

NO: REL - 270
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 March 31, 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 March 2027 (March 31, 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

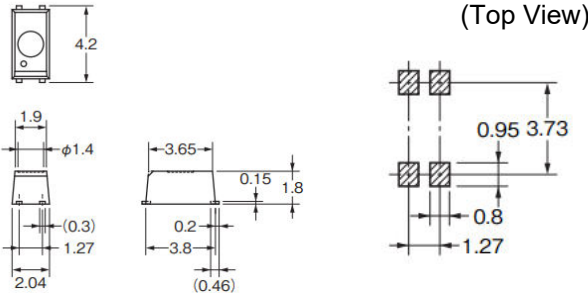
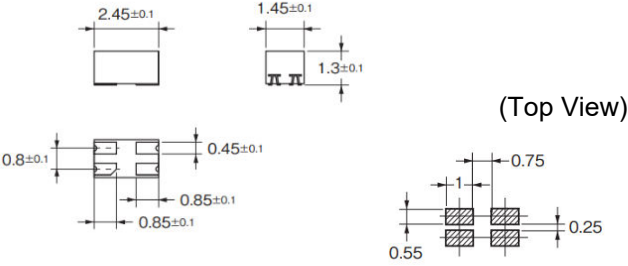
Discontinued Models	Suggested Replacements
G3VM-21HR	G3VM-31HR1
G3VM-21HR(TR)	G3VM-31HR1(TR05)
G3VM-31HR	G3VM-31HR1
G3VM-31HR(TR05)	G3VM-31HR1(TR05)
G3VM-41HR	G3VM-61HR2
G3VM-41HR(TR)	G3VM-61HR2(TR05)
G3VM-61HR	G3VM-61HR2
G3VM-61HR(TR)	G3VM-61HR2(TR05)
G3VM-61HR1	G3VM-61HR2
G3VM-61HR1(TR05)	G3VM-61HR2(TR05)
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

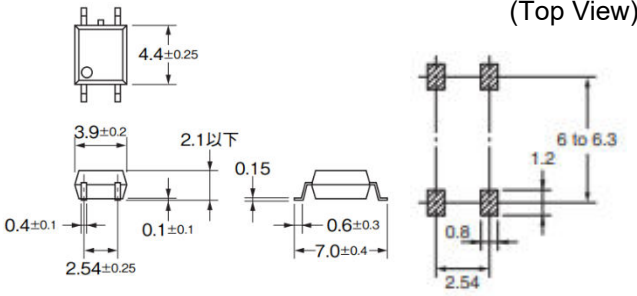
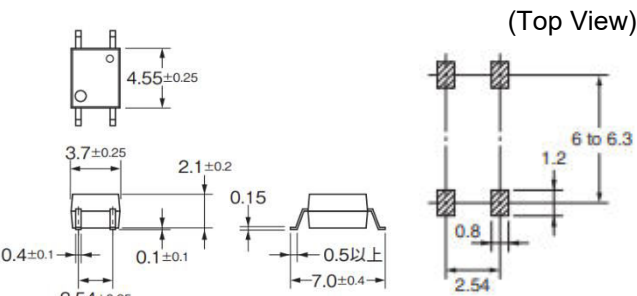
Discontinued Models	Suggested Replacement s
G3VM-21LR1(TR05)	G3VM-21UR1(TR05)
G3VM-21LR11	G3VM-21UR11
G3VM-21LR11(TR05)	G3VM-21UR11(TR05)
G3VM-41LR4	G3VM-41UR4
G3VM-41LR4(TR05)	G3VM-41UR4(TR05)
G3VM-41LR5	G3VM-41UR12
G3VM-41LR5(TR05)	G3VM-41UR12(TR05)
G3VM-41LR6	G3VM-41UR12
G3VM-41LR6(TR05)	G3VM-41UR12(TR05)
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)
<p>G3VM-21HR / G3VM-31HR G3VM-41HR / G3VM-61HR / G3VM-61HR1 G3VM-81HR / G3VM-101HR / G3VM-101HR1</p>	<p>G3VM-31HR1 G3VM-61HR2 G3VM-101HR2</p>
<p>Color = White</p> <p>(Top View)</p>	<p>Color = White</p> <p>Same as Left</p>

Dimensions and PCB Layout (Continued)

Discontinued G3VM-LR Models (Including (TR05) Tape and Reel models)	Suggested Replacements (Including and (TR05) Tape and Reel models)
<p style="text-align: center;">G3VM-21LR / G3VM-21LR10 G3VM-21LR1 G3VM-21LR11 G3VM-41LR4 / G3VM-41LR5, -41LR6 G3VM-41LR10 / G3VM-41LR11 G3VM-61LR / G3VM-81LR / G3VM-101LR</p>	<p style="text-align: center;">G3VM-21UR10 G3VM-21UR1 G3VM-21UR11 G3VM-41UR4 / G3VM-41UR12 G3VM-41UR10 / G3VM-41UR11 G3VM-61UR / G3VM-81UR / G3VM-101UR</p>
<p>Color = White</p>  <p style="text-align: right;">(Top View)</p>	<p>Color = Black</p>  <p style="text-align: right;">(Top View)</p>

Discontinued G3VM-GR Model (Including (TR) Tape and Reel models)	Suggested Replacements (Including (TR) Tape and Reel models)
<p style="text-align: center;">G3VM-41GR8</p>	<p style="text-align: center;">G3VM-61VR</p>
<p>Color = White</p>  <p style="text-align: right;">(Top View)</p>	<p>Color = Black</p>  <p style="text-align: right;">(Top View)</p>

* 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		
	LED reverse voltage			V_R	V	5			6		
Output	Load Voltage(AC/DC)			V_{OFF}	V	20			30		
	Continuous load current	Connection A		I_O	A	2.5			4.5		
		Connection B				5.0			9		
Connection C											
Dielectric strength between input and output				V_{iO}	Vrms	1,500			1,500		
Operating Temperature				T_a	°C	-40 ~ + 85			-40 ~ + 110		
Storage Temperature				T_{stg}	°C	-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
	Trigger LED Forward Current			I_{FT}	mA	-	-	3	-	0.3	3
	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
		Connection B				-	0.01	0.025	-	0.011	0.015
		Connection C				-	0.005	-	-	0.006	0.008
	Current leakage when the relay is open			I_{LEAK}	nA	-	-	10	-	-	1000
Capacitance between terminals			C_{OFF}	pF	-	1000	-	-	1200	-	
Capacitance between I/O terminals				C_{iO}	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/O terminals				R_{iO}	M Ω	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											

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		
	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	30			30		
	Continuous load current	Connection A	I_O	A	4.0			4.5		
		Connection B			8.0			9		
Connection C										
Dielectric strength between input and output			V_{LO}	Vrms	1,500			1,500		
Operating Temperature			T_a	°C	-40	~	+ 85	-40	~ + 110	
Storage Temperature			T_{stg}	°C	-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
	Trigger LED Forward Current		I_{FT}	mA	-	0.3	3	-	0.3	3
	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
		Connection B			-	0.008	0.02	-	0.011	0.015
		Connection C			-	0.004	0.01	-	0.006	0.008
Current leakage when the relay is open		I_{LEAK}	nA	-	-	1000	-	-	1000	
Capacitance between terminals		C_{OFF}	pF	-	1100	-	-	1200	-	
Capacitance between I/O terminals		C_{LO}	pF	-	0.8	-	-	0.8	-	
Insulation resistance between I/O terminals		R_{LO}	M Ω	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				<p>TOP VIEW</p>			<p>TOP VIEW</p>			

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

Item				Product Discontinuation			Recommended Replacement			
				G3VM-41HR G3VM-41HR(TR)			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		
	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	40			60		
	Continuous load current	Connection A	I_O	A	2.5			4.0		
		Connection B			5.0			8		
Connection C										
Dielectric strength between input and output			V_{LO}	Vrms	1,500			1,500		
Operating Temperature			T_a	°C	-40	~	+ 85	-40	~	+ 110
Storage Temperature			T_{stg}	°C	-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
	Trigger LED Forward Current		I_{FT}	mA	-	0.4	3	-	0.3	3
	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
		Connection B			-	0.015	0.03	-	0.014	0.02
		Connection C			-	0.008	-	-	0.007	0.01
	Current leakage when the relay is open		I_{LEAK}	nA	-	-	10	-	-	1000
Capacitance between terminals		C_{OFF}	pF	-	1000	-	-	750	-	
Capacitance between I/O terminals		C_{LO}	pF	-	0.8	-	-	0.8	-	
Insulation resistance between I/O terminals		R_{LO}	M Ω	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										

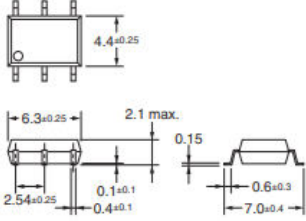
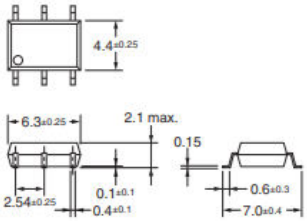
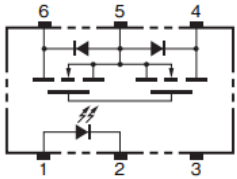
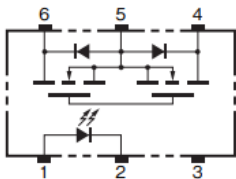
G3VM-61HR / G3VM-61HR(TR)

Item				Product Discontinuation			Recommended Replacement			
				G3VM-61HR G3VM-61HR(TR)			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		
	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	60			60		
	Continuous load current	Connection A	I_O	A	2.3			4.0		
		Connection B			4.6			8		
Connection C										
Dielectric strength between input and output			V_{LO}	Vrms	1,500			1,500		
Operating Temperature			T_a	°C	-40	~	+ 85	-40	~	+ 110
Storage Temperature			T_{stg}	°C	-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
	Trigger LED Forward Current		I_{FT}	mA	-	0.4	3	-	0.3	3
	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
		Connection B			-	0.02	0.04	-	0.014	0.02
		Connection C			-	0.01	-	-	0.007	0.01
Current leakage when the relay is open		I_{LEAK}	nA	-	-	10	-	-	1000	
Capacitance between terminals		C_{OFF}	pF	-	1000	-	-	750	-	
Capacitance between I/O terminals		C_{LO}	pF	-	0.8	-	-	0.8	-	
Insulation resistance between I/O terminals		R_{LO}	M Ω	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				<p>TOP VIEW</p>			<p>TOP VIEW</p>			

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

Item		Product Discontinuation				Recommended Replacement				
		G3VM-61HR1 G3VM-61HR1(TR05)				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			
	LED reverse voltage	V_R	V	5			6			
Output	Load Voltage(AC/DC)	V_{OFF}	V	60			60			
	Continuous load current	Connection A	I_O	A	3.3			4		
		Connection B			6.6			8		
Connection C										
Dielectric strength between input and output		V_{LO}	Vrms	1,500			1,500			
Operating Temperature		T_a	°C	-40	~	+ 85	-40	~	+ 110	
Storage Temperature		T_{stg}	°C	-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	
	Trigger LED Forward Current	I_{FT}	mA	-	0.2	3	-	0.3	3	
	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
		Connection B			-	0.015	-	-	0.014	0.02
		Connection C			-	0.008	-	-	0.007	0.01
Current leakage when the relay is open		I_{LEAK}	nA	-	-	20	-	-	1000	
Capacitance between terminals		C_{OFF}	pF	-	700	1500	-	750	-	
Capacitance between I/O terminals		C_{LO}	pF	-	0.8	-	-	0.8	-	
Insulation resistance between I/O terminals		R_{LO}	M Ω	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		<p>TOP VIEW</p>				<p>TOP VIEW</p>				

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

Item				Product Discontinuation			Recommended Replacement				
				G3VM-81HR G3VM-81HR(TR)			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		
	LED reverse voltage			V_R	V	5			6		
Output	Load Voltage(AC/DC)			V_{OFF}	V	80			100		
	Continuous load current	Connection A		I_O	A	1.25			3.0		
		Connection B				2.5			6		
Connection C											
Dielectric strength between input and output				V_{LO}	Vrms	1,500			1,500		
Operating Temperature				T_a	°C	-40	~	+ 85	-40	~	+ 110
Storage Temperature				T_{stg}	°C	-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
	Trigger LED Forward Current			I_{FT}	mA	-	2	5	-	0.35	3
	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
		Connection B				-	0.06	0.08	-	0.025	0.033
		Connection C				-	0.03	0.04	-	0.013	0.016
Current leakage when the relay is open				I_{LEAK}	nA	-	1.2	1.5	-	-	1000
Capacitance between terminals				C_{OFF}	pF	-	460	1000	-	460	-
Capacitance between I/O terminals				C_{LO}	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/O terminals				R_{LO}	M Ω	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				<p>TOP VIEW</p> 			<p>TOP VIEW</p> 				

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

Item				Product Discontinuation			Recommended Replacement			
				G3VM-101HR G3VM-101HR(TR)			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		
	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	100			100		
	Continuous load current	Connection A	I_o	A	1.4			3		
		Connection B			2.8			6		
Connection C										
Dielectric strength between input and output			V_{IO}	Vrms	1,500			1,500		
Operating Temperature			T_a	°C	-40	~	+ 85	-40	~	+ 110
Storage Temperature			T_{stg}	°C	-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
	Trigger LED Forward Current		I_{FT}	mA	-	0.4	3	-	0.35	3
	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
		Connection B			-	0.05	0.1	-	0.025	0.033
		Connection C			-	0.025	-	-	0.013	0.016
	Current leakage when the relay is open		I_{LEAK}	nA	-	-	10	-	-	1000
Capacitance between terminals		C_{OFF}	pF	-	1000	-	-	460	-	
Capacitance between I/O terminals		C_{IO}	pF	-	0.8	-	-	0.8	-	
Insulation resistance between I/O terminals		R_{IO}	M Ω	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			Recommended Replacement		
			G3VM-101HR1 G3VM-101HR1(TR05)			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	
	LED reverse voltage		V_R	V	5		6	
Output	Load Voltage(AC/DC)		V_{OFF}	V	100		100	
	Continuous load current	Connection A	I_O	A	2.0		3	
		Connection B			4.0		6	
Connection C								
Dielectric strength between input and output			V_{LO}	Vrms	1,500		1,500	
Operating Temperature			T_a	°C	-40	~	+ 85	-40 ~ + 110
Storage Temperature			T_{stg}	°C	-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
	Trigger LED Forward Current		I_{FT}	mA	-	0.4	3	- 0.35 3
	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
		Connection B			-	0.022	0.035	- 0.025 0.033
		Connection C			-	0.011	0.018	- 0.013 0.016
Current leakage when the relay is open		I_{LEAK}	nA	-	-	1000	- - 1000	
Capacitance between terminals		C_{OFF}	pF	-	500	-	- 460 -	
Capacitance between I/O terminals		C_{LO}	pF	-	0.8	-	- 0.8 -	
Insulation resistance between I/O terminals		R_{LO}	M Ω	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			<p>TOP VIEW</p>			<p>TOP VIEW</p>		

G3VM-LR Models

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		
	LED reverse voltage		V_R	V	5			5		
Output	Load Voltage(AC/DC)		V_{OFF}	V	20			20		
	Continuous load current		I_O	mA	160			200		
Dielectric strength between input and output			V_{iO}	Vrms	1,500			500		
Operating Temperature			T_a	°C	-20	~	+ 85	-40	~ + 110	
Storage Temperature			T_{stg}	°C	-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
	Trigger LED Forward Current		I_{FT}	mA	-	-	4	-	0.9	3
	Release LED Forward Current		I_{FC}	mA	0.2	-	-	0.1	-	-
Output	Maximum resistance with output ON		R_{ON}	Ω	-	5	8	-	3	5
	Current leakage when the relay is open		I_{LEAK}	nA	-	-	1	-	-	1
	Capacitance between terminals		C_{OFF}	pF	-	1	2.5	-	0.8	1.1
Capacitance between I/O terminals			C_{iO}	pF	-	0.8	-	-	1	-
Insulation resistance between I/O terminals			R_{iO}	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				<p style="text-align: center;">TOP VIEW</p>			<p style="text-align: center;">TOP VIEW</p>			

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			
	LED reverse voltage			V_R	V	5		5			
Output	Load Voltage(AC/DC)			V_{OFF}	V	20		20			
	Continuous load current			I_O	mA	200		200			
Dielectric strength between input and output				V_{IO}	Vrms	1,500		500			
Operating Temperature				T_a	°C	-20	~	+ 85	-40	~	+ 110
Storage Temperature				T_{stg}	°C	-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
	Trigger LED Forward Current			I_{FT}	mA	-	-	3	-	0.9	3
	Release LED Forward Current			I_{FC}	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON			R_{ON}	Ω	-	3	5	-	3	5
	Current leakage when the relay is open			I_{LEAK}	nA	-	0.01	0.2	-	-	1
	Capacitance between terminals			C_{OFF}	pF	-	0.8	1.1	-	0.8	1.1
Capacitance between I/O terminals				C_{IO}	pF	-	0.3	-	-	1	-
Insulation resistance between I/O terminals				R_{IO}	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											

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		
	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	20			20		
	Continuous load current	I_O	mA	450			450		
Dielectric strength between input and output		V_{LO}	Vrms	1,500			500		
Operating Temperature		T_a	°C	-20	~	+ 85	-40	~	+ 110
Storage Temperature		T_{stg}	°C	-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
	Trigger LED Forward Current	I_{FT}	mA	-	-	4	-	0.6	3
	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
	Current leakage when the relay is open	I_{LEAK}	nA	-	-	1	-	-	1
	Capacitance between terminals	C_{OFF}	pF	-	5	12	-	5	12
Capacitance between I/O terminals		C_{LO}	pF	-	0.8	-	-	1	-
Insulation resistance between I/O terminals		R_{LO}	M Ω	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		
	LED reverse voltage		V_R	V	5			5		
Output	Load Voltage(AC/DC)		V_{OFF}	V	20			20		
	Continuous load current		I_O	mA	900			1,000		
Dielectric strength between input and output			V_{LO}	Vrms	1,500			500		
Operating Temperature			T_a	°C	-20	~	+ 85	-40	~ + 110	
Storage Temperature			T_{stg}	°C	-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
	Trigger LED Forward Current		I_{FT}	mA	-	-	3	-	-	3
	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
	Current leakage when the relay is open		I_{LEAK}	nA	-	-	1	-	-	1
	Capacitance between terminals		C_{OFF}	pF	-	40	-	-	40	-
Capacitance between I/O terminals			C_{LO}	pF	-	0.3	-	-	1	-
Insulation resistance between I/O terminals			R_{LO}	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										

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		
	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	40			40		
	Continuous load current		I_O	mA	250			250		
Dielectric strength between input and output			V_{LO}	Vrms	1,500			500		
Operating Temperature			T_a	°C	-20	~	+ 85	-40	~ + 110	
Storage Temperature			T_{stg}	°C	-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
	Trigger LED Forward Current		I_{FT}	mA	-	-	4	-	0.8	3
	Release LED Forward Current		I_{FC}	mA	0.2	-	-	0.1	-	-
Output	Maximum resistance with output ON		R_{ON}	Ω	-	2	3	-	2	3
	Current leakage when the relay is open		I_{LEAK}	nA	-	-	1	-	-	1
	Capacitance between terminals		C_{OFF}	pF	-	5	7	-	5	7
Capacitance between I/O terminals			C_{LO}	pF	-	0.8	-	-	1	-
Insulation resistance between I/O terminals			R_{LO}	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				<p>TOP VIEW</p>			<p>TOP VIEW</p>			

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		
	LED reverse voltage		V_R	V	5			5		
Output	Load Voltage(AC/DC)		V_{OFF}	V	40			40		
	Continuous load current		I_O	mA	300			100		
Dielectric strength between input and output			V_{LO}	Vrms	1,500			500		
Operating Temperature			T_B	°C	-20	~	+ 85	-40	~ + 110	
Storage Temperature			T_{stg}	°C	-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
	Trigger LED Forward Current		I_{FT}	mA	-	-	4	-	0.9	3
	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
	Current leakage when the relay is open		I_{LEAK}	nA	-	-	1	-	-	1
	Capacitance between terminals		C_{OFF}	pF	-	10	14	-	0.3	0.6
Capacitance between I/O terminals			C_{LO}	pF	-	0.8	-	-	1	-
Insulation resistance between I/O terminals			R_{LO}	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		
	LED reverse voltage		V_R	V	5			5		
Output	Load Voltage(AC/DC)		V_{OFF}	V	40			40		
	Continuous load current		I_O	mA	120			100		
Dielectric strength between input and output			V_{LO}	Vrms	1,500			500		
Operating Temperature			T_B	°C	-20	~	+ 85	-40	~ + 110	
Storage Temperature			T_{stg}	°C	-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
	Trigger LED Forward Current		I_{FT}	mA	-	-	4	-	0.9	3
	Release LED Forward Current		I_{FC}	mA	0.2	-	-	0.1	-	-
Output	Maximum resistance with output ON		R_{ON}	Ω	-	10	15	-	15	20
	Current leakage when the relay is open		I_{LEAK}	nA	-	-	1	-	-	1
	Capacitance between terminals		C_{OFF}	pF	-	1	2	-	0.3	0.6
Capacitance between I/O terminals			C_{LO}	pF	-	0.8	-	-	1	-
Insulation resistance between I/O terminals			R_{LO}	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		
	LED reverse voltage		V_R	V	5			5		
Output	Load Voltage(AC/DC)		V_{OFF}	V	40			40		
	Continuous load current		I_O	A	0.12			0.12		
Dielectric strength between input and output			V_{LO}	Vrms	1,500			500		
Operating Temperature			T_B	°C	-20	~	+ 85	-40	~ + 110	
Storage Temperature			T_{stg}	°C	-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
	Trigger LED Forward Current		I_{FT}	mA	-	-	3	-	-	3
	Release LED Forward Current		I_{FC}	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON		R_{ON}	Ω	-	12	14	-	12	14
	Current leakage when the relay is open		I_{LEAK}	nA	-	0.01	0.2	-	-	1
	Capacitance between terminals		C_{OFF}	pF	-	0.45	0.8	-	0.45	0.8
Capacitance between I/O terminals			C_{LO}	pF	-	0.3	-	-	1	-
Insulation resistance between I/O terminals			R_{LO}	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				<p>TOP VIEW</p>			<p>TOP VIEW</p>			

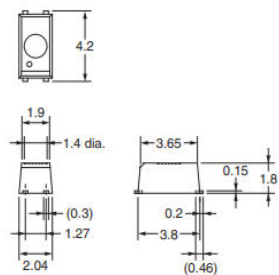
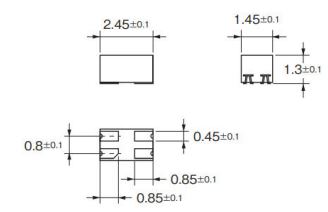
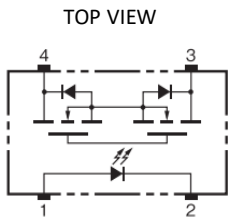
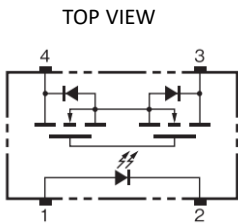
G3VM-41LR11 / G3VM-41LR11(TR05)

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		
	LED reverse voltage		V_R	V	5			5		
Output	Load Voltage(AC/DC)		V_{OFF}	V	40			40		
	Continuous load current		I_O	A	0.14			0.14		
Dielectric strength between input and output			V_{LO}	Vrms	1,500			500		
Operating Temperature			T_B	°C	-20	~	+ 85	-40	~ + 110	
Storage Temperature			T_{stg}	°C	-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
	Trigger LED Forward Current		I_{FT}	mA	-	-	3	-	0.7	3
	Release LED Forward Current		I_{FC}	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON		R_{ON}	Ω	-	7	10	-	5	10
	Current leakage when the relay is open		I_{LEAK}	nA	-	0.01	0.2	-	-	1
	Capacitance between terminals		C_{OFF}	pF	-	0.7	1.3	-	0.7	1.3
Capacitance between I/O terminals			C_{LO}	pF	-	0.3	-	-	1	-
Insulation resistance between I/O terminals			R_{LO}	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				<p>TOP VIEW</p>			<p>TOP VIEW</p>			

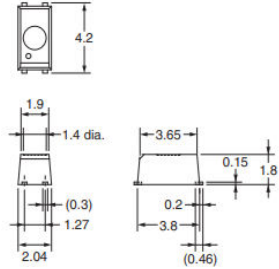
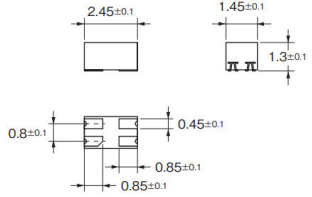
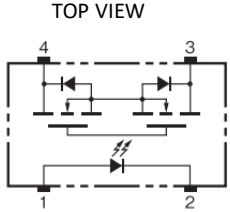
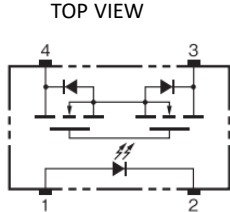
G3VM-61LR / G3VM-61LR(TR05)

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		
	LED reverse voltage		V_R	V	5			5		
Output	Load Voltage(AC/DC)		V_{OFF}	V	60			60		
	Continuous load current		I_O	mA	400			400		
Dielectric strength between input and output			V_{LO}	Vrms	1,500			500		
Operating Temperature			T_B	°C	-20	~	+ 85	-40	~ + 110	
Storage Temperature			T_{stg}	°C	-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
	Trigger LED Forward Current		I_{FT}	mA	-	2	5	-	-	3
	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
	Current leakage when the relay is open		I_{LEAK}	nA	-	-	1000	-	-	1
	Capacitance between terminals		C_{OFF}	pF	-	20	30	-	20	-
Capacitance between I/O terminals			C_{LO}	pF	-	0.3	-	-	1	-
Insulation resistance between I/O terminals			R_{LO}	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)

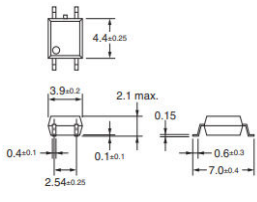
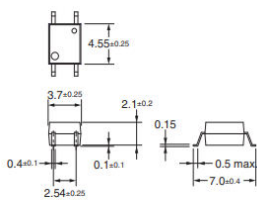
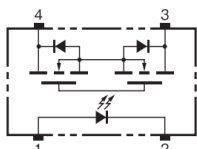
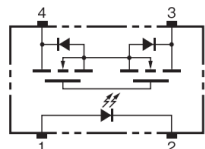
Item				Product Discontinuation			Recommended Replacement				
				G3VM-81LR G3VM-81LR(TR05)			G3VM-81UR G3VM-81UR(TR05)				
Type											
Package				SSOP4			VSON4				
Contact form				1a(SPST-NO)			1a(SPST-NO)				
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals				
Absolute maximum Rating				Symbol	Unit	Rating		Rating			
Input	LED forward current			I_F	mA	50		30			
	LED reverse voltage			V_R	V	5		5			
Output	Load Voltage(AC/DC)			V_{OFF}	V	80		80			
	Continuous load current			I_O	mA	120		120			
Dielectric strength between input and output				V_{LO}	Vrms	1,500		500			
Operating Temperature				T_a	°C	-20	~	+ 85	-40	~ + 110	
Storage Temperature				T_{stg}	°C	-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
	Trigger LED Forward Current			I_{FT}	mA	-	2	5	-	-	3
	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
	Current leakage when the relay is open			I_{LEAK}	nA	-	-	0.2	-	-	0.02
	Capacitance between terminals			C_{OFF}	pF	-	5	7	-	5	7
Capacitance between I/O terminals				C_{LO}	pF	-	0.8	-	-	1	-
Insulation resistance between I/O terminals				R_{LO}	M Ω	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											

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		
	LED reverse voltage		V_R	V	5			5		
Output	Load Voltage(AC/DC)		V_{OFF}	V	100			100		
	Continuous load current		I_O	mA	80			100		
Dielectric strength between input and output			V_{LO}	Vrms	1,500			500		
Operating Temperature			T_a	°C	-20	~	+ 85	-40	~ + 110	
Storage Temperature			T_{stg}	°C	-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
	Trigger LED Forward Current		I_{FT}	mA	-	1	5	-	-	3
	Release LED Forward Current		I_{FC}	mA	0.2	-	-	0.1	-	-
Output	Maximum resistance with output ON		R_{ON}	Ω	-	8	14	-	8	14
	Current leakage when the relay is open		I_{LEAK}	nA	-	-	0.2	-	-	0.2
	Capacitance between terminals		C_{OFF}	pF	-	6	8	-	6	8
Capacitance between I/O terminals			C_{LO}	pF	-	0.6	-	-	1	-
Insulation resistance between I/O terminals			R_{LO}	M Ω	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										

G3VM-GR Models

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

Item	Product Discontinuation			Recommended Replacement		
	G3VM-41GR8 G3VM-41GR8(TR)			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
	LED reverse voltage	V_R	V	5		6
Output	Load Voltage(AC/DC)	V_{OFF}	V	40		60
	Continuous load current	I_O	A	1		1.4
Dielectric strength between input and output		V_{LO}	Vrms	1,500		3,750
Operating Temperature		T_a	°C	-40	~	+ 85
Storage Temperature		T_{sig}	°C	-55	~	+ 125
Electrical Characteristics		Symbol	Unit	Min.	Typ.	Max
Input	LED Forward voltage	V_F	V	1.18	1.33	1.48
	Trigger LED Forward Current	I_{FT}	mA	-	1	3
	Release LED Forward Current	I_{FC}	mA	0.1	-	-
Output	Maximum resistance with output ON	R_{ON}	mΩ	-	100	130
	Current leakage when the relay is open	I_{LEAK}	nA	-	-	1
	Capacitance between terminals	C_{OFF}	pF	-	300	-
Capacitance between I/O terminals		C_{LO}	pF	-	0.8	-
Insulation resistance between I/O terminals		R_{VO}	MΩ	1000	1.00E+08	-
Turn-ON time		t_{ON}	ms	-	1.2	3
Turn-OFF time		t_{OFF}	ms	-	0.2	0.5
Approved standards		UL			UL	
Dimensions						
Terminal arrangement /Internal connections		<p style="text-align: center;">TOP VIEW</p> 			<p style="text-align: center;">TOP VIEW</p> 	

* 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 Working Day in March, 2027. (March 31, 2027)

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

Discontinued JDE Part Number	Discontinued Part Number
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
G3VM21LR1	G3VM-21LR1
G3VM21LR10	G3VM-21LR10
G3VM21LR11	G3VM-21LR11
G3VM41LR10	G3VM-41LR10
G3VM41LR11	G3VM-41LR11
G3VM41LR4	G3VM-41LR4
G3VM41LR5	G3VM-41LR5
G3VM41LR6	G3VM-41LR6
G3VM61LR	G3VM-61LR
G3VM81LR	G3VM-81LR
G3VM101LR	G3VM-101LR
G3VM61HR1TR05	G3VM-61HR1(TR05)#S
G3VM21LR10TR05	G3VM-21LR10(TR05)#S
G3VM21PR10TR05	G3VM-21PR10(TR05)#S
G3VM401DY1TR05	G3VM-401DY1(TR05)#S
G3VM61DY1TR05	G3VM-61DY1(TR05)#S
G3VM61G2	G3VM-61G2(TR)#S
G3VM201G	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 encapsulation color may vary versus the discontinued it

Reference: PCN# REL-270; G3VM -HR_L

I -GR models are being discontinued.

Component's computer system.

Discontinued Marketing Part Number	Notes regarding Discontinued Items
G3VM-21HR	Set up in the system - these will be discontinued.
G3VM-21HR(TR)	
G3VM-31HR	
G3VM-31HR(TR05)	
G3VM-41HR	
G3VM-41HR(TR)	
G3VM-61HR	
G3VM-61HR(TR)	
G3VM-61HR1	
G3VM-61HR1(TR05)	
G3VM-81HR	
G3VM-81HR(TR)	
G3VM-101HR	
G3VM-101HR(TR)	
G3VM-101HR1	
G3VM-101HR1(TR05)	
G3VM-21LR	
G3VM-21LR(TR05)	
G3VM-21LR10(TR05)	
G3VM-21LR11(TR05)	
G3VM-21LR111(TR05)	
G3VM-41LR4(TR05)	
G3VM-41LR5(TR05)	
G3VM-41LR6(TR05)	
G3VM-41LR10(TR05)	
G3VM-41LR11(TR05)	
G3VM-61LR(TR05)	
G3VM-81LR(TR05)	
G3VM-101LR(TR05)	
G3VM-41GR8	
G3VM-41GR8(TR)	
G3VM-41GR5(TR)#S	
G3VM-61BR1#S	

G3VM-81G1(TR)#S	
G3VM-21LR1	These will not be in the system.
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	

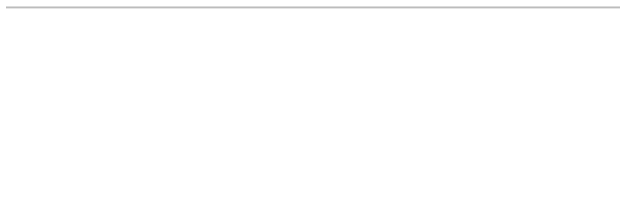
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Suggested JDE Part Number Replacement	Suggested Part Number Replacement
G3VM31HR1	G3VM-31HR1
G3VM31HR1TR05	G3VM-31HR1(TR05)
G3VM31HR1	G3VM-31HR1
G3VM31HR1TR05	G3VM-31HR1(TR05)
G3VM61HR2	G3VM-61HR2
G3VM61HR2TR05	G3VM-61HR2(TR05)
G3VM61HR2	G3VM-61HR2
G3VM61HR2TR05	G3VM-61HR2(TR05)
G3VM61HR2	G3VM-61HR2
G3VM61HR2TR05	G3VM-61HR2(TR05)
G3VM101HR2	G3VM-101HR2
G3VM101HR2TR	G3VM-101HR2(TR)
G3VM101HR2	G3VM-101HR2
G3VM101HR2TR	G3VM-101HR2(TR)
G3VM101HR2	G3VM-101HR2
G3VM101HR2TR05	G3VM-101HR2(TR05)
G3VM21UR10	G3VM-21UR10
G3VM21UR10TR05	G3VM-21UR10(TR05)
G3VM21UR10TR05	G3VM-21UR10(TR05)
G3VM21UR1TR05	G3VM-21UR1(TR05)
G3VM21UR11TR05	G3VM-21UR11(TR05)
G3VM41UR4TR05	G3VM-41UR4(TR05)
G3VM41UR12TR05	G3VM-41UR12(TR05)
G3VM41UR12TR05	G3VM-41UR12(TR05)
G3VM41UR10TR05	G3VM-41UR10(TR05)
G3VM41UR11TR05	G3VM-41UR11(TR05)
G3VM61URTR05	G3VM-61UR(TR05)
G3VM81URTR05	G3VM-81UR(TR05)
G3VM101URTR05	G3VM-101UR(TR05)
G3VM61VR	G3VM-61VR
G3VM61VRTRTHA	G3VM-61VR(TR)(THA)
G3VM41GR5TR	G3VM-41GR5(TR)
G3VM61BR2	G3VM-61BR2

G3VM81GR1TR	G3VM-81GR1(TR)
G3VM21UR1	G3VM-21UR1
G3VM21UR10	G3VM-21UR10
G3VM21UR11	G3VM-21UR11
G3VM41UR10	G3VM-41UR10
G3VM41UR11	G3VM-41UR11
G3VM41UR4	G3VM-41UR4
G3VM41UR12	G3VM-41UR12
G3VM41UR12	G3VM-41UR12
G3VM61UR	G3VM-61UR
G3VM81UR	G3VM-81UR
G3VM101UR	G3VM-101UR
G3VM61HR2TR05	G3VM-61HR2(TR05)
G3VM21UR10TR05	G3VM-21UR10(TR05)
G3VM21PR10TR05	G3VM-21PR10(TR05)
G3VM401DY1TR05	G3VM-401DY1(TR05)
G3VM61DY1TR05	G3VM-61DY1(TR05)
G3VM61G2TR	G3VM-61G2(TR)
G3VMS5TR	G3VM-S5(TR)



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Suggested Marketing Part Number Replacement
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-21UR11(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)
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)