC4040-Q100	132
74AUP1T50	148	74AVC4T774	153	74HC2G08	155	74HC153-Q100	133	74HC4046A	171
74AUP1T50	172	74AVC4T774	173	74HC2G08-Q100	140	74HC154	169	74HC4049	172
74AUP1T57	160	74AVC4T774-Q100	134	74HC2G14	148	74HC157	170	74HC4050	172
74AUP1T57	172	74AVC4T3144	148	74HC2G14	162	74HC157-Q100	133	74HC4050-Q100	134
74AUP1T58	160	74AVC4T3144	172	74HC2G14-Q100	141	74HC161	168	74HC4051	175
74AUP1T58	172	74AVC4T3144-Q100	134	74HC2G16	148	74HC161-Q100	132	74HC4051-Q100	135
74AUP1T86	159	74AVC4TD245	173	74HC2G17	149	74HC164	167	74HC4052	175
74AUP1T86	172	74AVC8T245	173	74HC2G17	162	74HC164-Q100	131	74HC4052-Q100	135
74AUP1T87	159	74AVC8T245-Q100	134	74HC2G17-Q100	141	74HC165	167	74HC4053	175
74AUP1T87	172	74AVC16T245	173	74HC2G32	157	74HC165-Q100	131	74HC4053-Q100	135
74AUP1T97	160	74AVC16T245-Q100	134	74HC2G32-Q100	140	74HC166	167	74HC4060	168
74AUP1T97	172	74AVC20T245	173	74HC2G34	149	74HC166-Q100	131	74HC4060-Q100	132
74AUP1T97-Q100	144	74AVC9112	148	74HC2G34-Q100	138	74HC173	164	74HC4066	175
74AUP1T98	160	74AVCH1T45	173	74HC2G66	175	74HC174	164	74HC4066-Q100	135
74AUP1T98	172	74AVCH1T45-Q100	144	74HC2G66-Q100	145	74HC174-Q100	129	74HC4067	175
74AUP1T98-Q100	144	74AVCH2T45	173	74HC2G86	159	74HC175	164	74HC4067-Q100	135
74AUP1Z04	160	74AVCH2T45-Q100	144	74HC2G86-Q100	140	74HC175-Q100	130	74HC4075	157
74AUP1Z04-Q100	139	74AVCH4T245	173	74HC2G125	148	74HC191	168	74HC4094	167
74AUP1Z125	160	74AVCH4T245-Q100	134	74HC2G125-Q100	138	74HC193	168	74HC4094-Q100	131
74AUP2G00	156	74AVCH8T245	173	74HC2GU04	149	74HC193-Q100	132	74HC4316	175
74AUP2G00-Q100	128	74AVCH16T245	173	74HC2GU04-Q100	137	74HC237	169	74HC4351	175
74AUP2G00-Q100	139	74AVCH20T245	173	74HC02-Q100	128	74HC237-Q100	133	74HC4511	169
74AUP2G02	158	74AXP1G08	155	74HC03	156	74HC238	169	74HC4514	169
74AUP2G04	148	74AXP1G09	155	74HC3G04	149	74HC238-Q100	133	74HC4514-Q100	133
74AUP2G04-Q100	137	74AXP1G11	155	74HC3G04-Q100	138	74HC240	148	74HC4520	168
74AUP2G06	148	74AXP1T45	173	74HC3G06	149	74HC240-Q100	126	74HC4520-Q100	132
74AUP2G07	148	74AXP2T45	173	74HC3G07	149	74HC241	148	74HC4538	171
74AUP2G08	155	74AXP4T245	173	74HC3G07-Q100	138	74HC244	148	74HC4538-Q100	134
74AUP2G14	148	74AXP8T245	173	74HC3G14	149	74HC244-Q100	126	74HC4851	175
74AUP2G14	161	74CB3Q3253	176	74HC3G14	162	74HC245	153	74HC4851-Q100	135
74AUP2G16	148	74CB3Q3257	176	74HC3G14-Q100	141	74HC245-Q100	127	74HC4852	175
74AUP2G17	148	74CB3Q3257-Q100	136	74HC3G16	149	74HC251	170	74HC4852-Q100	135
74AUP2G17	161	74CBTLV1G125	176	74HC3G34	149	74HC251-Q100	133	74HC7014	149
74AUP2G32	157	74CBTLV3125	176	74HC3G34-Q100	138	74HC253	170	74HC7014	162
74AUP2G34	148	74CBTLV3125-Q100	136	74HC3GU04	149	74HC253-Q100	133	74HC7014-Q100	129
74AUP2G38	156	74CBTLV3126	176	74HC3GU04-Q100	137	74HC257	170	74HC7540	149
74AUP2G57	160	74CBTLV3126-Q100	136	74HC03-Q100	128	74HC257-Q100	133	74HC7540	162
74AUP2G57-Q100	139	74CBTLV3244	176	74HC04	148	74HC259	166	74HC7541	149
74AUP2G58	160	74CBTLV3244-Q100	136	74HC04-Q100	126	74HC259-Q100	130	74HC7541	162
74AUP2G58	161	74CBTLV3245	176	74HC05	148	74HC273	164	74HC7541-Q100	129
74AUP2G79	164	74CBTLV3245-Q100	136	74HC05-Q100	126	74HC273-Q100	130	74HC9114	149
74AUP2G79-Q100	142	74CBTLV3253	176	74HC08	155	74HC280	171	74HC9114	162
74AUP2G80	164	74CBTLV3253-Q100	136	74HC08-Q100	128	74HC299	167	74HC9115	149
74AUP2G86	159	74CBTLV3257	176	74HC10	156	74HC299-Q100	131	74HC9115	162
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74LVC16241A.....	150	74LVTH16245B-Q100.....	130	BAS70-05W.....	60	BAV74.....	53	BC816-25H.....	24
74LVC16244A.....	150	74VHC02.....	158	BAS70-06.....	60	BAV99 (-Q)	54	BC816-25W.....	20
74LVC16244A-Q100.....	127	74VHC08.....	155	BAS70-06W.....	60	BAV99QA.....	54	BC817-16 (-Q).....	20
74LVC16245A.....	153	74VHC14.....	152	BAS70-07.....	60	BAV99QC (-Q)	54	BC817-16QB (-Q).....	20
		74VHC14.....	163			BAV99S.....	54		
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BC817-16W (-Q)	20	BC856BQC (-Q)	21	BCV49 (-Q)	27	BSP51 (-Q)	27	BUK7K45-100E	94
BC817-25 (-Q)	20	BC856BS	22	BCV61/A/B/C	28	BSP52 (-Q)	27	BUK7K52-60E	92
BC817-25QB (-Q)	20	BC856BSH-Q	24	BCV62/A/B/C	28	BSP60	27	BUK7K89-100E	94
BC817-25QC (-Q)	20	BC856BW	21	BCV63 / B	27	BSP61	27	BUK7K134-100E	94
BC817-25W (-Q)	20	BC856 (-Q)	21	BCV64B	27	BSP62 (-Q)	27	BUK7M3R3-40H	90
BC817-40 (-Q)	20	BC856S	22	BCV65	29	BSR14	23	BUK7M4R3-40H	90
BC817-40QB (-Q)	20	BC856SH-Q	24	BCV71 (-Q)	20	BSR16	23	BUK7M5R0-40H	90
BC817-40QC (-Q)	20	BC857AMB	21	BCV72 (-Q)	20	BSSR30 (-Q) / 31 (-Q)	24	BUK7M6R0-40H	90
BC817-40W (-Q)	20	BC857A (-Q)	21	BCW29	21	BSR33 (-Q)	24	BUK7M6R3-40E	90
BC817DPN	22	BC857AQB (-Q)	21	BCW30	21	BSR41(-Q)	24	BUK7M6R7-40H	90
BC817DS	22	BC857AQC (-Q)	21	BCW31	20	BSR43 (-Q)	24	BUK7M8R0-40E	90
BC817K-16	22	BC857AW (-Q)	21	BCW32	20	BSS63 (-Q)	21	BUK7M8R5-40H	90
BC817K-16H	24	BC857BMB	21	BCW33	20	BSS63 (-Q)	25	BUK7M9R5-40H	90
BC817K-25	22	BC857B (-Q)	21	BCW60B	20	BSS84AK	98	BUK7M9R9-60E	92
BC817K-25H	24	BC857BQB (-Q)	21	BCW60C	20	BSS84AK	115	BUK7M10-40E	90
BC817K-40	22	BC857BQC (-Q)	21	BCW60D	20	BSS84AKM	108	BUK7M11-40H	90
BC817 (-Q)	20	BC857BSH-Q	24	BCW61B	21	BSS84AKM	115	BUK7M12-40E	90
BC817RA	22	BC857BS (-Q)	22	BCW61C	21	BSS84AKMB	108	BUK7M12-60E	92
BC817RAPN	22	BC857BW (-Q)	21	BCW61D	21	BSS84AKMB	115	BUK7M15-40H	90
BC817W (-Q)	20	BC857C (-Q)	21	BCW66F	20	BSS84AKQB	98	BUK7M15-60E	92
BC846A (-Q)	20	BC857CQB (-Q)	21	BCW66G	20	BSS84AKS	98	BUK7M17-80E	93
BC846AQB (-Q)	20	BC857CQC (-Q)	21	BCW66H	20	BSS84AKS	116	BUK7M19-60E	92
BC846AQC (-Q)	20	BC857CW (-Q)	21	BCW68F	21	BSS84AKW	98	BUK7M20-40H	90
BC846AW (-Q)	20	BC857 (-Q)	21	BCW68G	21	BSS84AKW	115	BUK7M21-40E	90
BC846BMB	20	BC857QAS	22	BCW68H	21	BSS138AKA	98	BUK7M22-80E	93
BC846BMB	20	BC857RA	22	BCW70	21	BSS138BK	98	BUK7M27-80E	93
BC846BMB	20	BC857W (-Q)	21	BCW71	20	BSS138BKS	98	BUK7M33-60E	92
BC846BPNH-Q	24	BC858B (-Q)	21	BCW72	20	BSS138BKW	98	BUK7M42-60E	92
BC846BPN (-Q)	22	BC858BW (-Q)	21	BCW89	21	BSS138P	98	BUK7M45-40E	90
BC846B (-Q)	20	BC859B	27	BCX17	21	BSS138PS	98	BUK7M67-60E	92
BC846BQC (-Q)	20	BC859BW	27	BCX18	21	BSS138PW	98	BUK7S0R5-40H	89
BC846BQC (-Q)	20	BC859C	27	BCX19	20	BST39	25	BUK7S0R7-40H	89
BC846BS	22	BC859CW	27	BCX51 / -10 / -16	20	BST50	27	BUK7S1R0-40H	89
BC846BSH-Q	24	BC860B	27	BCX51T / -10T / -16T	24	BST51	27	BUK7S1R2-40H	89
BC846BW (-Q)	20	BC860BW	27	BCX52 / -10 / -16	24	BST52	27	BUK7S1R5-40H	89
BC846DS	22	BC860C	27	BCX52T / -10T / -16T	24	BST60 (-Q)	27	BUK7S2R0-40H	89
BC846 (-Q)	20	BC860CW	27	BCX53 / -10 / -16	24	BST61	27	BUK7S2R5-40H	89
BC846S	22	BC868 (-Q) / -25 (-Q)	24	BCX53T / -10T / -16T	24	BST62	27	BUK7S4R5-80L	93
BC846SH-Q	24	BC869 / -16 / -25	24	BCX54 (-Q) / -10 (-Q) / -16 (-Q)	24	BUK4D16-20	97	BUK7V4R2-40H	90
BC846W (-Q)	20	BCM53DS	28	BCX54T / -10T / -16T	24	BUK4D38-20P	97	BUK7Y0R9-40N	89
BC847AMB	20	BCM56DS	28	BCX55 (-Q) / -10 (-Q) / -16 (-Q)	24	BUK4D60-30	97	BUK7Y1R4-40H	89
BC847A (-Q)	20	BCM61B	28	BCX55T / -10T / -16T	24	BUK4D110-20P	97	BUK7Y1R7-40H	89
BC847AQB (-Q)	20	BCM62B	28	BCX56 / -10 / -16	24	BUK6D22-30E	97	BUK7Y2R0-40H	89
BC847AQC (-Q)	20	BCM846BS	28	BCX56T / -10T / -16T	24	BUK6D23-40E	97	BUK7Y2R5-40H	89
BC847AW (-Q)	20	BCM846BSH-Q	24	BCX70G	20	BUK6D30-40E	97	BUK7Y3R0-40H	89
BC847BMB	20	BCM847BS	28	BCX70H	20	BUK6D38-30E	97	BUK7Y3R5-40E	89
BC847BPNH-Q	24	BCM847BSH-Q	24	BCX70J	20	BUK6D43-40P	97	BUK7Y3R5-40H	89
BC847BPN (-Q)	22	BCM847DS	28	BCX70K	20	BUK6D43-60E	97	BUK7Y4R4-40E	91
BC847B (-Q)	20	BCM847QAS	28	BCX70L	21	BUK6D56-60E	97	BUK7Y4R8-60E	91
BC847BQB (-Q)	20	BCM856BS	28	BCX71H	21	BUK6D72-30E	97	BUK7Y6R0-60E	91
BC847BQC (-Q)	20	BCM856BSH-Q	24	BCX71J	21	BUK6D77-60E	97	BUK7Y7R0-40H	89
BC847BS	22	BCM856DS	28	BCX71K	21	BUK6D81-80E	97	BUK7Y7R2-60E	91
BC847BSH-Q	24	BCM857BS	28	BF550	29	BUK6D120-40E	97	BUK7Y7R8-80E	93
BC847BW (-Q)	20	BCM857BSH-Q	24	BF570	29	BUK6D120-60P	97	BUK7Y8R7-60E	91
BC847CMB	20	BCM857DS	28	BF620 (-Q)	25	BUK6D125-60E	97	BUK7Y9R9-80E	93
BC847C (-Q)	20	BCM857QAS	28	BF621	25	BUK6D210-60E	97	BUK7Y12-40E	89
BC847CQB (-Q)	20	BCP51 / -10 / -16	24	BF622 (-Q)	25	BUK6D230-80E	97	BUK7Y12-100E	94
BC847CQC (-Q)	20	BCP51T / -10T / -16T	24	BF623	25	BUK6D335-100E	97	BUK7Y14-80E	93
BC847CW (-Q)	20	BCP52 / -10 / -16	24	BF720	25	BUK6Y10-30P	95	BUK7Y15-60E	91
BC847DS	22	BCP52T / -10T / -16T	24	BF722 (-Q)	25	BUK6Y14-40P	95	BUK7Y19-100E	94
BC847 (-Q)	20	BCP53 / -10 / -16	24	BF723 (-Q)	25	BUK6Y19-30P	95	BUK7Y21-40E	89
BC847QAPN	22	BCP53-10H	24	BF820(-Q)	25	BUK6Y24-40P	95	BUK7Y22-100E	94
BC847QAS	22	BCP53-16H	24	BF821 (-Q)	25	BUK6Y33-60P	95	BUK7Y25-60E	91
BC847RA	22	BCP53H	24	BF822(-Q)	25	BUK6Y61-60P	95	BUK7Y25-80E	93
BC847RAPN	22	BCP53T / -10T / -16T	24	BF823	25	BUK7D25-40E	97	BUK7Y29-40E	89
BC847W (-Q)	20	BCP54 (-Q) / -10 (-Q) / -16 (-Q)	24	BF824	29	BUK7D36-60E	97	BUK7Y38-100E	94
BC848B	20	BCP54T / -10T / -16T	24	BF824W	29	BUK7J1R0-40H	89	BUK7Y41-80E	93
BC848W	20	BCP55 (-Q) / -10 (-Q) / -16 (-Q)	24	BF840	29	BUK7J1R4-40H	89	BUK7Y43-60E	91
BC849B	27	BCP55T / -10T / -16T	24	BFS19	29	BUK7K5R1-30E	88	BUK7Y59-60E	91
BC849BW	27	BCP56-10H	24	BFS20	29	BUK7K5R6-30E	88	BUK7Y65-100E	94
BC849C	27	BCP56-16H	24	BFS20W	29	BUK7K6R2-40E	90	BUK7Y72-80E	93
BC849CW	27	BCP56H	24	BSH103BK	113	BUK7K6R8-40E	90	BUK7Y98-80E	93
BC850B	27	BCP56 (-Q) / -10 (-Q)	24	BSH111BK	113	BUK7K8R7-40E	90	BUK7Y113-100E	94
BC850BW	27	BCP56T(-Q) /	24	BSH205G2	97	BUK7K12-60E	92	BUK7Y153-100E	94
BC850C	27	BCP68 (-Q) / -25 (-Q)	24	BSH205G2	115	BUK7K13-60E	92	BUK9D23-40E	97
BC850CW	27	BCP69 / -16 / -25 (-Q)	24	BSH205G2A	97	BUK7K15-80E	93	BUK9J0R9-40H	89
BC856A (-Q)	21	BCV26	27	BSN20BK	113	BUK7K17-60E	92	BUK9K5R1-30E	88
BC856AQB (-Q)	21	BCV27 (-Q)	27	BSP19	25	BUK7K17-80E	93	BUK9K5R6-30E	88
BC856AQC (-Q)	21	BCV28	27	BSP31	24	BUK7K18-40E	90	BUK9K6R2-40E	90
BC856AW (-Q)	21	BCV29	27	BSP32 / 33	24	BUK7K23-80E	93	BUK9K6R8-40E	90
BC856BMB	21	BCV46 (-Q)	27	BSP41	24	BUK7K25-40E	90	BUK9K8R7-40E	90
BC856B (-Q)	21	BCV47 (-Q)	27	BSP43	24	BUK7K29-100E	94	BUK9K12-60E	92
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BUK9K89-100E.....	94	BUK763R8-80E.....	93	GAN063-650WSA.....	123	HEF40244B.....	152	NCA9539.....	177
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BUK9M5R0-40H.....	90	BUK764R0-100E.....	94	GAN140-650FBE.....	123	IP3319CX6.....	186	NCA9595.....	177
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BUK9M6R6-30E.....	88	BUK768R3-60E.....	91	HEF4001B.....	158	IP4252CZ16-8-TTL.....	81	NCR320U.....	26
BUK9M6R7-40H.....	90	BUK961R6-40E.....	89	HEF4007UB.....	160	IP4254C28-4-TTL.....	81	NCR320Z.....	26
BUK9M7R2-40E.....	90	BUK962R5-60E.....	91	HEF4011B.....	157	IP4254CZ16-8-TTL.....	81	NCR321PAS.....	26
BUK9M8R5-40H.....	90	BUK963R3-60E.....	91	HEF4013B.....	165	IP4283CZ10-TBR.....	76	NCR321U.....	26
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BUK9M10-30E.....	88	BUK966R5-60E.....	91	HEF4014B-Q100.....	131	LSF0101-Q100.....	144	NCR401U.....	26
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BUK9M11-40H.....	90	BUK969R3-100E.....	94	HEF4016B.....	175	LSF0102-Q100.....	144	NCR402U.....	26
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BUK9M24-60E.....	92	BUK9880-55A/CU.....	92	HEF4040B.....	168	MJD42C(-Q).....	25	NHDTA114YT.....	40
BUK9M28-80E.....	93	BUK78150-55A/CU.....	92	HEF4040B-Q100.....	132	MJD44H1.....	25	NHDTA114YU.....	40
BUK9M31-60EL.....	92	BUK98150-55A/CU.....	92	HEF4043B.....	166	MJD44H1A.....	25	NHDTA123JT.....	40
BUK9M34-100E.....	95	BUK98180-100A/CU.....	95	HEF4043B-Q100.....	130	MJD45H1.....	25	NHDTA123JU.....	40
BUK9M35-80E.....	93	BXX9Q14-80A.....	93	HEF4046B.....	171	MJD45H1A.....	25	NHDTA124ET.....	40
BUK9M42-60E.....	92	BXX9Q16-80A.....	93	HEF4047B.....	171	MJD148(-Q).....	25	NHDTA124EU.....	40
BUK9M43-100E.....	95	BXX9Q16-100A.....	95	HEF4047B-Q100.....	134	MJD2873(-Q).....	25	NHDTA143ZT.....	40
BUK9M52-40E.....	90	BXX9Q22-80A.....	93	HEF4049B.....	152	MM3Z series.....	48	NHDTA143ZU.....	40
BUK9M53-60E.....	92	BXX9Q22-100A.....	95	HEF4049B-Q100.....	127	MM5Z series.....	48	NHDTA144ET.....	40
BUK9M67-60EL.....	92	BXX9Q27-80A.....	93	HEF4050B.....	152	MMBT2222A.....	23	NHDTA144EU.....	40
BUK9M85-60E.....	92	BXX9Q29-60A.....	92	HEF4050B-Q100.....	127	MMBT3904.....	23	NHDTA144EU.....	40
BUK9M120-100E.....	95	BXX9Q33-80A.....	93	HEF4051B.....	175	MMBT3906.....	23	NHDTA144EU.....	40
BUK9M156-100E.....	95	BXX9Q33-100A.....	95	HEF4051B-Q100.....	135	MMBZ5V6AL.....	73	NHDTA144EU.....	40
BUK9Y13-40H.....	90	BXX9Q44-80A.....	93	HEF4052B.....	175	MMBZ5V6AL.....	83	NHDTA144EU.....	40
BUK9Y1R3-40H.....	89	BXX9Q46-100A.....	95	HEF4052B-Q100.....	135	MMBZ6V2AL.....	73	NHDTA144EU.....	40
BUK9Y1R6-40H.....	89	BXX9Q55-100A.....	95	HEF4053B.....	175	MMBZ6V2AL.....	83	NHDTA144EU.....	40
BUK9Y1R9-40H.....	89	BXX929-100A.....	95	HEF4053B-Q100.....	135	MMBZ6V8AL.....	73	NHDTA144EU.....	40
BUK9Y2R4-40H.....	89	BZA408B.....	80	HEF4066B.....	168	MMBZ6V8AL.....	83	NHDTA144EU.....	40
BUK9Y2R8-40H.....	89	BZA420A.....	80	HEF4066B-Q100.....	132	MMBZ9V1AL.....	73	NHDTA143ZT.....	40
BUK9Y3R0-40E.....	89	BZA456A.....	80	HEF4066B-Q100.....	135	MMBZ9V1AL.....	83	NHDTA143ZU.....	40
BUK9Y3R5-40E.....	89	BZA856A.....	80	HEF4066B-Q100.....	135	MMBZ10VAL.....	73	NHDTA144ET.....	40
BUK9Y4R4-40E.....	89	BZB84 series.....	48	HEF4067B.....	175	MMBZ10VAL.....	83	NHDTA144EU.....	40
BUK9Y4R8-60E.....	91	BZT52H-A (-Q) series.....	49	HEF4067B-Q100.....	135	MMBZ12VAL.....	73	NHDTA144EU.....	40
BUK9Y6R0-60E.....	91	BZX84-A (-Q) series.....	49	HEF4069UB.....	152	MMBZ12VAL.....	83	NHUMB1.....	40
BUK9Y6R5-40H.....	89	BZX84-Q series.....	48	HEF4069UB-Q100.....	127	MMBZ12VDL.....	73	NHUMB2.....	40
BUK9Y7R0-60EL.....	91	BZX84 series.....	48	HEF4070B.....	159	MMBZ12VDL.....	83	NHUMB9.....	40
BUK9Y7R2-60E.....	91	BZX384-A (-Q) series.....	49	HEF4071B.....	157	MMBZ15VAL.....	73	NHUMB10.....	40
BUK9Y7R6-40E.....	89	BZX384-Q series.....	48	HEF4073B.....	155	MMBZ15VAL.....	83	NHUMB11.....	40
BUK9Y8R5-80E.....	93	BZX384 series.....	48	HEF4077B.....	159	MMBZ15VDL.....	73	NHUMB13.....	40
BUK9Y8R7-60E.....	91	BZX585 series.....	48	HEF4081B.....	155	MMBZ15VDL.....	83	NHUMD2.....	40
BUK9Y8R8-60EL.....	91	BZX884S-Q series.....	48	HEF4082B.....	155	MMBZ16VAL.....	73	NHUMD3.....	40
BUK9Y11-80E.....	93	BZX884S series.....	48	HEF4093B.....	156	MMBZ16VAL.....	83	NHUMD9.....	40
BUK9Y12-40E.....	89	BZX8450-Q series.....	48	HEF4093B-Q100.....	129	MMBZ16VAL.....	73	NHUMD10.....	40
BUK9Y12-100E.....	94	BZX8450 series.....	48	HEF4094B.....	167	MMBZ16VVAL.....	83	NHUMD12.....	40
BUK9Y13-60EL.....	91	BZX8850S-Q series.....	48	HEF4094B-Q100.....	131	MMBZ16VVAL.....	83	NHUMD13.....	40
BUK9Y14-80E.....	93	BZX8850S series.....	48	HEF4104B.....	172	MMBZ18VAL.....	73	NHUMH1.....	40
BUK9Y15-100E.....	94	BZX38450-Q series.....	48	HEF4104B-Q100.....	134	MMBZ18VCL.....	73	NHUMH2.....	40
BUK9Y19-100E.....	94	BZX38450 series.....	48	HEF4518B.....	168	MMBZ18VCL.....	83	NHUMH9.....	40
BUK9Y21-40E.....	89	BZX58550-Q series.....	48	HEF4520B.....	168	MMBZ20VAL.....	73	NHUMH10.....	40
BUK9Y22-60EL.....	91	BZX58550 series.....	48	HEF4520B-Q100.....	132	MMBZ20VAL.....	83	NHUMH11.....	40
BUK9Y25-60E.....	91	CBT3245A-Q100.....	136	HEF4521B.....	168	MMBZ20VCL.....	73	NHUMH13.....	40
BUK9Y25-80E.....	93	CBT3251.....	176	HEF4528B.....	171	MMBZ20VCL.....	83	NMB2227A.....	23
		CBT3253.....	176			MMBZ20VCL.....	83	NPN / NPN.....	40
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NUP1301U	75	PBHV2160Z	36	PBSS303NX	30	PBSS4330PA	30	PCMF1USB3BA/C	81
NX138AK	113	PBHV3160Z	36	PBSS303NZ	32	PBSS4330PAS (-Q) ²⁾	30	PCMF1USB3B/C	81
NX138AKH	108	PBHV8115TLH	36	PBSS303PD (-Q)	32	PBSS4330X	30	PCMF1USB3S	81
NX138AKM	108	PBHV8115T (-Q)	36	PBSS303PX	32	PBSS4350D (-Q)	30	PCMF2HDMI2BA-C	81
NX138AKM	113	PBHV8115X	36	PBSS303PZ	32	PBSS4350T (-Q)	31	PCMF2HDMI2BA-C	186
NX138AKS	116	PBHV8115Z	36	PBSS304ND	30	PBSS4350X	30	PCMF2HDMI2S	81
NX138BK	113	PBHV8118T	36	PBSS304NX	30	PBSS4350Z (-Q)	30	PCMF2USB3BA/C	81
NX138BKH	108	PBHV8140Z (-Q)	36	PBSS304NZ	32	PBSS4360PAS (-Q) ²⁾	30	PCMF2USB3B/C	81
NX138BKM	108	PBHV8215Z	36	PBSS304PD	30	PBSS4360X	30	PCMF2USB3S	81
NX138BKM	113	PBHV8515QA	36	PBSS304PX	32	PBSS4360Z	30	PCMF3HDMI2BA-C	81
NX138BKS	116	PBHV8540T (-Q)	36	PBSS304PZ	32	PBSS4480X	30	PCMF3HDMI2BA-C	186
NX138BKW	113	PBHV8540X	36	PBSS304PD	30	PBSS4520X	30	PCMF3HDMI2S	81
NX2301P	97	PBHV8540Z (-Q)	36	PBSS305ND	30	PBSS4540X	30	PCMF3USB3BA/C	81
NX2301P	115	PBHV8550X	36	PBSS305NX	30	PBSS4540Z	30	PCMF3USB3B/C	81
NX3008CBKS	98	PBHV8560Z	36	PBSS305NZ	32	PBSS4560PA	30	PCMF3USB3S	81
NX3008CBKS	116	PBHV9040T (-Q)	36	PBSS305PD	30	PBSS4580PA	30	PDTA113EMB	39
NX3008NBK	98	PBHV9040X	36	PBSS305PX	32	PBSS4620PA	30	PDTA113ET	39
NX3008NBK	113	PBHV9040Z	36	PBSS305PZ	32	PBSS4630PA	30	PDTA113EU	39
NX3008NBKS	98	PBHV9050T (-Q)	36	PBSS306NZ	30	PBSS5112PAP	34	PDTA113ZMB	39
NX3008NBKS	116	PBHV9050Z	36	PBSS306PX	32	PBSS5120T	33	PDTA113ZT	39
NX3008NBKW	98	PBHV9115TLH	36	PBSS306PZ	32	PBSS5130PAP (-Q)	34	PDTA113ZU	39
NX3008NBKW	113	PBHV9115T (-Q)	36	PBSS52515MB	31	PBSS5130T	33	PDTA114EMB	39
NX3008PBK	98	PBHV9115X	36	PBSS2515YPN (-Q)	34	PBSS5140T (-Q)	33	PDTA114EQB (-Q)	39
NX3008PBK	115	PBHV9115Z	36	PBSS2540MB	31	PBSS5140U	33	PDTA114EQC (-Q)	39
NX3008PBKS	98	PBHV9215Z (-Q)	36	PBSS3515MB	33	PBSS5160DS (-Q)	34	PDTA114ET (-Q)	39
NX3008PBKS	116	PBHV9414Z	36	PBSS3540MB	33	PBSS5160PAP	34	PDTA114EU (-Q)	39
NX3008PBKW	98	PBHV9515QA	36	PBSS4021NT	31	PBSS5160PAPS	34	PDTA114TMB	39
NX3008PBKW	115	PBHV9540X	36	PBSS4021NX	30	PBSS5160QA	33	PDTA114TT	39
NX3020NAK	113	PBHV9540Z	36	PBSS4021NZ	30	PBSS5160T (-Q)	33	PDTA114TU	39
NX3020NAKS	116	PBHV9560Z	36	PBSS4021PT (-Q)	33	PBSS5160U	33	PDTA114YMB	39
NX3020NAKW	113	PBLS1501Y	35	PBSS4021PX	32	PBSS5220PAPS (-Q)	34	PDTA114YQB (-Q)	39
NX5008NBKH	108	PBLS1502Y	35	PBSS4021PZ	32	PBSS5220T (-Q)	34	PDTA114YQC (-Q)	39
NX5008NBKM	108	PBLS1503Y	35	PBSS4032ND ³⁾	30	PBSS5230PAP	33	PDTA114YT (-Q)	39
NX5008NBKM	113	PBLS1504Y (-Q)	35	PBSS4032NT ³⁾	31	PBSS5230T (-Q)	33	PDTA114YU (-Q)	39
NX6008NBK	113	PBLS2001D	35	PBSS4032NX ³⁾	30	PBSS5240T (-Q)	33	PDTA115EMB	39
NX6008NBKS	116	PBLS2002D	35	PBSS4032NZ ³⁾	30	PBSS5240X	32	PDTA115ET	39
NX6008NBKW	113	PBLS2003D	35	PBSS4032PD ³⁾	32	PBSS5240Y	33	PDTA115EU	39
NX6020CAKS	116	PBLS2004D	35	PBSS4032PT ³⁾	33	PBSS5250T	33	PDTA115TMB	39
NX7002AK	113	PBLS2021D	35	PBSS4032PX ³⁾	32	PBSS5250TH (-Q)	33	PDTA115TT	39
NX7002AKS	116	PBLS2022D	35	PBSS4032PZ ³⁾	32	PBSS5250X	32	PDTA115TU	39
NX7002AKW	113	PBLS2023D	35	PBSS4041NT (-Q)	31	PBSS5255PAPS (-Q)	34	PDTA123EMB	39
NX7002BK	113	PBLS2024D	35	PBSS4041NX	30	PBSS5260PAP	34	PDTA123ET	39
NX7002BKH	108	PBLS4001D	35	PBSS4041NZ (-Q)	30	PBSS5260PAPS	34	PDTA123EU	39
NX7002BKM	108	PBLS4001Y	35	PBSS4041PT (-Q)	33	PBSS5260QA	33	PDTA123JMB	39
NX7002BKM	113	PBLS4002D	35	PBSS4041PX	32	PBSS5320D	32	PDTA123JQB (-Q)	39
NX7002BKMB	108	PBLS4002Y (-Q)	35	PBSS4041PZ (-Q)	32	PBSS5320T (-Q)	33	PDTA123JQC (-Q)	39
NX7002BKS	116	PBLS4003D	35	PBSS4112PAN	34	PBSS5320X	32	PDTA123JT (-Q)	39
NX7002BKW	113	PBLS4003Y (-Q)	35	PBSS4112PANP	34	PBSS5330PA	32	PDTA123JU (-Q)	39
NX7002BKX	109	PBLS4004D	35	PBSS4120T	31	PBSS5330PAS ²⁾	32	PDTA123TMB	39
NX7002BKXB	116	PBLS4004Y	35	PBSS4130PAN	34	PBSS5330X	32	PDTA123TT	39
NX7002BKXB	116	PBLS4005D	35	PBSS4130PANP	34	PBSS5350D (-Q)	32	PDTA123TU	39
NXB0101	174	PBLS4005Y (-Q)	35	PBSS4130QA	31	PBSS5350TH	33	PDTA123YMB	39
NXB0101-Q100	144	PBLS6001D	35	PBSS4130T	31	PBSS5350T (-Q)	33	PDTA123YT	39
NXB0102	174	PBLS6002D (-Q)	35	PBSS4140DPN (-Q)	34	PBSS5350X	32	PDTA123YU	39
NXB0102-Q100	144	PBLS6003D (-Q)	35	PBSS4140T (-Q)	31	PBSS5350Z (-Q)	32	PDTA124EMB	39
NXB0102UN	186	PBLS6004D	35	PBSS4140U	31	PBSS5360PAS (-Q) ²⁾	32	PDTA124EQB (-Q)	39
NXB0104	174	PBLS6005D	35	PBSS4160DPN	34	PBSS5360X	32	PDTA124EQC (-Q)	39
NXB0104-Q100	134	PBLS6021D	35	PBSS4160DS (-Q)	34	PBSS5360Z (-Q)	32	PDTA124ET (-Q)	39
NXB0106	174	PBLS6022D	35	PBSS4160PAN	34	PBSS5480X	32	PDTA124EU (-Q)	39
NXB0106-Q100	134	PBLS6023D	35	PBSS4160PANP (-Q)	34	PBSS5520X	32	PDTA124TMB	39
NXB0108	174	PBLS6024D (-Q)	35	PBSS4160PANPS	34	PBSS5540X	32	PDTA124TT	39
NXB0108-Q100	134	PBRN113ET (-Q)	41	PBSS4160PANS	34	PBSS5540Z (-Q)	32	PDTA124TU	39
NXS0101	174	PBRN113ZT (-Q)	41	PBSS4160QA (-Q)	31	PBSS5560PA	32	PDTA124XMB	39
NXS0101-Q100	144	PBRN123ET (-Q)	41	PBSS4160T (-Q)	31	PBSS5580PA	32	PDTA124XQC (-Q)	39
NXS0102	174	PBRN123YT (-Q)	41	PBSS4160U	31	PBSS5620PA	32	PDTA124XT	39
NXS0102-Q100	144	PBRP113ET (-Q)	41	PBSS4160X	30	PBSS5630PA	32	PDTA124XU	39
NXS0102UN	186	PBRP113ZT (-Q)	41	PBSS4220PANS	34	PBSS8110D	30	PDTA143EMB	39
NXS0104	174	PBRP123ET (-Q)	41	PBSS4230PAN	34	PBSS8110T (-Q)	31	PDTA143EQB (-Q)	39
NXS0104-Q100	134	PBRP123YT (-Q)	41	PBSS4230PANP	34	PBSS8110X	30	PDTA143EQC (-Q)	39
NXS0104UM	186	PBSM5240PF	36	PBSS4230QA	31	PBSS8110Y	31	PDTA143ET (-Q)	39
NXS0108	174	PBSM5240PFH	36	PBSS4230T	31	PBSS8110Z	30	PDTA143EU (-Q)	39
NXS0108-Q100	134	PBSS301ND PBSS4420D (-Q)	30	PBSS4240DPN	34	PBSS8510PA	30	PDTA143TMB	39
NXS0506	174	PBSS301NX	30	PBSS4240T (-Q)	31	PBSS9110D	32	PDTA143TT	39
NXS0506UP	186	PBSS301NZ	30	PBSS4240X	30	PBSS9110T (-Q)	33	PDTA143TU	39
NXT4556	174	PBSS301PD PBSS5420D	32	PBSS4240Y	31	PBSS9110X	32	PDTA143XMB	39
NXT4556UP	186	PBSS301PX	32	PBSS4250X	30	PBSS9110Y	33	PDTA143XQB (-Q)	39
NXT4557	174	PBSS301PZ	32	PBSS4260PAN	34	PBSS9110Z	32	PDTA143XQC (-Q)	39
NXV40UN	113	PBSS302ND	30	PBSS4260PANP	34	PBSS9410PA	32	PDTA143XT	39
NXV50UN	113	PBSS302NX	30	PBSS4260PANPS	34	PCA9535	177	PDTA143XU	39
NXV55UN	113	PBSS302NZ (-Q)	30	PBSS4260PANS (-Q)	34	PCA9539	177	PDTA143ZMB	39
NXV65UP	115	PBSS302PD	32	PBSS4260QA	31	PCA9555	177	PDTA143ZQB (-Q)	39
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PDTA144EQC (-Q)	39	PDTC143EU (-Q)	38	PESD2CANFD36UT-Q	70	PESD4USB5U-TBS	72	PESD5V0V1BCSF	78
PDTA144ET (-Q)	39	PDTC143TMB	38	PESD2CANFD36UU-Q	70	PESD4USB5U-TTS	72	PESD5V0V1BDSF	78
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PDTA144TT	39	PDTC143XMB	38	PESD2ETH1G-T	71	PESD4V0Y1BBSF	74	PESD5V0V1BLD-Q	73
PDTA144TU	39	PDTC143XQB (-Q)	38	PESD2ETH1GXT-Q	71	PESD4V0Y1BCSF	74	PESD5V0V1BLS	79
PDTA144VMB	39	PDTC143XQC (-Q)	38	PESD2ETH100-T	71	PESD4V0Y1BHSF	74	PESD5V0V1BSF	78
PDTA144VT	39	PDTC143XT	38	PESD2ETH-AD	71	PESD4V0Y1BSF	74	PESD5V0V2BM	80
PDTA144VU	39	PDTC143XU	38	PESD2ETH-AX	71	PESD4V0Z1BCSF	74	PESD5V0V2BMB	80
PDTA144WMB	39	PDTC143ZMB	38	PESD2ETH-D	71	PESD4V0Z1BSF	74	PESD5V0X1BCAL	75
PDTA144WT	39	PDTC143ZQB (-Q)	38	PESD2ETH-X	71	PESD4V0Z2BCDF	76	PESD5V0X1BCL	75
PDTA144WU	39	PDTC143ZQC (-Q)	38	PESD2IVN24T-Q	70	PESD5V0C1BLS-Q	72	PESD5V0X1BCSF	75
PDTB113EQA	41	PDTC144EMB	38	PESD2IVN24-U	70	PESD5V0C1BSF	74	PESD5V0X1BL	75
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PDTB113EU	41	PDTC144EQB (-Q)	38	PESD2IVN27-U	70	PESD5V0C1USF	74	PESD5V0X1UAB	74
PDTB113ZQA	41	PDTC144ET (-Q)	38	PESD2IVN48T-Q	70	PESD5V0C2BDF	76	PESD5V0X1UALD	74
PDTB113ZT	41	PDTC144EQC (-Q)	38	PESD2USB3B	81	PESD5V0C2UM	75	PESD5V0X1UB	74
PDTB113ZU	41	PDTC144EU (-Q)	38	PESD2USB3S	81	PESD5V0C2UM-Q	72	PESD5V0X1ULD	74
PDTB114EQA	41	PDTC144EU (-Q)	38	PESD2USB3UV-T	72	PESD5V0F1BL	71	PESD5V0X2UAMB	75
PDTB114ET	41	PDTC144TMB	38	PESD2USB3UX-T	72	PESD5V0F1BL	75	PESD5V0X2UAMB	75
PDTB114EU	41	PDTC144TT	38	PESD2USB5UV-T	72	PESD5V0F1BLD	71	PESD5V0X2UM	75
PDTB114EQA	41	PDTC144TU	38	PESD2USB5UX-T	72	PESD5V0F1BLD	75	PESD5V0X2UMB	75
PDTB114ET	41	PDTC144VMB	38	PESD2V0Y1BSF	74	PESD5V0F1BLD-Q	73	PESD5V0X2UT	74
PDTB114EU	41	PDTC144VT	38	PESD2V0Y1BXM	74	PESD5V0F1BRLD	75	PESD5V2S2UT	79
PDTB114EQA	41	PDTC144VU	38	PESD2V5X1BSF	74	PESD5V0F1BRLD-Q	73	PESD5V5C1BBSF	74
PDTB114ET	41	PDTC144WMB	38	PESD2V5Y1BSF	74	PESD5V0F1BRSF	75	PESD5V5C1BL	75
PDTB114EU	41	PDTC144WT	38	PESD2V8R1BSF	74	PESD5V0F1BSF	75	PESD5V5C1BL-Q	72
PDTB114EQA	41	PDTC144WU	38	PESD2V8Y1BSF	74	PESD5V0F1USF	74	PESD5V5C1BSF	74
PDTB114ET	41	PDTC144XQA	41	PESD3USB3B	81	PESD5V0F2UT	74	PESD5V5C1UL	74
PDTB114EU	41	PDTC144YU	41	PESD3USB3S	81	PESD5V0H1BSF	74	PESD5V5C1UL-Q	72
PDTB114EQA	41	PDTC144ZU	41	PESD3V3C1BSF	74	PESD5V0H1BSN	74	PESD5V5S1BSF	78
PDTB114ET	41	PDTC144ZU	41	PESD3V3F1BSF	74	PESD5V0L1BA	78	PESD5V5U1BCSF	78
PDTB114EU	41	PDTC144ZU	41	PESD3V3F2UT	74	PESD5V0L1BSF	78	PESD5V5V1BCSN	78
PDTB114EQA	41	PDTC144ZU	41	PESD3V3L1BA	78	PESD5V0L1BSL	79	PESD5Z2.5	77
PDTB114ET	41	PDTC144ZU	41	PESD3V3L1BBSF	78	PESD5V0L1UA	78	PESD5Z3.3	77
PDTB114EU	41	PDTC144ZU	41	PESD3V3L1BSF	78	PESD5V0L1UB	77	PESD5Z5.0	77
PDTB114EQA	41	PDTC144ZU	41	PESD3V3L1BSL	79	PESD5V0L1UL	77	PESD5Z6.0	77
PDTB114ET	41	PDTC144ZU	41	PESD3V3L1UB	77	PESD5V0L1ULD	77	PESD5Z7.0	77
PDTB114EU	41	PDTC144ZU	41	PESD3V3L1UL	77	PESD5V0L1USF	77	PESD5Z12	77
PDTB114EQA	41	PDTC144ZU	41	PESD3V3L2BT	79	PESD5V0L2BT	79	PESD6V0L2UU	79
PDTB114ET	41	PDTC144ZU	41	PESD3V3L2UM	79	PESD5V0L2UM	79	PESD6V3S1UL	77
PDTB114EU	41	PDTC144ZU	41	PESD3V3L4BHC	80	PESD5V0L2UMB	79	PESD6V5C1USF	74
PDTB114EQA	41	PDTC144ZU	41	PESD3V3L4UF	80	PESD5V0L2UU	79	PESD7V0C1BSF	74
PDTB114ET	41	PDTC144ZU	41	PESD3V3L4UG	80	PESD5V0L4UF	80	PESD7V0H1BSF	74
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PDTB114EQA	41	PDTC144ZU	41	PESD3V3L5UY	80	PESD5V0L5UF	80	PESD7V0R1BSF	74
PDTB114ET	41	PDTC144ZU	41	PESD3V3S1BL	78	PESD5V0L5UY	80	PESD8V0S1UL	77
PDTB114EU	41	PDTC144ZU	41	PESD3V3S1BSF	78	PESD5V0R1BCSF	74	PESD8V0S1ULD	77
PDTB114EQA	41	PDTC144ZU	41	PESD3V3S1UB	77	PESD5V0R1BDSF	74	PESD8V0S1ULS	77
PDTB114ET	41	PDTC144ZU	41	PESD3V3S1UL	77	PESD5V0R1BSF	74	PESD9V0C1BSF	75
PDTB114EU	41	PDTC144ZU	41	PESD3V3S2UAT	79	PESD5V0S1BA	79	PESD9V0W1BDSF	75
PDTB114EQA	41	PDTC144ZU	41	PESD3V3S2UT	79	PESD5V0S1BB	79	PESD9V0Z1BDSF	75
PDTB114ET	41	PDTC144ZU	41	PESD3V3S4UD	80	PESD5V0S1BL	79	PESD12VA-SF	78
PDTB114EU	41	PDTC144ZU	41	PESD3V3S4UF	80	PESD5V0S1BLD	79	PESD12VL1BA	78
PDTB114EQA	41	PDTC144ZU	41	PESD3V3S5UD	80	PESD5V0S1BLD-Q	73	PESD12VL1BSL	79
PDTB114ET	41	PDTC144ZU	41	PESD3V3T1BL	78	PESD5V0S1BSF	78	PESD12VL2BT	79
PDTB114EU	41	PDTC144ZU	41	PESD3V3T1BLD	79	PESD5V0S1UA	78	PESD12VS1UA	78
PDTB114EQA	41	PDTC144ZU	41	PESD3V3T1BLS	79	PESD5V0S1UB	77	PESD12VS1UB	77
PDTB114ET	41	PDTC144ZU	41	PESD3V3U1BCSF	78	PESD5V0S1UJ	77	PESD12VS1UJ	78
PDTB114EU	41	PDTC144ZU	41	PESD3V3U1UA	78	PESD5V0S1UL	77	PESD12VS1UL	77
PDTB114EQA	41	PDTC144ZU	41	PESD3V3U1UB	77	PESD5V0S1ULD	77	PESD12VS1ULD	77
PDTB114ET	41	PDTC144ZU	41	PESD3V3U1UL	77	PESD5V0S1ULS	77	PESD12VS1ULS	77
PDTB114EU	41	PDTC144ZU	41	PESD3V3U1UT	74	PESD5V0S1USF	77	PESD12VS2UT	79
PDTB114EQA	41	PDTC144ZU	41	PESD3V3V1BCSF	78	PESD5V0S2BQA	80	PESD12VS5UD	80
PDTB114ET	41	PDTC144ZU	41	PESD3V3V1BSL	78	PESD5V0S2BT	80	PESD12VU1UT	74
PDTB114EU	41	PDTC144ZU	41	PESD3V3W1BCSF	74	PESD5V0S2UAT	79	PESD12VU1BL	79
PDTB114EQA	41	PDTC144ZU	41	PESD3V3X1BCSF	75	PESD5V0S4UD	80	PESD12VU1BLS	79
PDTB114ET	41	PDTC144ZU	41	PESD3V3X1BL	75	PESD5V0S4UF	80	PESD12VW1BCSF	75
PDTB114EU	41	PDTC144ZU	41	PESD3V3X2UT	74	PESD5V0S5UD	80	PESD12VY1BSF	75
PDTB114EQA	41	PDTC144ZU	41	PESD3V3X4UHC	76	PESD5V0U1BA	79	PESD15VL1BA	78
PDTB114ET	41	PDTC144ZU	41	PESD3V3Y1BSF	74	PESD5V0U1BB	79	PESD15VL2BT	80
PDTB114EU	41	PDTC144ZU	41	PESD3V3Z1BCSF	74	PESD5V0U1BL	79	PESD15VS1UB	77
PDTB114EQA	41	PDTC144ZU	41	PESD3V3Z1BSF	74	PESD5V0U1BLD	79	PESD15VS1UL	77
PDTB114ET	41	PDTC144ZU	41	PESD4USB3BTR-Q	72	PESD5V0U1UA	77	PESD15VS1ULD	77
PDTB114EU	41	PDTC144ZU	41	PESD4USB3B-TBS	72	PESD5V0U1UB	77	PESD15VS1ULS	77
PDTB114EQA	41	PDTC144ZU	41	PESD4USB3B-TTS	72	PESD5V0U1UL	77	PESD15VS2UAT	79
PDTB114ET	41	PDTC144ZU	41	PESD4USB3UTBR-Q	72	PESD5V0U1UT	74	PESD15VS2UT	79
PDTB114EU	41	PDTC144ZU	41	PESD4USB3U-TBS	72	PESD5V0U2BM	80	PESD15VS5UD	80
PDTB114EQA	41	PDTC144ZU	41	PESD4USB3U-TTS	72	PESD5V0U2BMB	80	PESD15VU1UT	74
PDTB114ET	41	PDTC144ZU	41			PESD5V0U2BT	80	PESD15VW1ACSF	75
PDTB114EU	41	PDTC144ZU	41						

Types in **bold red** are in development, types in **bold** represent new products

Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number
PESD15VW1BCSF	75	PHPT610035NK	37	PMDPB56XNEA	97	PMEG100T20ELP (-Q) ¹⁾	64	PMEG3002EJ (-Q)	65
PESD15VW1UCSF	74	PHPT610035PK	28	PMDPB56XNEA	98	PMEG100T20ELR (-Q) ¹⁾	64	PMEG3002ESF	63
PESD15VY1BSF	75	PHPT610035PK	37	PMDPB56XNEA	111	PMEG100T20ELXD (-Q) ¹⁾	64	PMEG3005AESF	63
PESD16VV1BSF	78	PIMC31	41	PMDPB56XNEA	116	PMEG100T030ELPE (-Q) ¹⁾	64	PMEG3005CT	66
PESD18VF1BBL	75	PIMC32 (-Q)	41	PMDPB58UPE	111	PMEG100T30ELP (-Q) ¹⁾	64	PMEG3005EEF	63
PESD18VF1BBSF	75	PIMN31	41	PMDPB70XPE	111	PMEG100T30ELR (-Q) ¹⁾	64	PMEG3005EGW (-Q)	65
PESD18VF1BL-Q	73	PIMN32 (-Q)	41	PMDPB70XP	111	PMEG100T050ELPE (-Q) ¹⁾	64	PMEG3005EH (-Q)	65
PESD18VF1BLS-Q	73	PIMT1	41	PMDPB70XP	116	PMEG100T50ELP (-Q) ¹⁾	64	PMEG3005EJ (-Q)	65
PESD18VY1BBSF	78	PIMP31 (-Q)	41	PMDPB800XPE	111	PMEG100T080ELPE (-Q) ¹⁾	65	PMEG3005EL	63
PESD18VY1BBIF	75	PIMP32 (-Q)	41	PMDPB70XPE	111	PMEG100T100ELPE (-Q) ¹⁾	65	PMEG3005ELD	63
PESD24VF1BBL	75	PIMT1	22	PMDPB70XPE	116	PMEG100T120ELPE ¹⁾	65	PMEG3005ELS (-Q)	63
PESD24VF1BBSF	75	PIMZ2	22	PMDPB800X	111	PMEG100T150ELPE ¹⁾	65	PMEG3005ESF	63
PESD24VF1BBSF	75	PMBD353 PMBD354 ¹⁾	61	PMDPB800X	116	PMEG100T200ELPE ¹⁾	65	PMEG3005SET (-Q)	65
PESD24VF1BL-Q	73	PMB53904-Q	23	PMDPB85UPE	111	PMEG100V060ELPD	65	PMEG3010AESA	63
PESD24VF1BLS-Q	73	PMB53906	23	PMDPB85UPE	116	PMEG100V060EPE (-Q)	65	PMEG3010AESB	63
PESD24VL1BA	78	PMBT2222	23	PMDPB95XNE2	111	PMEG100V080ELPD	65	PMEG3010BEA (-Q)	65
PESD24VL2BT	80	PMBT2222A	23	PMDPB95XNE2	116	PMEG100V080EPE (-Q)	65	PMEG3010BEA(-Q)	66
PESD24V51UA	78	PMBT2222AMB	23	PMDXB290UNE	109	PMEG100V100ELPD	65	PMEG3010BER (-Q)	64
PESD24V51UB	77	PMBT2222AQA	23	PMDXB550UNE	109	PMEG100V100EPE (-Q)	65	PMEG3010BER (-Q)	64
PESD24V51UL	77	PMBT2222AYS-Q	23	PMDXB550UNE	116	PMEG120G10ELR (-Q)	59	PMEG3010CEH (-Q)	66
PESD24V51ULD	77	PMBT2369	23	PMDXB600UNE	109	PMEG120G20ELP (-Q)	59	PMEG3010CEJ (-Q)	66
PESD24V51ULS	77	PMBT2907	23	PMDXB600UNE	116	PMEG120G20ELR (-Q)	59	PMEG3010EB (-Q)	66
PESD24V52UAT	79	PMBT2907A	23	PMDXB600UNEL	109	PMEG120G30ELP (-Q)	59	PMEG3010EGW (-Q)	66
PESD24V52UT	79	PMBT2907AMB	23	PMDXB850UPE	109	PMEG150G10ELR (-Q)	59	PMEG3010EH	66
PESD24V54UD	80	PMBT2907AQA	23	PMDXB950UPEL	116	PMEG150G20ELP (-Q)	59	PMEG3010EP (-Q)	64
PESD24V55UD	80	PMBT2907AYS	23	PMDXB950UPEL	109	PMEG150G20ELR (-Q)	59	PMEG3010EP (-Q)	64
PESD24V51UT	74	PMBT3904AMB	23	PMDXB1200UPE	116	PMEG150G30ELP (-Q)	59	PMEG3010ER (-Q)	64
PESD24V41BA	78	PMBT3904Q	23	PMEG030V030EPD	64	PMEG150G30ELP (-Q)	59	PMEG3010ESB	63
PESD24V41BSF	75	PMBT3904QA	23	PMEG030V030EPE (-Q)	64	PMEG200G10ELR (-Q)	59	PMEG3010ET	66
PESD27V11BA	78	PMBT3904ARA	23	PMEG030V050EPD	64	PMEG200G20ELP (-Q)	59	PMEG3015EH (-Q)	66
PESD27V11BSF	75	PMBT3904YS (-Q)	23	PMEG030V050EPE (-Q)	64	PMEG200G30ELP (-Q)	59	PMEG3015EJ (-Q)	66
PESD27V11BL	78	PMBT3906	23	PMEG030V10ER (-Q) ¹⁾	64	PMEG200G30ELP (-Q)	59	PMEG3020BEP (-Q)	64
PESD27V11BSF	75	PMBT3906B	23	PMEG40T10ER (-Q) ¹⁾	64	PMEG1020EA	66	PMEG3020BER (-Q)	64
PESD27V12BT	80	PMBT3906GMB	23	PMEG40T20EP (-Q) ¹⁾	64	PMEG1020EA	66	PMEG3020CEP (-Q)	64
PESD30VF1BBL	75	PMBT3906YS	23	PMEG40T20ER (-Q) ¹⁾	64	PMEG1020EH (-Q)	66	PMEG3020CPA	66
PESD30VF1BL-Q	73	PMBT3946YPN	23	PMEG40T30EP (-Q) ¹⁾	64	PMEG1020EJ	66	PMEG3020CPAS	66
PESD30VF1BLS-Q	73	PMBT4401	23	PMEG40T30ER (-Q) ¹⁾	64	PMEG1030EH	66	PMEG3020DEP (-Q)	64
PESD30VF1BSF	75	PMBT4401YS	23	PMEG40T50EP (-Q) ¹⁾	64	PMEG1030EJ (-Q)	66	PMEG3020DHW (-Q)	66
PESD32VF1BLS-Q	73	PMBT4403	23	PMEG040V030EPD	64	PMEG2002AESF	63	PMEG3020EH (-Q)	66
PESD32VL1BA	78	PMBT4403YS	23	PMEG040V030EPE (-Q)	64	PMEG2002ESF	63	PMEG3020EJ (-Q)	66
PESD36V11BA	78	PMBT5550	25	PMEG040V050EPD	64	PMEG2005AEL	63	PMEG3020EPA	63
PESD36V11B	78	PMBT5551 (-Q) / BSR19A(-Q)	25	PMEG040V050EPE (-Q)	64	PMEG2005AELD	63	PMEG3020EPAS	63
PESD36V51UL	77	PMBT6428	20	PMEG45A10EPD	65	PMEG2005AESF	63	PMEG3020EP (-Q)	64
PESD36V51ULS	77	PMBT6429	20	PMEG45T10EXD (-Q) ¹⁾	65	PMEG2005BELD (-Q)	63	PMEG3020ER (-Q)	64
PESD36V52UT	79	PMBTA06 (-Q)	20	PMEG45T15EPD ¹⁾	65	PMEG2005CT (-Q)	66	PMEG3030BEP (-Q)	64
PESD42V52UT	79	PMBTA06 (-Q)	21	PMEG45T20EXD (-Q) ¹⁾	64	PMEG2005EGW (-Q)	65	PMEG3030BEP (-Q)	64
PESD48V2BT	80	PMBTA13	27	PMEG045T030EPD ¹⁾	64	PMEG2005EH (-Q)	65	PMEG3030EP (-Q)	64
PHB33NQ20T	105	PMBTA14	27	PMEG045T050EPD ¹⁾	64	PMEG2005EH (-Q)	65	PMEG3050BEP (-Q)	64
PHB45NQ15T	105	PMBTA42DS	25	PMEG045T100EPE (-Q) ¹⁾	65	PMEG2005EJ (-Q)	65	PMEG3050EP (-Q)	64
PHDM2AB4	76	PMBTA42	25	PMEG045T150EIPD ¹⁾	65	PMEG2005EL	63	PMEG4002AESF	63
PHDM2BB4	76	PMBTA42 (-Q)	25	PMEG045T150EIPD ¹⁾	65	PMEG2005ELD	63	PMEG4002EJ	65
PHDM2CB4	76	PMBTA44 (-Q)	25	PMEG045V050EPD	64	PMEG2005EPK	63	PMEG4002ELD	63
PHDM2FR4	76	PMBTA45	36	PMEG045V050EPE (-Q)	64	PMEG2005ESF	63	PMEG4002EL (-Q)	63
PHDM2FS4	76	PMBTA64	27	PMEG045V100EPE (-Q)	65	PMEG2005SET (-Q)	65	PMEG4002ESF	63
PHP18NQ11T	104	PMBTA92(-Q)	25	PMEG045V100EPD	65	PMEG2010AEB (-Q)	65	PMEG4005AESF	63
PHP20NQ20T	104	PMCA14UN	111	PMEG045V100EPE (-Q)	65	PMEG2010AEH (-Q)	65	PMEG4005CEJ	65
PHP23NQ11T	104	PMCB60XN	111	PMEG045V100EPD	65	PMEG2010AEJ	65	PMEG4005CT (-Q)	66
PHP28NQ15T	104	PMCB60XNE	111	PMEG050T150EIPD ¹⁾	65	PMEG2010AET	65	PMEG4005EGW (-Q)	65
PHP33NQ20T	104	PMCM950ENE	111	PMEG050T150EIPD ¹⁾	65	PMEG2010BELD (-Q)	63	PMEG4005EH (-Q)	65
PHPT60406NY	37	PMCM4401UNE	111	PMEG050V030EPD	64	PMEG2010BER (-Q)	64	PMEG4005EJ (-Q)	65
PHPT60406PY	37	PMCM4401UPE	111	PMEG050V030EPE (-Q)	64	PMEG2010EH	65	PMEG4005EPK	63
PHPT60410NY	37	PMCM4401VNE	111	PMEG050V150EPD	65	PMEG2010EJ (-Q)	65	PMEG4005ESF	63
PHPT60410PY	37	PMCM4401VNE	111	PMEG60T10ELP (-Q) ¹⁾	64	PMEG2010EPA	63	PMEG4005SET (-Q)	65
PHPT60415NY	37	PMCM4401VPE	186	PMEG60T10ELR (-Q) ¹⁾	64	PMEG2010EPAS	63	PMEG4010AESB	63
PHPT60415PY	37	PMCM4401VPE	186	PMEG60T10ELXD (-Q) ¹⁾	64	PMEG2010EPK	63	PMEG4010BEA (-Q)	65
PHPT60603NY	37	PMCM4401VPE	186	PMEG60T20ELP (-Q) ¹⁾	64	PMEG2010ER (-Q)	64	PMEG4010BEA (-Q)	65
PHPT60603PY	37	PMCM4402UPE	111	PMEG60T20ELR (-Q) ¹⁾	64	PMEG2010ET (-Q)	65	PMEG4010CEA	65
PHPT60606NY	37	PMCM6501UNE	111	PMEG60T20ELXD (-Q) ¹⁾	64	PMEG2015EA	65	PMEG4010CEA	65
PHPT60606PY	37	PMCM6501VNE	111	PMEG60T20ELXD (-Q) ¹⁾	64	PMEG2015EA	66	PMEG4010CEGW (-Q)	66
PHPT60610NY	37	PMCM6501VNE	186	PMEG060T030ELPE (-Q) ¹⁾	64	PMEG2015EH	66	PMEG4010CEH (-Q)	66
PHPT60610PY	37	PMCM6501VPE	186	PMEG60T30ELP (-Q) ¹⁾	64	PMEG2015EJ	66	PMEG4010CEJ (-Q)	66
PHPT61002NYC	37	PMCM6501VPE	186	PMEG60T30ELR (-Q) ¹⁾	64	PMEG2015EPK	63	PMEG4010CEPA	66
PHPT61002NYCLH	37	PMCPB5530X	111	PMEG060T040CLPE (-Q) ¹⁾	64	PMEG2020AEA	65	PMEG4010CPAS	66
PHPT61002PYC	37	PMCPB5530X	116	PMEG060T050ELPE (-Q) ¹⁾	64	PMEG2020AEA	66	PMEG4010EGW (-Q)	66
PHPT61002PYCLH	37	PMCPB5530X	116	PMEG60T50ELP (-Q) ¹⁾	64	PMEG2020CPA	66	PMEG4010EH (-Q)	66
PHPT61003NY	37	PMCPB5530X	109	PMEG060T060CLPE (-Q) ¹⁾	65	PMEG2020CPAS	66	PMEG4010EJ (-Q)	66
PHPT61003PY	37	PMCPB5530X	116	PMEG060T080CLPE (-Q) ¹⁾	65	PMEG2020EH	66	PMEG4010EJ (-Q)	66
PHPT61006NY	37	PMCPB5530X	109	PMEG060T100CLPE (-Q) ¹⁾	65	PMEG2020EJ (-Q)	66	PMEG4010EPK	63
PHPT61006PY	37	PMCPB5530X	109	PMEG060V030EPD	64	PMEG2020EPA	66	PMEG4010EPK (-Q)	64
PHPT61006PY	37	PMCPB5530X	116	PMEG060V030EPE (-Q)	64	PMEG2020EPAS	63	PMEG4010ETP (-Q)	64
PHPT61010NY	37	PMD2001D	29	PMEG060V050EPD	64	PMEG3001EEF	63	PMEG4010ETP (-Q)	64
PHPT61010PY	37	PMD3001D	29	PMEG060V050EPE (-Q)	64	PMEG3002AEL	63	PMEG4010ET (-Q)	66
PHPT610030NK (-Q)	37	PMDPB30XN	111	PMEG060V100EPD	65	PMEG3002AEL (-Q)	63	PMEG4010ETR (-Q)	64
PHPT610030PK (-Q)	37	PMDPB30XN	116	PMEG060V100EPE (-Q)	65	PMEG3002AESF	63	PMEG4015EPK	63
PHPT610035NK	28	PMDPB55XP	111	PMEG100T10ELR (-Q) ¹⁾	64	PMEG3002EEF	63	PMEG4020EPA	63
		PMDPB55XP	116	PMEG100T10ELXD (-Q) ¹⁾	64			PMEG4020EPAS	63

Types in **bold red** are in development, types in **bold** represent new products


Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number
PMEG4020EPK	63	PMN52XP	115	PMPB85ENE	110	PMV100XPEA	115	PNE20060EPE (-Q)	57
PMEG4020EPL (-Q)	64	PMN55ENE	113	PMPB95ENE	110	PMV130EPEA	97	PNE20080CPE (-Q)	57
PMEG4020EPL (-Q)	64	PMN55ENE	97	PMPB100ENE	110	PMV130EPEA	113	PNE20080EPE (-Q)	57
PMEG4020ETP (-Q)	64	PMN70EPE	115	PMPB215ENE	110	PMV160UP	115	PNE200100CPE (-Q)	57
PMEG4020ETR (-Q)	64	PMN70XP	115	PMSS3904	23	PMV164EPEA	97	PNE200100EPE (-Q)	57
PMEG4030EPL (-Q)	64	PMN70XPE	115	PMSS3906	23	PMV164ENE	113	PNP / PNP	40
PMEG4030EPL (-Q)	64	PMN100EPA	97	PMST2222	23	PMV240SP	115	PN540010ER	57
PMEG4030ETP (-Q)	64	PMN120ENE	97	PMST2222A	23	PMV250EPEA	97	PNUG5010EPL (-Q)	57
PMEG4030ETR (-Q)	64	PMN230ENE	113	PMST2369	23	PMV250EPEA	115	PNUG5010ER (-Q)	57
PMEG4050EPL (-Q)	64	PMN230ENE	97	PMST2907A	23	PMV280ENE	97	PNUG5020EPL (-Q)	57
PMEG4050ETP (-Q)	64	PMN280ENE	97	PMST3904	23	PMV280ENE	113	PNUG5030EPL (-Q)	57
PMEG6002EJ (-Q)	65	PMN280ENE	113	PMST3906	23	PMV450EPEA	97	PQMB11	40
PMEG6002EL	63	PMP3906AYS-Q	28	PMST4401	23	PMV450EPEA	113	PQMD2	40
PMEG6002ELD	63	PMP4201G	28	PMST4403	23	PMV500UNE	108	PQMD3	40
PMEG6010AESB	63	PMP4201Y	28	PMST5088	20	PMX100UNE	108	PQMD10	40
PMEG6010CEGW (-Q)	66	PMP4501G	28	PMST5089	20	PMX300UNE	108	PQMD12	40
PMEG6010CEH (-Q)	66	PMP4501QAS	28	PMST5550 (-Q)	25	PMX400UP	108	PQMD13	40
PMEG6010CEJ (-Q)	66	PMP4501Y	28	PMST5551 (-Q)	25	PMX400UPE	108	PQMD16	40
PMEG6010CPA	66	PMP5201G	28	PMST6428	20	PMX700EN	108	PQMH2	40
PMEG6010CPAS	66	PMP5201Y	28	PMST6429	20	PMX800UPE	108	PQMH9	40
PMEG6010ELR (-Q)	64	PMP5501G	28	PMSTA05	20	PMXB40UNE	109	PQMH10	40
PMEG6010EPL (-Q)	64	PMP5501QAS	28	PMSTA06	20	PMXB43UNE	109	PQMH11	40
PMEG6010ER (-Q)	64	PMP5501Y	28	PMSTA06	21	PMXB56EN	109	PQMH13	40
PMEG6010ESB	63	PMPB07ROUN	110	PMSTA42	25	PMXB65ENE	109	PRMB11	40
PMEG6010ETR (-Q)	64	PMPB07R3EN	110	PMSTA55	25	PMXB65UPE	109	PRMD2	40
PMEG6020AELP (-Q)	64	PMPB07R3VP	110	PMSTA92	21	PMXB75UPE	109	PRMD3	40
PMEG6020AELR (-Q)	64	PMPB08R4VP	110	PMV13XNEA	97	PMXB120EPE	109	PRMD10	40
PMEG6020ELR (-Q)	64	PMPB08R5XN	110	PMV13XNEA	113	PMXB350UPE	109	PRMD12	40
PMEG6020EPA	63	PMPB08R6EN	110	PMV15ENE	97	PMXB360ENE	97	PRMD13	40
PMEG6020EPAS	63	PMPB8XN	110	PMV15ENE	113	PMXB360ENE	109	PRMD16	40
PMEG6020EPL (-Q)	64	PMPB09R1XN	110	PMV15UNE	97	PMZ130UNE	108	PRMD2	40
PMEG6020EPL (-Q)	64	PMPB09R5VP	110	PMV15UNE	113	PMZ130UNE	113	PRMH9	40
PMEG6020ETP (-Q)	64	PMPB10EN	110	PMV16XN	113	PMZ200UNE	108	PRMH10	40
PMEG6020ETR (-Q)	64	PMPB10R3XN	110	PMV19XNEA	97	PMZ200UNE	113	PRMH11	40
PMEG6030EPL (-Q)	64	PMPB10R5TP	110	PMV20EN	113	PMZ290UNE2	108	PRMH13	40
PMEG6030EPL (-Q)	64	PMPB10XN	110	PMV20XNE	113	PMZ290UNE2	113	PRTR5V0U2AX	76
PMEG6030ETP (-Q)	64	PMPB10XNE	110	PMV20XNEA	97	PMZ320UPE	108	PRTR5V0U2F	76
PMEG6030EVP (-Q)	64	PMPB10XNEA	97	PMV20XNEA	113	PMZ320UPE	115	PRTR5V0U2X	76
PMEG6045ETP (-Q)	64	PMPB11EN	110	PMV27UPE	115	PMZ350UPE	108	PRTR5V0U4D	76
PMEG10010ELR (-Q)	64	PMPB11R2VP	110	PMV27UPEA	97	PMZ350UPE	115	PSC1065H	58
PMEG10020AELP (-Q)	64	PMPB12R5EP	110	PMV28ENE	97	PMZ390UNE	108	PSC1065J	58
PMEG10020AELR (-Q)	64	PMPB12R5UPE	110	PMV28ENE	113	PMZ390UNE	113	PSC1065K	58
PMEG10020ELR (-Q)	64	PMPB12R7EP	110	PMV28UNE	97	PMZ550UNE	108	PSC1065L	58
PMEG10030EPL (-Q)	64	PMPB12UNE	97	PMV28UNE	113	PMZ550UNE	113	PSMN0R7-25YLD	100
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PMF170XP	115	PMPB13UP	110	PMV30ENE	97	PMZ600UNE	113	PSMN0R9-30ULD	101
PMF250XNE	113	PMPB13XNE	110	PMV30ENE	113	PMZ600UNEL	109	PSMN0R9-30YLD	100
PMG85XP	115	PMPB13XNEA	97	PMV30ENE	113	PMZ950UPE	108	PSMN1R0-25YLD	100
PMGD175XNE	116	PMPB14R0EP	110	PMV30UN2	113	PMZ950UPE	115	PSMN1R0-30YLD	100
PMGD290UCEA	98	PMPB14R7EP	110	PMV30XPA	97	PMZ950UPEL	109	PSMN1R0-30YLD	100
PMH260UNE	108	PMPB14R8XN	110	PMV30XPEA	97	PMZ1200UPE	108	PSMN1R0-30YLE	100
PMH400UNE	108	PMPB14XN	110	PMV30XPEA	115	PMZ1200UPE	115	PSMN1R0-40SSH	102
PMH550UNE	108	PMPB14XP	110	PMV32UP	115	PMZ1500UNE	108	PSMN1R0-40ULD	103
PMH550UPE	108	PMPB15XN	110	PMV33UPE	115	PMZB150UNE	113	PSMN1R0-40YLD	100
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PMN20ENE	97	PMPB20EN	110	PMV48XPA	97	PMZB350UPE	115	PSMN1R2-25YLD	100
PMN20ENE	113	PMPB20XNEA	97	PMV48XPA2	97	PMZB390UNE	108	PSMN1R2-30YLD	100
PMN25ENE	113	PMPB20XNEA	110	PMV50EPE	97	PMZB390UNE	113	PSMN1R2-30YLD	100
PMN25ENE	97	PMPB20XNEA	97	PMV50UPE	115	PMZB390UNE	108	PSMN1R2-55SLH	102
PMN28UNE	113	PMPB20XPEA	110	PMV50XNEA	97	PMZB550UNE	113	PSMN1R3-30YLD	100
PMN30ENE	97	PMPB23XNE	97	PMV50XNE	113	PMZB550UNE	108	PSMN1R4-30YLD	100
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PMN30UNE	113	PMPB27EP	110	PMV55ENE	97	PMZB950UPE	108	PSMN1R5-30BLE	100
PMN30XP	115	PMPB27EPA	97	PMV60ENE	97	PMZB950UPE	115	PSMN1R5-30YL	100
PMN30XPA	97	PMPB29XNE	110	PMV60ENE	113	PMZB950UPEL	109	PSMN1R5-30YLC	100
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With all the essentials in one handy guide,
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