NO: REL – 270A
DATE: January 2026

PRODUCT: G3VM (select models) – MOS FET Relays
TYPE: DISCONTINUATION – Partial

Partial Discontinuation
G3VM (select models) - MOS FET Relays

In an effort to streamline our product offering, Omron will discontinue **select** models of our G3VM-HR, G3VM-LR and G3VM-GR MOS FET Relays; effective February 26, 2027. For new circuit designs, please consider Omron's suggested replacements that exist within the G3VM family. The following notice will list the models affected by the partial discontinuation; should you have any questions, however, please communicate with the Relay Product Manager.

Last Order Date (Last Time Buy Date)

End of February 2027 (Friday, February 26, 2027)

NOTE 1: The remaining models of the G3VM series of MOS FET Relays are NOT being discontinued.

NOTE 2: Please use careful consideration when evaluating the suggested replacements.

Discontinued G3VM Models	**Suggested Replacements**	Body Color	Dimensions	Mounting Dimensions	Characteristics / Operation ratings	Wire connection / Operation methods
-21HR / -31HR -21HR(TR) / -31HR(TR05)	**G3VM-31HR1** **G3VM-31HR1(TR05)**	**	**	**	*	**
-41HR / -61HR / -61HR1 -41HR(TR) / -61HR(TR) / -61HR1(TR05)	**G3VM-61HR2** **G3VM-61HR2(TR05)**	**	**	**	*	**
-81HR / -101HR / -101HR1 -81HR(TR) / -101HR(TR) -101HR1(TR05)	**G3VM-101HR2** **G3VM-101HR2(TR)** **G3VM-101HR2(TR05)**	**	**	**	*	**
-21LR / -21LR10 -21LR(TR05) / -21LR10(TR05)	**G3VM-21UR10** **G3VM-21UR10(TR05)**	--	--	--	*	**
-21LR1 -21LR1(TR05)	**G3VM-21UR1** **G3VM-21UR1(TR05)**	--	--	--	*	**
-21LR11 -21LR11(TR05)	**G3VM-21UR11** **G3VM-21UR11(TR05)**	--	--	--	*	**
-41LR4 -41LR4(TR05)	**G3VM-41UR4** **G3VM-41UR4(TR05)**	--	--	--	*	**
-41LR5 / -41LR6 -41LR5(TR05) / -41LR6(TR05)	**G3VM-41UR12** **G3VM-41UR12(TR05)**	--	--	--	*	**
-41LR10 -41LR10(TR05)	**G3VM-41UR10** **G3VM-41UR10(TR05)**	--	--	--	*	**
-41LR11 -41LR11(TR05)	**G3VM-41UR11** **G3VM-41UR11(TR05)**	--	**	**	*	**
-61LR -61LR(TR05)	**G3VM-61UR** **G3VM-61UR(TR05)**	--	--	--	*	**
-81LR -81LR(TR05)	**G3VM-81UR** **G3VM-81UR(TR05)**	--	--	--	*	**
-101LR -101LR (TR05)	**G3VM-101UR** **G3VM-101UR(TR05)**	--	--	--	*	**
-41GR8 -41GR8(TR)	**G3VM-61VR** **G3VM-61VR(TR)**	--	*	**	*	**

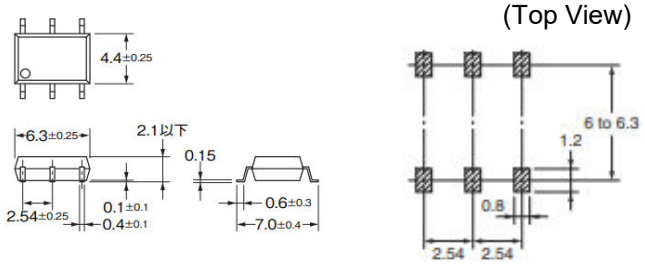
** : Compatible
* : The change is a little/Almost compatible
-- : Not compatible
- : No corresponding specification

List of Discontinued Models

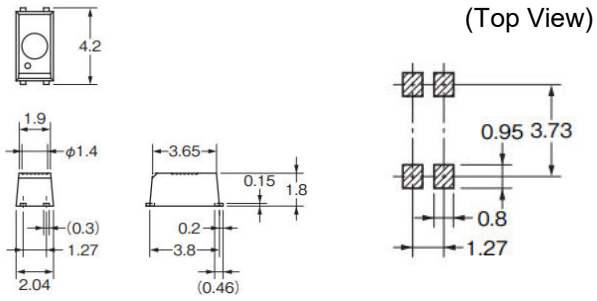
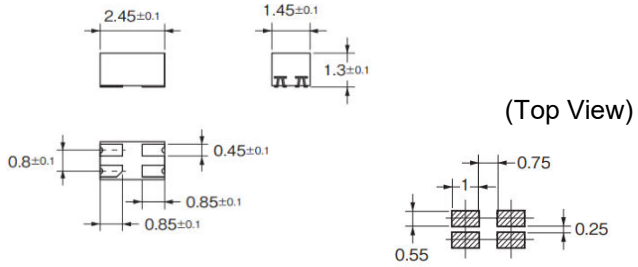
Discontinued Models	Suggested Replacements
G3VM-21HR	G3VM-31HR1
G3VM-21HR(TR)	G3VM-31HR1(TR05)
G3VM-31HR	G3VM-31HR1
G3VM-31HR(TR05)	G3VM-31HR1(TR05)
G3VM-41HR	G3VM-61HR2
G3VM-41HR(TR)	G3VM-61HR2(TR05)
G3VM-61HR	G3VM-61HR2
G3VM-61HR(TR)	G3VM-61HR2(TR05)
G3VM-61HR1	G3VM-61HR2
G3VM-61HR1(TR05)	G3VM-61HR2(TR05)
G3VM-81HR	G3VM-101HR2
G3VM-81HR(TR)	G3VM-101HR2(TR)
G3VM-101HR	G3VM-101HR2
G3VM-101HR(TR)	G3VM-101HR2(TR)
G3VM-101HR1	G3VM-101HR2
G3VM-101HR1(TR05)	G3VM-101HR2(TR05)
G3VM-21LR	G3VM-21UR10
G3VM-21LR(TR05)	G3VM-21UR10(TR05)
G3VM-21LR10	G3VM-21UR10
G3VM-21LR10(TR05)	G3VM-21UR10(TR05)
G3VM-21LR1	G3VM-21UR1

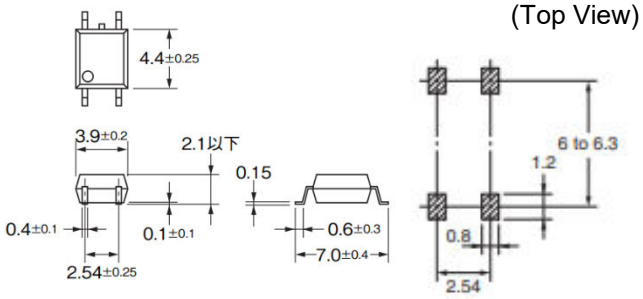
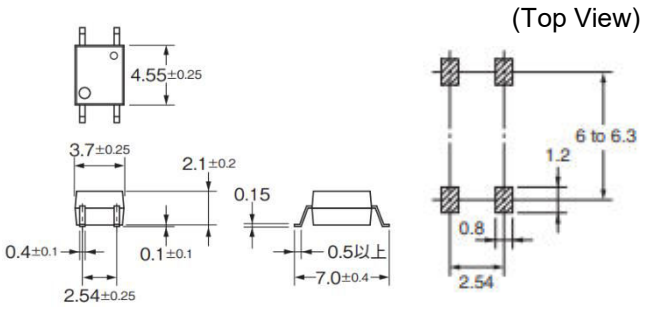
Discontinued Models	Suggested Replacement s
G3VM-21LR1(TR05)	G3VM-21UR1(TR05)
G3VM-21LR11	G3VM-21UR11
G3VM-21LR11(TR05)	G3VM-21UR11(TR05)
G3VM-41LR4	G3VM-41UR4
G3VM-41LR4(TR05)	G3VM-41UR4(TR05)
G3VM-41LR5	G3VM-41UR12
G3VM-41LR5(TR05)	G3VM-41UR12(TR05)
G3VM-41LR6	G3VM-41UR12
G3VM-41LR6(TR05)	G3VM-41UR12(TR05)
G3VM-41LR10	G3VM-41UR10
G3VM-41LR10(TR05)	G3VM-41UR10(TR05)
G3VM-41LR11	G3VM-41UR11
G3VM-41LR11(TR05)	G3VM-41UR11(TR05)
G3VM-61LR	G3VM-61UR
G3VM-61LR(TR05)	G3VM-61UR(TR05)
G3VM-81LR	G3VM-81UR
G3VM-81LR(TR05)	G3VM-81UR(TR05)
G3VM-101LR	G3VM-101UR
G3VM-101LR(TR05)	G3VM-101UR(TR05)
G3VM-41GR8	G3VM-61VR
G3VM-41GR8(TR)	G3VM-61VR(TR)(THA)

Dimensions and PCB Layout

Discontinued G3VM-HR Models (Including (TR) and (TR05) Tape and Reel models)	Suggested Replacements (Including (TR) and (TR05) Tape and Reel models)
G3VM-21HR / G3VM-31HR G3VM-41HR / G3VM-61HR / G3VM-61HR1 G3VM-81HR / G3VM-101HR / G3VM-101HR1	**G3VM-31HR1 G3VM-61HR2 G3VM-101HR2**
Color = White 	Color = White Same as Left

Dimensions and PCB Layout (Continued)

Discontinued G3VM-LR Models (Including (TR05) Tape and Reel models)	Suggested Replacements (Including and (TR05) Tape and Reel models)
G3VM-21LR /G3VM-21LR10 G3VM-21LR1 G3VM-21LR11 G3VM-41LR4 / G3VM-41LR5, -41LR6 G3VM-41LR10 / G3VM-41LR11 G3VM-61LR / G3VM-81LR / G3VM-101LR	**G3VM-21UR10 G3VM-21UR1 G3VM-21UR11 G3VM-41UR4 / G3VM-41UR12 G3VM-41UR10 / G3VM-41UR11 G3VM-61UR / G3VM-81UR / G3VM-101UR**
Color = White 	Color = Black 

Discontinued G3VM-GR Model (Including (TR) Tape and Reel models)	Suggested Replacements (Including (TR) Tape and Reel models)
G3VM-41GR8	**G3VM-61VR**
Color = White 	Color = Black 

* Sales teams should communicate this discontinuation with their OEM's and CEM's.
For further technical support and any questions, please communicate with Product Marketing.

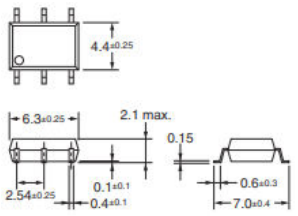
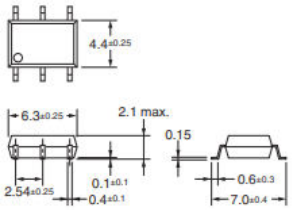
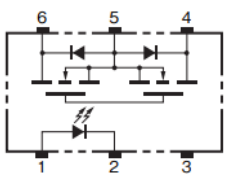
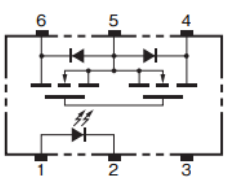
Specifications in this product news are as of the issue date and are subject to change without notice.
Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.
This PCN is intended for use in the Americas
Last time buy dates are subject to change based on availability

G3VM MOS FET Relays (select HR, GR and LR models) – Partial Discontinuation

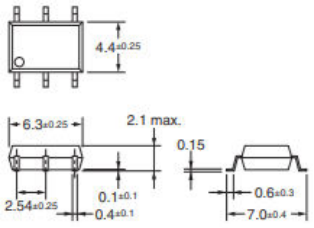
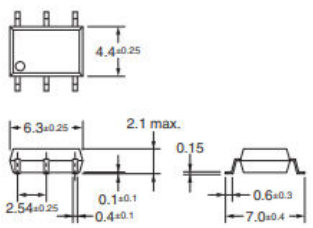
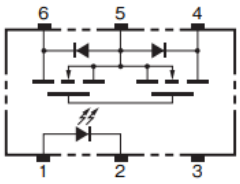
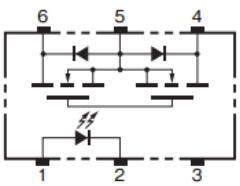
Appendix A: Comparison of Operating Characteristics

G3VM-HR Models

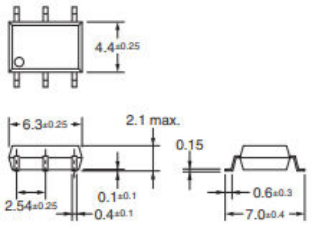
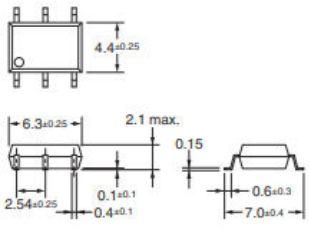
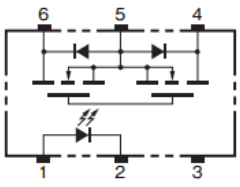
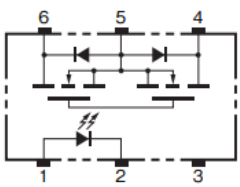
G3VM-21HR / G3VM-21HR(TR)

Item					Product Discontinuation			Recommended Replacement		
					G3VM-21HR G3VM-21HR(TR)			G3VM-31HR1 G3VM-31HR1(TR05)		
Type										
Package					SOP6			SOP6		
Contact form					1a(SPST-NO)			1a(SPST-NO)		
Terminal structure					Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		I_F	mA	30			30		
Input	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	20			30		
Output	Continuous load current	Connection A	I_O	A	2.5			4.5		
Output	Continuous load current	Connection B	I_O	A	2.5			4.5		
Output	Continuous load current	Connection C	I_O	A	5.0			9		
Dielectric strength between input and output			V_{I-O}	Vrms	1,500			1,500		
Operating Temperature			T_a	℃	−40	～	+ 85	−40	～	+ 110
Storage Temperature			T_{stg}	℃	−55	～	+ 125	−55	～	+ 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage		V_F	V	1.18	1.33	1.48	1.5	1.65	1.8
Input	Trigger LED Forward Current		I_{FT}	mA	–	–	3	–	0.3	3
Input	Release LED Forward Current		I_{FC}	mA	0.1	–	–	0.1	–	–
Output	Maximum resistance with output ON	Connection A	R_{ON}	Ω	–	0.02	0.05	–	0.022	0.03
Output	Maximum resistance with output ON	Connection B	R_{ON}	Ω	–	0.01	0.025	–	0.011	0.015
Output	Maximum resistance with output ON	Connection C	R_{ON}	Ω	–	0.005	–	–	0.006	0.008
Output	Current leakage when the relay is open		I_{LEAK}	nA	–	–	10	–	–	1000
Output	Capacitance between terminals		C_{OFF}	pF	–	1000	–	–	1200	–
Capacitance between I/O terminals			C_{I-O}	pF	–	0.8	–	–	0.8	–
Insulation resistance between I/O terminals			R_{I-O}	MΩ	1000	1.00E+08	–	1000	1.00E+08	–
Turn-ON time			t_{ON}	ms	–	1.5	5	–	0.6	2
Turn-OFF time			t_{OFF}	ms	–	0.1	1	–	0.15	0.5
Approved standards					UL			UL		
Dimensions										
Terminal arrangement /Internal connections					TOP VIEW 			TOP VIEW 		

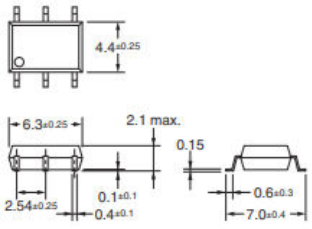
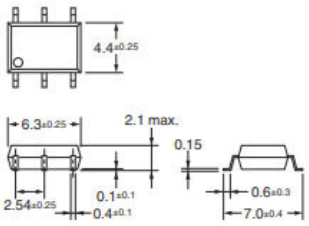
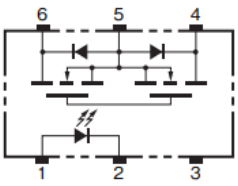
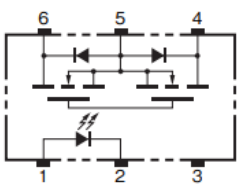
G3VM-31HR / G3VM-31HR(TR05)

Item					Product Discontinuation			Recommended Replacement		
					G3VM-31HR G3VM-31HR(TR05)			G3VM-31HR1 G3VM-31HR1(TR05)		
Type										
Package					SOP6			SOP6		
Contact form					1a(SPST-NO)			1a(SPST-NO)		
Terminal structure					Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		I_F	mA	30			30		
Input	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	30			30		
Output	Continuous load current	Connection A	I_O	A	4.0			4.5		
Output	Continuous load current	Connection B	I_O	A	4.0			4.5		
Output	Continuous load current	Connection C	I_O	A	8.0			9		
Dielectric strength between input and output			V_{I-O}	Vrms	1,500			1,500		
Operating Temperature			T_a	℃	−40	～	+ 85	−40	～	+ 110
Storage Temperature			T_{stg}	℃	−55	～	+ 125	−55	～	+ 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage		V_F	V	1.18	1.33	1.48	1.5	1.65	1.8
Input	Trigger LED Forward Current		I_{FT}	mA	−	0.3	3	−	0.3	3
Input	Release LED Forward Current		I_{FC}	mA	0.1	−	−	0.1	−	−
Output	Maximum resistance with output ON	Connection A	R_{ON}	Ω	−	0.02	0.04	−	0.022	0.03
Output	Maximum resistance with output ON	Connection B	R_{ON}	Ω	−	0.008	0.02	−	0.011	0.015
Output	Maximum resistance with output ON	Connection C	R_{ON}	Ω	−	0.004	0.01	−	0.006	0.008
Output	Current leakage when the relay is open		I_{LEAK}	nA	−	−	1000	−	−	1000
Output	Capacitance between terminals		C_{OFF}	pF	−	1100	−	−	1200	−
Capacitance between I/O terminals			C_{I-O}	pF	−	0.8	−	−	0.8	−
Insulation resistance between I/O terminals			R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time			t_{ON}	ms	−	1.1	5	−	0.6	2
Turn-OFF time			t_{OFF}	ms	−	0.1	1	−	0.15	0.5
Approved standards					UL			UL		
Dimensions										
Terminal arrangement /Internal connections					TOP VIEW 			TOP VIEW 		

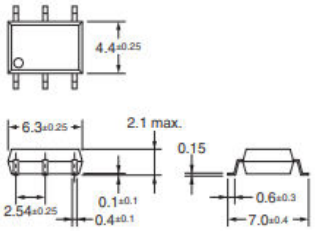
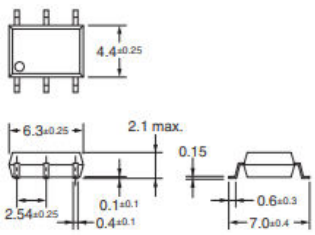
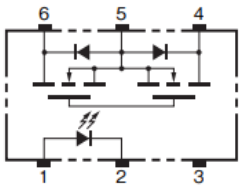
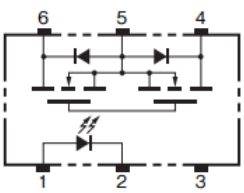
G3VM-41HR / G3VM-41HR(TR)

Item					Product Discontinuation G3VM-41HR G3VM-41HR(TR)			Recommended Replacement G3VM-61HR2 G3VM-61HR2(TR05)		
Type										
Package					SOP6			SOP6		
Contact form					1a(SPST-NO)			1a(SPST-NO)		
Terminal structure					Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		I_F	mA	30			30		
Input	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	40			60		
Output	Continuous load current	Connection A	I_O	A	2.5			4.0		
Output	Continuous load current	Connection B	I_O	A	2.5			4.0		
Output	Continuous load current	Connection C	I_O	A	5.0			8		
Dielectric strength between input and output			V_{I-O}	Vrms	1,500			1,500		
Operating Temperature			T_a	℃	−40	～	+ 85	−40	～	+ 110
Storage Temperature			T_{stg}	℃	−55	～	+ 125	−55	～	+ 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage		V_F	V	1.18	1.33	1.48	1.5	1.65	1.8
Input	Trigger LED Forward Current		I_{FT}	mA	−	0.4	3	−	0.3	3
Input	Release LED Forward Current		I_{FC}	mA	0.1	−	−	0.1	−	−
Output	Maximum resistance with output ON	Connection A	R_{ON}	Ω	−	0.03	0.06	−	0.028	0.04
Output	Maximum resistance with output ON	Connection B	R_{ON}	Ω	−	0.015	0.03	−	0.014	0.02
Output	Maximum resistance with output ON	Connection C	R_{ON}	Ω	−	0.008	−	−	0.007	0.01
Output	Current leakage when the relay is open		I_{LEAK}	nA	−	−	10	−	−	1000
Output	Capacitance between terminals		C_{OFF}	pF	−	1000	−	−	750	−
Capacitance between I/O terminals			C_{I-O}	pF	−	0.8	−	−	0.8	−
Insulation resistance between I/O terminals			R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time			t_{ON}	ms	−	1	5	−	0.6	2
Turn-OFF time			t_{OFF}	ms	−	0.15	1	−	0.15	0.5
Approved standards					UL			UL		
Dimensions										
Terminal arrangement /Internal connections					TOP VIEW 			TOP VIEW 		

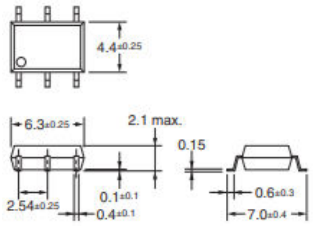
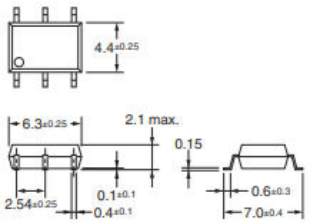
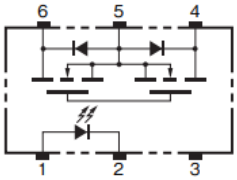
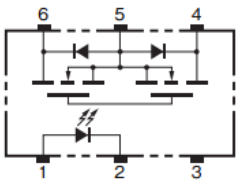
G3VM-61HR / G3VM-61HR(TR)

Item					Product Discontinuation G3VM-61HR G3VM-61HR(TR)			Recommended Replacement G3VM-61HR2 G3VM-61HR2(TR05)		
Type										
Package					SOP6			SOP6		
Contact form					1a(SPST-NO)			1a(SPST-NO)		
Terminal structure					Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		I_F	mA	30			30		
Input	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	60			60		
Output	Continuous load current	Connection A	I_O	A	2.3			4.0		
Output	Continuous load current	Connection B	I_O	A	2.3			4.0		
Output	Continuous load current	Connection C	I_O	A	4.6			8		
Dielectric strength between input and output			V_{I-O}	Vrms	1,500			1,500		
Operating Temperature			T_a	℃	−40	～	+ 85	−40	～	+ 110
Storage Temperature			T_{stg}	℃	−55	～	+ 125	−55	～	+ 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage		V_F	V	1.18	1.33	1.48	1.5	1.65	1.8
Input	Trigger LED Forward Current		I_{FT}	mA	−	0.4	3	−	0.3	3
Input	Release LED Forward Current		I_{FC}	mA	0.1	−	−	0.1	−	−
Output	Maximum resistance with output ON	Connection A	R_{ON}	Ω	−	0.04	0.07	−	0.028	0.04
Output	Maximum resistance with output ON	Connection B	R_{ON}	Ω	−	0.02	0.04	−	0.014	0.02
Output	Maximum resistance with output ON	Connection C	R_{ON}	Ω	−	0.01	−	−	0.007	0.01
Output	Current leakage when the relay is open		I_{LEAK}	nA	−	−	10	−	−	1000
Output	Capacitance between terminals		C_{OFF}	pF	−	1000	−	−	750	−
Capacitance between I/O terminals			C_{I-O}	pF	−	0.8	−	−	0.8	−
Insulation resistance between I/O terminals			R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time			t_{ON}	ms	−	1	5	−	0.6	2
Turn-OFF time			t_{OFF}	ms	−	0.15	1	−	0.15	0.5
Approved standards					UL			UL		
Dimensions										
Terminal arrangement /Internal connections					TOP VIEW 			TOP VIEW 		

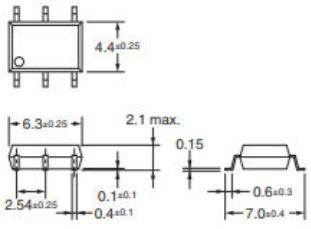
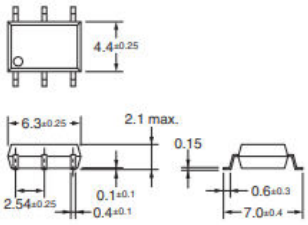
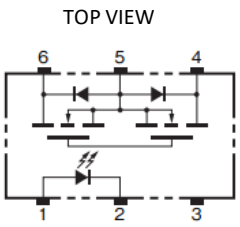
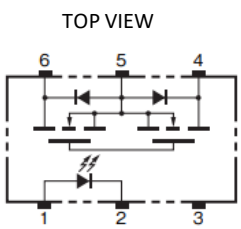
G3VM-61HR1 / G3VM-61HR1(TR05)

Item					Product Discontinuation G3VM-61HR1 G3VM-61HR1(TR05)			Recommended Replacement G3VM-61HR2 G3VM-61HR2(TR05)		
Type										
Package					SOP6			SOP6		
Contact form					1a(SPST-NO)			1a(SPST-NO)		
Terminal structure					Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		I_F	mA	30			30		
Input	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	60			60		
Output	Continuous load current	Connection A	I_O	A	3.3			4		
Output	Continuous load current	Connection B	I_O	A	3.3			4		
Output	Continuous load current	Connection C	I_O	A	6.6			8		
Dielectric strength between input and output			V_{I-O}	Vrms	1,500			1,500		
Operating Temperature			T_a	℃	−40	～	+ 85	−40	～	+ 110
Storage Temperature			T_{stg}	℃	−55	～	+ 125	−55	～	+ 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage		V_F	V	1.18	1.33	1.48	1.5	1.65	1.8
Input	Trigger LED Forward Current		I_{FT}	mA	−	0.2	3	−	0.3	3
Input	Release LED Forward Current		I_{FC}	mA	0.1	−	−	0.1	−	−
Output	Maximum resistance with output ON	Connection A	R_{ON}	Ω	−	0.03	0.06	−	0.028	0.04
Output	Maximum resistance with output ON	Connection B	R_{ON}	Ω	−	0.015	−	−	0.014	0.02
Output	Maximum resistance with output ON	Connection C	R_{ON}	Ω	−	0.008	−	−	0.007	0.01
Output	Current leakage when the relay is open		I_{LEAK}	nA	−	−	20	−	−	1000
Output	Capacitance between terminals		C_{OFF}	pF	−	700	1500	−	750	−
Capacitance between I/O terminals			C_{I-O}	pF	−	0.8	−	−	0.8	−
Insulation resistance between I/O terminals			R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time			t_{ON}	ms	−	0.6	5	−	0.6	2
Turn-OFF time			t_{OFF}	ms	−	0.2	1	−	0.15	0.5
Approved standards					UL			UL		
Dimensions										
Terminal arrangement /Internal connections					TOP VIEW 			TOP VIEW 		

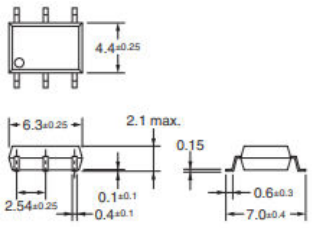
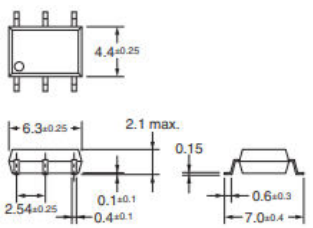
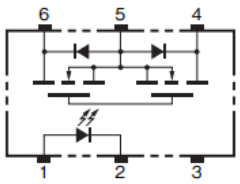
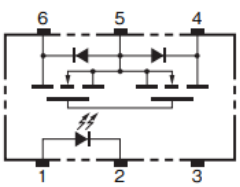
G3VM-81HR / G3VM-81HR(TR)

Item					Product Discontinuation G3VM-81HR G3VM-81HR(TR)			Recommended Replacement G3VM-101HR2 G3VM-101HR2(TR)		
Type										
Package					SOP6			SOP6		
Contact form					1a(SPST-NO)			1a(SPST-NO)		
Terminal structure					Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		I_F	mA	50			30		
Input	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	80			100		
Output	Continuous load current	Connection A	I_O	A	1.25			3.0		
Output	Continuous load current	Connection B	I_O	A	1.25			3.0		
Output	Continuous load current	Connection C	I_O	A	2.5			6		
Dielectric strength between input and output			V_{I-O}	Vrms	1,500			1,500		
Operating Temperature			T_a	℃	−40	～	+ 85	−40	～	+ 110
Storage Temperature			T_{stg}	℃	−55	～	+ 125	−55	～	+ 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage		V_F	V	1	1.15	1.3	1.5	1.65	1.8
Input	Trigger LED Forward Current		I_{FT}	mA	−	2	5	−	0.35	3
Input	Release LED Forward Current		I_{FC}	mA	0.2	−	−	0.1	−	−
Output	Maximum resistance with output ON	Connection A	R_{ON}	Ω	−	0.11	0.15	−	0.05	0.065
Output	Maximum resistance with output ON	Connection B	R_{ON}	Ω	−	0.06	0.08	−	0.025	0.033
Output	Maximum resistance with output ON	Connection C	R_{ON}	Ω	−	0.03	0.04	−	0.013	0.016
Output	Current leakage when the relay is open		I_{LEAK}	nA	−	1.2	1.5	−	−	1000
Output	Capacitance between terminals		C_{OFF}	pF	−	460	1000	−	460	−
Capacitance between I/O terminals			C_{I-O}	pF	−	0.8	−	−	0.8	−
Insulation resistance between I/O terminals			R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time			t_{ON}	ms	−	2	3	−	0.45	2
Turn-OFF time			t_{OFF}	ms	−	0.7	1	−	0.1	0.5
Approved standards					UL			UL		
Dimensions										
Terminal arrangement /Internal connections					TOP VIEW 			TOP VIEW 		

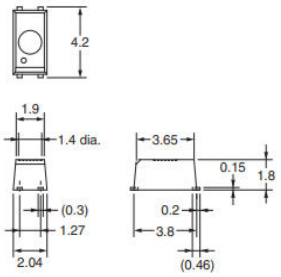
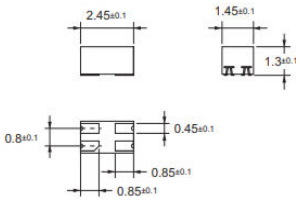
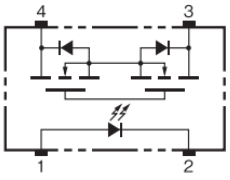
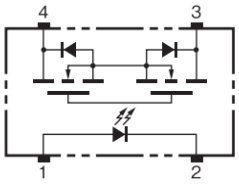
G3VM-101HR / G3VM-101HR(TR)

Item					Product Discontinuation G3VM-101HR G3VM-101HR(TR)			Recommended Replacement G3VM-101HR2 G3VM-101HR2(TR)		
Type										
Package					SOP6			SOP6		
Contact form					1a(SPST-NO)			1a(SPST-NO)		
Terminal structure					Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		I_F	mA	30			30		
Input	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	100			100		
Output	Continuous load current	Connection A	I_O	A	1.4			3		
Output	Continuous load current	Connection B	I_O	A	1.4			3		
Output	Continuous load current	Connection C	I_O	A	2.8			6		
Dielectric strength between input and output			V_{I-O}	Vrms	1,500			1,500		
Operating Temperature			T_a	℃	−40	～	+ 85	−40	～	+ 110
Storage Temperature			T_{stg}	℃	−55	～	+ 125	−55	～	+ 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage		V_F	V	1.18	1.33	1.48	1.5	1.65	1.8
Input	Trigger LED Forward Current		I_{FT}	mA	−	0.4	3	−	0.35	3
Input	Release LED Forward Current		I_{FC}	mA	0.1	−	−	0.1	−	−
Output	Maximum resistance with output ON	Connection A	R_{ON}	Ω	−	0.1	0.2	−	0.05	0.065
Output	Maximum resistance with output ON	Connection B	R_{ON}	Ω	−	0.05	0.1	−	0.025	0.033
Output	Maximum resistance with output ON	Connection C	R_{ON}	Ω	−	0.025	−	−	0.013	0.016
Output	Current leakage when the relay is open		I_{LEAK}	nA	−	−	10	−	−	1000
Output	Capacitance between terminals		C_{OFF}	pF	−	1000	−	−	460	−
Capacitance between I/O terminals			C_{I-O}	pF	−	0.8	−	−	0.8	−
Insulation resistance between I/O terminals			R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time			t_{ON}	ms	−	1	5	−	0.45	2
Turn-OFF time			t_{OFF}	ms	−	0.15	1	−	0.1	0.5
Approved standards					UL			UL		
Dimensions										
Terminal arrangement /Internal connections										

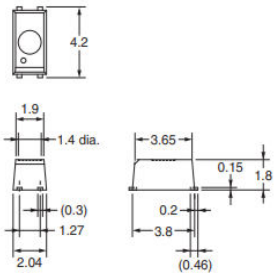
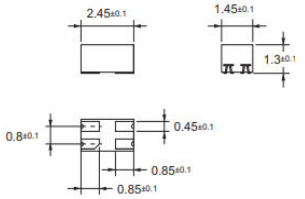
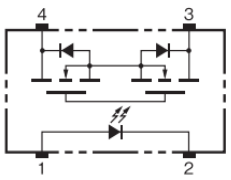
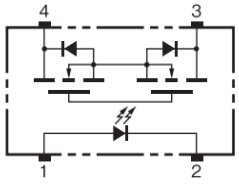
G3VM-101HR1 / G3VM-101HR(TR05)

Item					Product Discontinuation G3VM-101HR1 G3VM-101HR1(TR05)			Recommended Replacement G3VM-101HR2 G3VM-101HR2(TR05)		
Type										
Package					SOP6			SOP6		
Contact form					1a(SPST-NO)			1a(SPST-NO)		
Terminal structure					Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		I_F	mA	30			30		
Input	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	100			100		
Output	Continuous load current	Connection A	I_O	A	2.0			3		
Output	Continuous load current	Connection B	I_O	A	2.0			3		
Output	Continuous load current	Connection C	I_O	A	4.0			6		
Dielectric strength between input and output			V_{I-O}	Vrms	1,500			1,500		
Operating Temperature			T_a	℃	−40	～	+ 85	−40	～	+ 110
Storage Temperature			T_{stg}	℃	−55	～	+ 125	−55	～	+ 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage		V_F	V	1.18	1.33	1.48	1.5	1.65	1.8
Input	Trigger LED Forward Current		I_{FT}	mA	−	0.4	3	−	0.35	3
Input	Release LED Forward Current		I_{FC}	mA	0.1	−	−	0.1	−	−
Output	Maximum resistance with output ON	Connection A	R_{ON}	Ω	−	0.045	0.07	−	0.05	0.065
Output	Maximum resistance with output ON	Connection B	R_{ON}	Ω	−	0.022	0.035	−	0.025	0.033
Output	Maximum resistance with output ON	Connection C	R_{ON}	Ω	−	0.011	0.018	−	0.013	0.016
Output	Current leakage when the relay is open		I_{LEAK}	nA	−	−	1000	−	−	1000
Output	Capacitance between terminals		C_{OFF}	pF	−	500	−	−	460	−
Capacitance between I/O terminals			C_{I-O}	pF	−	0.8	−	−	0.8	−
Insulation resistance between I/O terminals			R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time			t_{ON}	ms	−	1.1	5	−	0.45	2
Turn-OFF time			t_{OFF}	ms	−	0.1	1	−	0.1	0.5
Approved standards					UL			UL		
Dimensions										
Terminal arrangement /Internal connections					TOP VIEW 			TOP VIEW 		

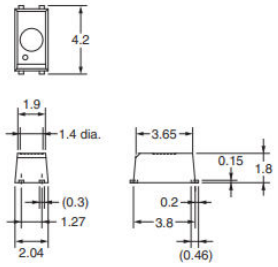
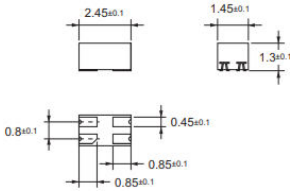
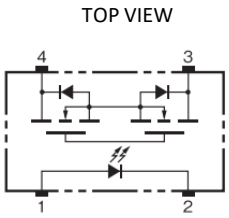
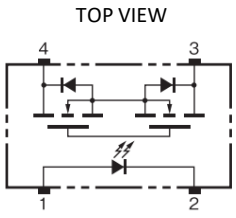
G3VM-21LR / G3VM-21LR(TR05)

Item				Product Discontinuation			Recommended Replacement		
				G3VM-21LR G3VM-21LR(TR05)			G3VM-21UR10 G3VM-21UR10(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	50			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	20			20		
Output	Continuous load current	I_O	mA	160			200		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 125
Electrical Characteristics		Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage	V_F	V	1	1.15	1.3	1.1	1.22	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	−	−	4	−	0.9	3
Input	Release LED Forward Current	I_{FC}	mA	0.2	−	−	0.1	−	−
Output	Maximum resistance with output ON	R_{ON}	Ω	−	5	8	−	3	5
Output	Current leakage when the relay is open	I_{LEAK}	nA	−	−	1	−	−	1
Output	Capacitance between terminals	C_{OFF}	pF	−	1	2.5	−	0.8	1.1
Capacitance between I/O terminals		C_{I-O}	pF	−	0.8	−	−	1	−
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time		t_{ON}	ms	−	0.06	0.5	−	0.05	0.2
Turn-OFF time		t_{OFF}	ms	−	0.12	0.5	−	0.02	0.2
Approved standards				UL			−		
Dimensions									
Terminal arrangement /Internal connections				TOP VIEW 			TOP VIEW 		

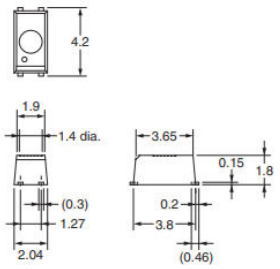
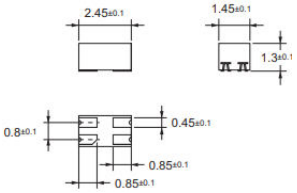
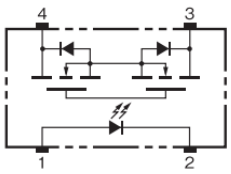
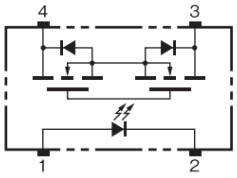
G3VM-21LR10 / G3VM-21LR10(TR05)

Item				Product Discontinuation			Recommended Replacement		
				G3VM-21LR10 G3VM-21LR10(TR05)			G3VM-21UR10 G3VM-21UR10(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	30			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	20			20		
Output	Continuous load current	I_O	mA	200			200		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 125
Electrical Characteristics		Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage	V_F	V	1.15	1.35	1.45	1.1	1.22	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	–	–	3	–	0.9	3
Input	Release LED Forward Current	I_{FC}	mA	0.1	–	–	0.1	–	–
Output	Maximum resistance with output ON	R_{ON}	Ω	–	3	5	–	3	5
Output	Current leakage when the relay is open	I_{LEAK}	nA	–	0.01	0.2	–	–	1
Output	Capacitance between terminals	C_{OFF}	pF	–	0.8	1.1	–	0.8	1.1
Capacitance between I/O terminals		C_{I-O}	pF	–	0.3	–	–	1	–
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	–	1000	1.00E+08	–
Turn-ON time		t_{ON}	ms	–	–	0.2	–	0.05	0.2
Turn-OFF time		t_{OFF}	ms	–	–	0.2	–	0.02	0.2
Approved standards				UL			–		
Dimensions									
Terminal arrangement /Internal connections				TOP VIEW 			TOP VIEW 		

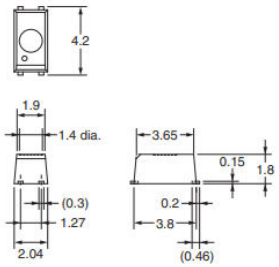
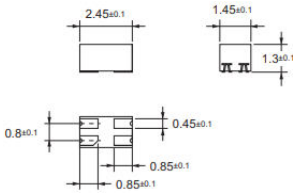
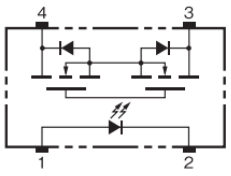
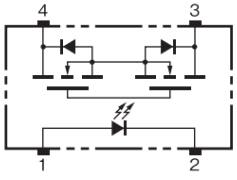
G3VM-21LR1 / G3VM-21LR1(TR05)

Item				Product Discontinuation			Recommended Replacement		
				G3VM-21LR1 G3VM-21LR1(TR05)			G3VM-21UR1 G3VM-21UR1(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	50			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	20			20		
Output	Continuous load current	I_O	mA	450			450		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 125
Electrical Characteristics		Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage	V_F	V	1	1.15	1.3	1.1	1.22	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	–	–	4	–	0.6	3
Input	Release LED Forward Current	I_{FC}	mA	0.2	–	–	0.1	–	–
Output	Maximum resistance with output ON	R_{ON}	Ω	–	0.8	1.2	–	0.8	1.2
Output	Current leakage when the relay is open	I_{LEAK}	nA	–	–	1	–	–	1
Output	Capacitance between terminals	C_{OFF}	pF	–	5	12	–	5	12
Capacitance between I/O terminals		C_{I-O}	pF	–	0.8	–	–	1	–
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	–	1000	1.00E+08	–
Turn-ON time		t_{ON}	ms	–	0.2	0.5	–	0.17	0.4
Turn-OFF time		t_{OFF}	ms	–	0.2	0.5	–	0.03	0.4
Approved standards				UL			–		
Dimensions									
Terminal arrangement /Internal connections									

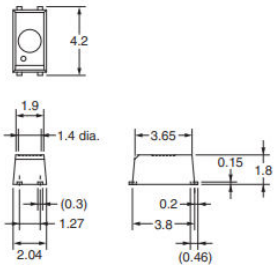
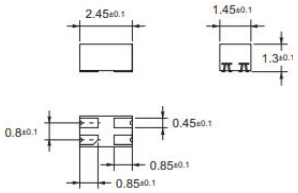
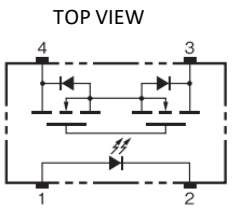
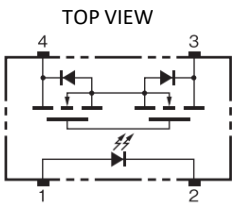
G3VM-21LR11 / G3VM-21LR11(TR05)

Item				Product Discontinuation			Recommended Replacement		
				G3VM-21LR11 G3VM-21LR11(TR05)			G3VM-21UR11 G3VM-21UR11(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	50			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	20			20		
Output	Continuous load current	I_O	mA	900			1,000		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 125
Electrical Characteristics		Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage	V_F	V	1	1.15	1.3	1.1	1.22	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	–	–	3	–	–	3
Input	Release LED Forward Current	I_{FC}	mA	0.1	–	–	0.1	–	–
Output	Maximum resistance with output ON	R_{ON}	Ω	–	0.18	0.22	–	0.18	0.22
Output	Current leakage when the relay is open	I_{LEAK}	nA	–	–	1	–	–	1
Output	Capacitance between terminals	C_{OFF}	pF	–	40	–	–	40	–
Capacitance between I/O terminals		C_{I-O}	pF	–	0.3	–	–	1	–
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	–	1000	1.00E+08	–
Turn-ON time		t_{ON}	ms	–	0.3	2	–	–	2
Turn-OFF time		t_{OFF}	ms	–	0.2	1	–	–	1
Approved standards				UL			–		
Dimensions									
Terminal arrangement /Internal connections				TOP VIEW 			TOP VIEW 		

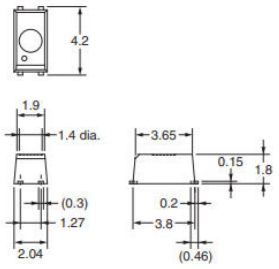
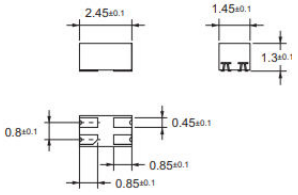
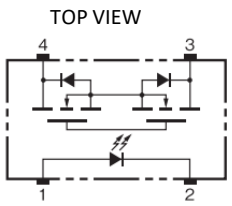
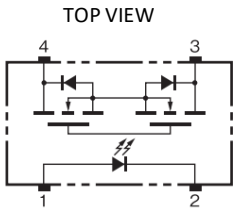
G3VM-41LR4 / G3VM-41LR4(TR05)

Item				Product Discontinuation			Recommended Replacement		
				G3VM-41LR4 G3VM-41LR4(TR05)			G3VM-41UR4 G3VM-41UR4(TR05)		
Type									
	Package			SSOP4			VSON4		
	Contact form			1a(SPST-NO)			1a(SPST-NO)		
	Terminal structure			Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	50			30		
Input	LED reverse voltage	V_R	V	5			6		
Output	Load Voltage(AC/DC)	V_{OFF}	V	40			40		
Output	Continuous load current	I_O	mA	250			250		
	Dielectric strength between input and output	V_{I-O}	Vrms	1,500			500		
	Operating Temperature	T_a	℃	−20	～	+ 85	−40	～	+ 110
	Storage Temperature	T_{stg}	℃	−40	～	+ 125	−40	～	+ 125
Electrical Characteristics		Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage	V_F	V	1	1.15	1.3	1.1	1.27	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	–	–	4	–	0.8	3
Input	Release LED Forward Current	I_{FC}	mA	0.2	–	–	0.1	–	–
Output	Maximum resistance with output ON	R_{ON}	Ω	–	2	3	–	2	3
Output	Current leakage when the relay is open	I_{LEAK}	nA	–	–	1	–	–	1
Output	Capacitance between terminals	C_{OFF}	pF	–	5	7	–	5	7
	Capacitance between I/O terminals	C_{I-O}	pF	–	0.8	–	–	1	–
	Insulation resistance between I/O terminals	R_{I-O}	MΩ	1000	1.00E+08	–	1000	1.00E+08	–
	Turn-ON time	t_{ON}	ms	–	0.12	0.5	–	0.08	0.3
	Turn-OFF time	t_{OFF}	ms	–	0.14	0.5	–	0.04	0.3
	Approved standards			UL			–		
	Dimensions								
	Terminal arrangement /Internal connections			TOP VIEW 			TOP VIEW 		

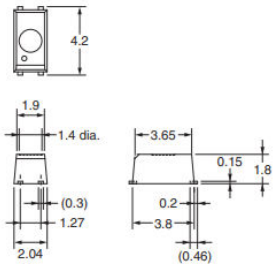
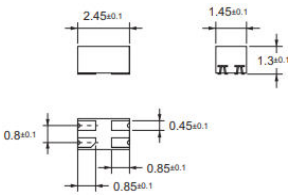
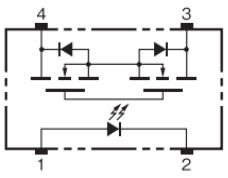
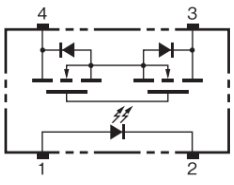
G3VM-41LR5 / G3VM-41LR5(TR05)

Item				Product Discontinuation			Recommended Replacement		
				G3VM-41LR5 G3VM-41LR5(TR05)			G3VM-41UR12 G3VM-41UR12(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	50			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	40			40		
Output	Continuous load current	I_O	mA	300			100		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 125
Electrical Characteristics		Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage	V_F	V	1	1.15	1.3	1.1	1.27	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	–	–	4	–	0.9	3
Input	Release LED Forward Current	I_{FC}	mA	0.2	–	–	0.1	–	–
Output	Maximum resistance with output ON	R_{ON}	Ω	–	1	1.5	–	15	20
Output	Current leakage when the relay is open	I_{LEAK}	nA	–	–	1	–	–	1
Output	Capacitance between terminals	C_{OFF}	pF	–	10	14	–	0.3	0.6
Capacitance between I/O terminals		C_{I-O}	pF	–	0.8	–	–	1	–
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	–	1000	1.00E+08	–
Turn-ON time		t_{ON}	ms	–	0.2	0.5	–	0.05	0.2
Turn-OFF time		t_{OFF}	ms	–	0.2	0.5	–	0.03	0.2
Approved standards				UL			–		
Dimensions									
Terminal arrangement /Internal connections									

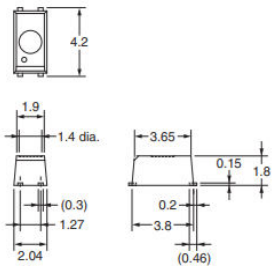
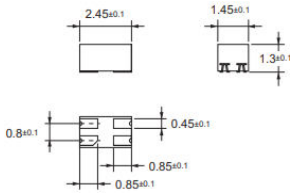
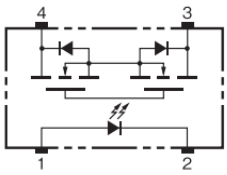
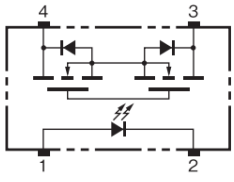
G3VM-41LR6 / G3VM-41LR6(TR05)

Item				Product Discontinuation			Recommended Replacement		
				G3VM-41LR6 G3VM-41LR6(TR05)			G3VM-41UR12 G3VM-41UR12(TR05)		
Type									
	Package			SSOP4			VSON4		
	Contact form			1a(SPST-NO)			1a(SPST-NO)		
	Terminal structure			Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	50			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	40			40		
Output	Continuous load current	I_O	mA	120			100		
	Dielectric strength between input and output	V_{I-O}	Vrms	1,500			500		
	Operating Temperature	T_a	℃	−20	～	+ 85	−40	～	+ 110
	Storage Temperature	T_{stg}	℃	−40	～	+ 125	−40	～	+ 125
Electrical Characteristics		Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage	V_F	V	1	1.15	1.3	1.1	1.27	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	–	–	4	–	0.9	3
Input	Release LED Forward Current	I_{FC}	mA	0.2	–	–	0.1	–	–
Output	Maximum resistance with output ON	R_{ON}	Ω	–	10	15	–	15	20
Output	Current leakage when the relay is open	I_{LEAK}	nA	–	–	1	–	–	1
Output	Capacitance between terminals	C_{OFF}	pF	–	1	2	–	0.3	0.6
	Capacitance between I/O terminals	C_{I-O}	pF	–	0.8	–	–	1	–
	Insulation resistance between I/O terminals	R_{I-O}	MΩ	1000	1.00E+08	–	1000	1.00E+08	–
	Turn-ON time	t_{ON}	ms	–	0.05	0.5	–	0.05	0.2
	Turn-OFF time	t_{OFF}	ms	–	0.12	0.5	–	0.03	0.2
	Approved standards			UL			–		
	Dimensions								
	Terminal arrangement /Internal connections								

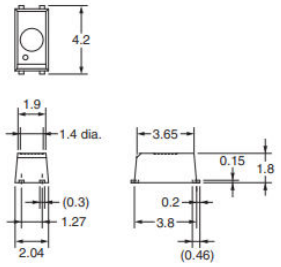
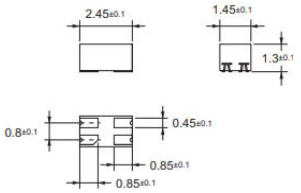
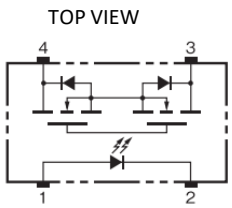
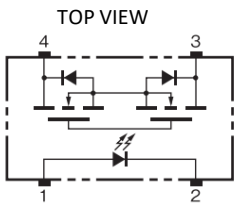
G3VM-41LR10 / G3VM-41LR10(TR05)

Item				Product Discontinuation			Recommended Replacement		
				G3VM-41LR10 G3VM-41LR10(TR05)			G3VM-41UR10 G3VM-41UR10(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	30			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	40			40		
Output	Continuous load current	I_O	A	0.12			0.12		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 125
Electrical Characteristics		Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage	V_F	V	1.15	1.35	1.45	1.1	1.27	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	–	–	3	–	–	3
Input	Release LED Forward Current	I_{FC}	mA	0.1	–	–	0.1	–	–
Output	Maximum resistance with output ON	R_{ON}	Ω	–	12	14	–	12	14
Output	Current leakage when the relay is open	I_{LEAK}	nA	–	0.01	0.2	–	–	1
Output	Capacitance between terminals	C_{OFF}	pF	–	0.45	0.8	–	0.45	0.8
Capacitance between I/O terminals		C_{I-O}	pF	–	0.3	–	–	1	–
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	–	1000	1.00E+08	–
Turn-ON time		t_{ON}	ms	–	–	0.2	–	–	0.2
Turn-OFF time		t_{OFF}	ms	–	–	0.3	–	–	0.3
Approved standards				UL			–		
Dimensions									
Terminal arrangement /Internal connections				TOP VIEW 			TOP VIEW 		

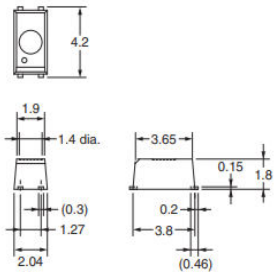
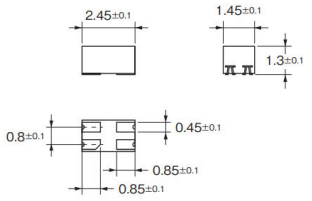
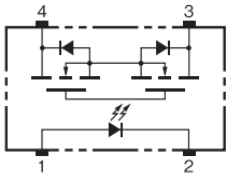
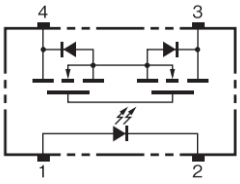
G3VM-41LR11 / G3VM-41LR11(TR05)

Item				Product Discontinuation			Recommended Replacement		
				G3VM-41LR11 G3VM-41LR11(TR05)			G3VM-41UR11 G3VM-41UR11(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating			Symbol / Unit	Rating			Rating		
Input	LED forward current		I_F / mA	30			30		
Input	LED reverse voltage		V_R / V	5			5		
Output	Load Voltage(AC/DC)		V_{OFF} / V	40			40		
Output	Continuous load current		I_O / A	0.14			0.14		
Dielectric strength between input and output			V_{I-O} / Vrms	1,500			500		
Operating Temperature			T_a / ℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature			T_{stg} / ℃	−40	～	+ 125	−40	～	+ 125
Electrical Characteristics			Symbol / Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage		V_F / V	1.15	1.3	1.45	1.1	1.27	1.4
Input	Trigger LED Forward Current		I_{FT} / mA	–	–	3	–	0.7	3
Input	Release LED Forward Current		I_{FC} / mA	0.1	–	–	0.1	–	–
Output	Maximum resistance with output ON		R_{ON} / Ω	–	7	10	–	5	10
Output	Current leakage when the relay is open		I_{LEAK} / nA	–	0.01	0.2	–	–	1
Output	Capacitance between terminals		C_{OFF} / pF	–	0.7	1.3	–	0.7	1.3
Capacitance between I/O terminals			C_{I-O} / pF	–	0.3	–	–	1	–
Insulation resistance between I/O terminals			R_{I-O} / MΩ	1000	1.00E+08	–	1000	1.00E+08	–
Turn-ON time			t_{ON} / ms	–	–	0.2	–	0.06	0.2
Turn-OFF time			t_{OFF} / ms	–	–	0.2	–	0.03	0.2
Approved standards				UL			–		
Dimensions									
Terminal arrangement /Internal connections				TOP VIEW 			TOP VIEW 		

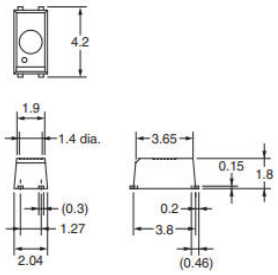
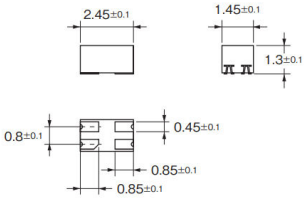
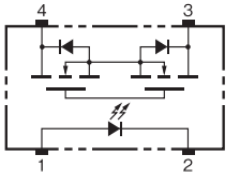
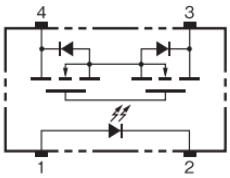
G3VM-61LR / G3VM-61LR(TR05)

Item				Product Discontinuation			Recommended Replacement		
				G3VM-61LR G3VM-61LR(TR05)			G3VM-61UR G3VM-61UR(TR05)		
Type									
	Package			SSOP4			VSON4		
	Contact form			1a(SPST-NO)			1a(SPST-NO)		
	Terminal structure			Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	50			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	60			60		
Output	Continuous load current	I_O	mA	400			400		
	Dielectric strength between input and output	V_{I-O}	Vrms	1,500			500		
	Operating Temperature	T_a	℃	−20	～	+ 85	−40	～	+ 110
	Storage Temperature	T_{stg}	℃	−40	～	+ 125	−40	～	+ 125
Electrical Characteristics		Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage	V_F	V	1	1.15	1.3	1.1	1.22	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	–	2	5	–	–	3
Input	Release LED Forward Current	I_{FC}	mA	0.2	–	–	0.1	–	–
Output	Maximum resistance with output ON	R_{ON}	Ω	–	1	1.5	–	1	1.5
Output	Current leakage when the relay is open	I_{LEAK}	nA	–	–	1000	–	–	1
Output	Capacitance between terminals	C_{OFF}	pF	–	20	30	–	20	–
	Capacitance between I/O terminals	C_{I-O}	pF	–	0.3	–	–	1	–
	Insulation resistance between I/O terminals	R_{I-O}	MΩ	1000	1.00E+08	–	1000	1.00E+08	–
	Turn-ON time	t_{ON}	ms	–	0.3	1	–	–	0.5
	Turn-OFF time	t_{OFF}	ms	–	0.2	1	–	–	0.5
	Approved standards			UL			–		
	Dimensions								
	Terminal arrangement /Internal connections								

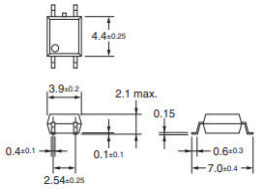
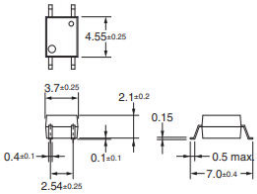
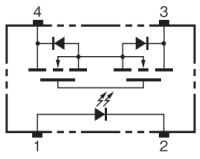
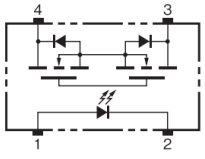
G3VM-81LR / G3VM-81LR(TR05)

Item				Product Discontinuation			Recommended Replacement		
				G3VM-81LR G3VM-81LR(TR05)			G3VM-81UR G3VM-81UR(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	50			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	80			80		
Output	Continuous load current	I_O	mA	120			120		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 125
Electrical Characteristics		Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage	V_F	V	1	1.15	1.3	1.1	1.22	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	−	2	5	−	−	3
Input	Release LED Forward Current	I_{FC}	mA	0.1	−	−	0.1	−	−
Output	Maximum resistance with output ON	R_{ON}	Ω	−	7.5	12	−	7	12
Output	Current leakage when the relay is open	I_{LEAK}	nA	−	−	0.2	−	−	0.02
Output	Capacitance between terminals	C_{OFF}	pF	−	5	7	−	5	7
Capacitance between I/O terminals		C_{I-O}	pF	−	0.8	−	−	1	−
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	−	−	1.00E+08	−
Turn-ON time		t_{ON}	ms	−	0.1	0.25	−	−	0.5
Turn-OFF time		t_{OFF}	ms	−	0.15	0.2	−	−	0.2
Approved standards				UL			−		
Dimensions									
Terminal arrangement /Internal connections				TOP VIEW 			TOP VIEW 		

G3VM-101LR / G3VM-101LR(TR05)

Item				Product Discontinuation			Recommended Replacement		
				G3VM-101LR G3VM-101LR(TR05)			G3VM-101UR G3VM-101UR(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	50			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	100			100		
Output	Continuous load current	I_O	mA	80			100		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 125
Electrical Characteristics		Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage	V_F	V	1	1.15	1.3	1.1	1.22	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	−	1	5	−	−	3
Input	Release LED Forward Current	I_{FC}	mA	0.2	−	−	0.1	−	−
Output	Maximum resistance with output ON	R_{ON}	Ω	−	8	14	−	8	14
Output	Current leakage when the relay is open	I_{LEAK}	nA	−	−	0.2	−	−	0.2
Output	Capacitance between terminals	C_{OFF}	pF	−	6	8	−	6	8
Capacitance between I/O terminals		C_{I-O}	pF	−	0.6	−	−	1	−
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time		t_{ON}	ms	−	0.1	0.3	−	−	0.3
Turn-OFF time		t_{OFF}	ms	−	0.1	0.3	−	−	0.3
Approved standards				UL			−		
Dimensions									
Terminal arrangement /Internal connections				TOP VIEW 			TOP VIEW 		

G3VM-41GR8 / G3VM-41GR8(TR)

Item				Product Discontinuation G3VM-41GR8 G3VM-41GR8(TR)			Recommended Replacement G3VM-61VR G3VM-61VR(TR)		
Type									
Package				SOP4			Special SOP4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	30			50		
Input	LED reverse voltage	V_R	V	5			6		
Output	Load Voltage(AC/DC)	V_{OFF}	V	40			60		
Output	Continuous load current	I_O	A	1			1.4		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			3,750		
Operating Temperature		T_a	℃	−40	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−55	～	+ 125	−40	～	+ 125
Electrical Characteristics		Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage	V_F	V	1.18	1.33	1.48	1.1	1.27	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	–	1	3	–	1	3
Input	Release LED Forward Current	I_{FC}	mA	0.1	–	–	0.1	–	–
Output	Maximum resistance with output ON	R_{ON}	mΩ	–	100	130	–	130	250
Output	Current leakage when the relay is open	I_{LEAK}	nA	–	–	1	–	2	1000
Output	Capacitance between terminals	C_{OFF}	pF	–	300	–	–	100	–
Capacitance between I/O terminals		C_{I-O}	pF	–	0.8	–	–	0.8	–
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	–	1000	1.00E+08	–
Turn-ON time		t_{ON}	ms	–	1.2	3	–	2	3
Turn-OFF time		t_{OFF}	ms	–	0.2	0.5	–	0.1	1
Approved standards				UL			UL		
Dimensions									
Terminal arrangement /Internal connections				TOP VIEW 			TOP VIEW 		

* Sales teams should communicate this discontinuation with their OEM's and CEM's.
For further technical support and any questions, please communicate with Product Marketing.

Specifications in this product news are as of the issue date and are subject to change without notice.
Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.
This PCN is intended for use in the Americas
Last time buy dates are subject to change based on availability

Last Time Buy = Last Business Day in February, 2027. (Friday, Feburary 26, 2

NOTE: The entire G3VM family is NOT being discontinued. Only select -HR, -LR and

Listed Items:
Highlighted cells exist with Omron Electronic Component's computer system.
Models with non-highlighted cells do not currently exist within Omron Electronic Cor

JDE Part Number	Discontinued Models
G3VM21HR	G3VM-21HR
G3VM21HRTR	G3VM-21HR(TR)
G3VM31HR	G3VM-31HR
G3VM31HRTR05	G3VM-31HR(TR05)
G3VM41HR	G3VM-41HR
G3VM41HRTR	G3VM-41HR(TR)
G3VM61HR	G3VM-61HR
G3VM61HRTR	G3VM-61HR(TR)
G3VM61HR1	G3VM-61HR1
G3VM61HR1TR05	G3VM-61HR1(TR05)
G3VM81HR	G3VM-81HR
G3VM81HRTR	G3VM-81HR(TR)
G3VM101HR	G3VM-101HR
G3VM101HRTR	G3VM-101HR(TR)
G3VM101HR1	G3VM-101HR1
G3VM101HR1TR05	G3VM-101HR1(TR05)
G3VM21LR	G3VM-21LR
G3VM21LRTR05	G3VM-21LR(TR05)
G3VM21LR10TR05	G3VM-21LR10(TR05)
G3VM21LR1TR05	G3VM-21LR1(TR05)
G3VM21LR11TR05	G3VM-21LR11(TR05)
G3VM41LR4TR05	G3VM-41LR4(TR05)
G3VM41LR5TR05	G3VM-41LR5(TR05)
G3VM41LR6TR05	G3VM-41LR6(TR05)
G3VM41LR10TR05	G3VM-41LR10(TR05)
G3VM41LR11TR05	G3VM-41LR11(TR05)
G3VM61LRTR05	G3VM-61LR(TR05)
G3VM81LRTR05	G3VM-81LR(TR05)
G3VM101LRTR05	G3VM-101LR(TR05)
G3VM41GR8	G3VM-41GR8
G3VM41GR8TR	G3VM-41GR8(TR)
G3VM41GR5TRS	G3VM-41GR5(TR)#S
G3VM61BR1S	G3VM-61BR1#S
G3VM81G1TRS	G3VM-81G1(TR)#S

	G3VM-21LR1
	G3VM-21LR10
	G3VM-21LR11
	G3VM-41LR10
	G3VM-41LR11
	G3VM-41LR4
	G3VM-41LR5
	G3VM-41LR6
	G3VM-61LR
	G3VM-81LR
	G3VM-101LR
	G3VM-61HR1(TR05)#S
	G3VM-21LR10(TR05)#S
	G3VM-21PR10(TR05)#S
	G3VM-401DY1(TR05)#S
	G3VM-61DY1(TR05)#S
	G3VM-61G2(TR)#S
	G3VM-201G(TR)#S

NOTE 1: The remaining models of the G3VM series of PCB Power Relays are NOT be

NOTE 2: Please use careful consideration when evaluating the suggested replaceme

NOTE 3: The replacement's encaspulation color may vary versus the discontinued it

Reference: PCN# REL-270A; G3VM -HR_

027)

l -GR models are being discontinued.

nponent's computer system.

Notes regarding Discontinued Items	JDE Part Number
Set up in the system - these will be discontinued.	G3VM31HR1
	G3VM31HR1TR05
	G3VM31HR1
	G3VM31HR1TR05
	G3VM61HR2
	G3VM61HR2TR05
	G3VM61HR2
	G3VM61HR2TR05
	G3VM61HR2
	G3VM61HR2TR05
	G3VM101HR2
	G3VM101HR2TR
	G3VM101HR2
	G3VM101HR2TR
	G3VM101HR2
	G3VM101HR2TR05
	G3VM21UR10
	G3VM21UR10TR05
	G3VM21UR10TR05
	G3VM21UR1TR05
	G3VM21UR11TR05
	G3VM41UR4TR05
	G3VM41UR12TR05
	G3VM41UR12TR05
	G3VM41UR10TR05
	G3VM41UR11TR05
	G3VM61URTR05
	G3VM81URTR05
	G3VM101URTR05
	G3VM61VR
	G3VM61VRTRTHA
	G3VM41GR5TR
	G3VM61BR2
	G3VM81GR1TR

These will not be in the system.	G3VM21UR1
	G3VM21UR10
	G3VM21UR11
	G3VM41UR11
	G3VM41UR12
	G3VM41UR12
	G3VM61HR2TR05
	G3VM21UR10TR05
	G3VM21PR10TR05
	G3VM401DY1TR05
	G3VM61DY1TR05
	G3VMS5TR

ing discontinued.

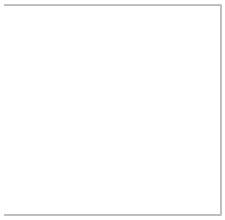
nts.

em.

_LR_G R- Partial Discontinuation. SpaceFinder: 20260129_DOP_00002 (Original = 2025122

Suggested Replacements
G3VM-31HR1
G3VM-31HR1(TR05)
G3VM-31HR1
G3VM-31HR1(TR05)
G3VM-61HR2
G3VM-61HR2(TR05)
G3VM-61HR2
G3VM-61HR2(TR05)
G3VM-61HR2
G3VM-61HR2(TR05)
G3VM-101HR2
G3VM-101HR2(TR)
G3VM-101HR2
G3VM-101HR2(TR)
G3VM-101HR2
G3VM-101HR2(TR05)
G3VM-21UR10
G3VM-21UR10(TR05)
G3VM-21UR10(TR05)
G3VM-21UR1(TR05)
G3VM-21UR11(TR05)
G3VM-41UR4(TR05)
G3VM-41UR12(TR05)
G3VM-41UR12(TR05)
G3VM-41UR10(TR05)
G3VM-41UR11(TR05)
G3VM-61UR(TR05)
G3VM-81UR(TR05)
G3VM-101UR(TR05)
G3VM-61VR
G3VM-61VR(TR)(THA)
G3VM-41GR5(TR)
G3VM-61BR2
G3VM-81GR1(TR)

G3VM-21UR1
G3VM-21UR10
G3VM-21UR11
G3VM-41UR10
G3VM-41UR11
G3VM-41UR4
G3VM-41UR12
G3VM-41UR12
G3VM-61UR
G3VM-81UR
G3VM-101UR
G3VM-61HR2(TR05)
G3VM-21UR10(TR05)
G3VM-21PR10(TR05)
G3VM-401DY1(TR05)
G3VM-61DY1(TR05)
G3VM-61G2(TR)
G3VM-S5(TR)



2_DOP_00001)