

Payment Systems

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Payment Systems

Power Management ICs

- LDO's
- Power MOSFETs
- Diodes
- Visible LED
- IR emitters and receivers
- Capacitors
- Inductors
- Beads
- Resistors
- Thermistors

Application Overview

"A payment system is a system used for transferring money. With the advent of computers and electronic communications a large number of alternative electronic payment systems have emerged. These include debit cards, credit cards, electronic funds transfers, direct credits, direct debits, internet banking and e-commerce payment systems. Some payment systems include credit mechanisms, but that is essentially a different aspect of payment. Payment systems are used in lieu of tendering cash in domestic and international transactions and consist of a major service provided by banks and other financial institutions. Payment systems may be physical or electronic and each has their own procedures and protocols. They are securely transmitting informations and transactions to a server for authentication and approval. Examples of payment systems that have become globally available are credit card and automated teller machine networks. Mobile payment or known also as Mobile wallet is an alternative payment method. Instead of paying with cash, cheque or credit cards, a consumer can use a mobile phone to pay for a wide range of services and digital or hard goods."

Payment Systems : Communication, GPRS

Inductor

Product Name	Status	Description	Features	Package	Q-Level
ILBB...		Multilayer Ferrite Beads 7Ω to 2200Ω at 100 MHz	Magnetically self shielded	SMD 0805	

Schottky diode

Product Name	Status	Description	Features	Package	Q-Level
MSS1P3L		30V, 1A	0.35V at 1.0A	SMD Micro SMP	
SSA34		40V, 3A	0.42V at 3.0A	SMA	

Switching MOSFET

Product Name	Status	Description	Features	Package	Q-Level
Si1032X		N-channel 20V MOSFET VDS = 20V ; ID = 200mA ; rds(on) = 5Ω	Low threshold (1.5V)	SMD SC89	

Transient Voltage Suppressor

Product Name	Status	Description	Features	Package	Q-Level
SMBJ...		Uni-directionnal, Bi-directionnal, 600W 5.0V - 188V	Excellent Clamping Capability Very Fast Response time	DO-214AA	

Payment Systems : Communication, IR Communication

Infrared Emitting

Product Name	Status	Description	Features	Package	Q-Level
VSMB20...		High Speed Infrared Emitting Diode 940nm, +/- 12°	High radiant intensity, Low forward voltage for high pulse current	SMD	

Reciever

Product Name	Status	Description	Features	Package	Q-Level
VEMD20...		High Speed Silicon PIN photodiode 830 nm - 950 nm, +/- 15°	High radiant sensitivity Fast response time	SMD	

Payment Systems : Communication, NFC

Inductor

Product Name	Status	Description	Features	Package	Q-Level
IMC0805-01		Surface Mount Inductors	10nH to 1mH	SMD 0805	

Payment Systems : Peripherals, Printer

Power MOSFET

Product Name	Status	Description	Features	Package	Q-Level
Si4116DY		N-channel 25V MOSFET VDS = 25V ; ID = 18A ; rds(on) = 8.6 mΩ	Low threshold	SMD SO8	

Payment Systems : Peripherals, USB

ESD protection diode

Product Name	Status	Description	Features	Package	Q-Level
VBUS051BD		Single Line ESD protection device ESD Immunity > 15 kV	Low capacitance Ultra Compact package High surge current	LLP1006-2L	

Payment Systems : Power Supply, Charge control

Load switch

Product Name	Status	Description	Features	Package	Q-Level
Si2301		P-channel 20V MOSFET	VDS = -20V ID = -3.1 A rds(on) = 112 mΩ	SOT-23	

Temperature Sensing

Product Name	Status	Description	Features	Package	Q-Level
NTCS0805E3		Glass protected NTC thermistor Tolerance on R25 down to 1% Tolerance on B25/85 down to 1%		SMD 0805	

Payment Systems : Power Supply, EMI Filtering

Y Capacitors

Product Name	Status	Description	Features	Package	Q-Level
YY1 series		AC Line Rated Disc Capacitors Class Y1 500 Vac	10pF to 4.7nF Complying IEC 60384-14		
YY2		AC Line Rated Disc Capacitors Class Y2 300Vac	10pF to 10nF Complying IEC 60384-14 High reliability		

Payment Systems : Power Supply, Switch Mode Regulator

High Side MOSFET

Product Name	Status	Description	Features	Package	Q-Level
Si7633DP		P-channel 20V MOSFET	VDS = -20V ID = -60A rds(on) = 3.3 mΩ	PPAK-SO8	

Inductor

Product Name	Status	Description	Features	Package	Q-Level
IHLP2525		Low Profile High Current Inductor 0,1μH to 10 μH - Isat = 7 to 60A	Shielded construction lowest height 1.8mm		

Low Side MOSFET

Product Name	Status	Description	Features	Package	Q-Level
SIS402DN		N-channel 30V MOSFET	VDS = 30V ID = 35A rds(on) = 6mΩ	PPAK 1212-8	

Payment Systems : User Interface, Keyboard

6-channels EMI Filter + ESD protection

Product Name	Status	Description	Features	Package	Q-Level
VEMI65AC		Line Resistance = 100Ω, Cut off frequency = 240Mhz ESD immunity > 12 kV	Low leakage current	LLP2513-13L	