

NO: REL-131
DATE: October 2012

PRODUCT: Select Models, G3VM MOS FET Relays
TYPE: DISCONTINUATION Notice

Select Models G3VM MOS FET Relays DISCONTINUED

Omron has announced the discontinuation of some select models in the G3VM MOS FET relay series as of **March 30, 2013**. Recommended replacements parts and conditions are provided below.

Please communicate and plan/prepare properly with your Customers!!

Discontinued Product

MOS FET RELAY

Model G3VM-353G1(TR)/H1(TR)/A1/D1(TR)/B1/E1(TR)
Model G3VM-354J1(TR)/C1/F1(TR)
Model G3VM-355J(TR)/C/F(TR)
Model G3VM-41GR3(TR)/GR7(TR)/LR3(TR)(TR05)(TR10)



Recommended Replacement

MOS FET RELAY

Model G3VM-353G(TR)/H(TR)/A/D(TR)/B/E(TR)
Model G3VM-354J(TR)/C/F(TR)
Model G3VM-355JR(TR)/CR/FR(TR)
Model G3VM-41GR6(TR)/GR6(TR)/LR6(TR)(TR05)(TR10)

Discontinuation date

End of March, 2013

Recommended Replacement Cautions

- The body color, dimensions, connection, mounting and operation methods are fully compatible.
- For replacement relay of SPST-NC type: On current reduction rate is higher and switching time slows slightly.
- For replacement relay of low C x R type: On current reduction rate and the capacity between outputs is higher

Differences from Discontinued Product

Recommended replacement Model	Body Color	Dimen-sions	Wire connection	Mounting Dimensions	Charact-eristics	Operation ratings	Operation methods
G3VM-353G(TR)/H(TR)/A/D(TR)/B/E(TR)	**	**	**	**	*	*	**
G3VM-354J(TR)/C/F(TR)	**	**	**	**	*	*	**
G3VM-355JR(TR)/CR/FR(TR)	**	**	**	**	*	*	**
G3VM-41GR6(TR)/GR6(TR)/LR6(TR)(TR05)(TR10)	**	**	**	**	*	*	**

** : Fully compatible

* : Change is minimal/Almost compatible

-- : Not compatible

- : No corresponding specification

Product Discontinuation and recommended replacement

Product discontinuation	Recommended replacement
G3VM-353A1	G3VM-353A

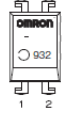

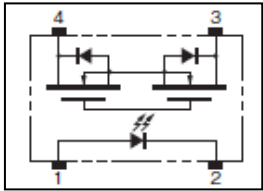
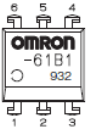
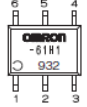
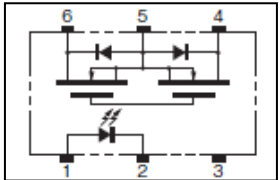
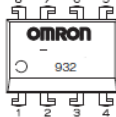
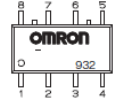
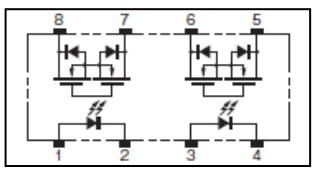
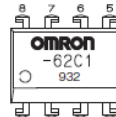
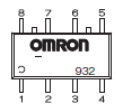
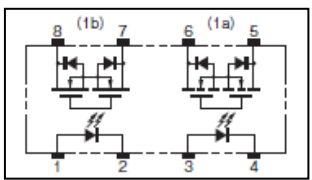
Product discontinuation	Recommended replacement
G3VM-353D1	G3VM-353D
G3VM-353D1(TR)	G3VM-353D(TR)
G3VM-353G1	G3VM-353G
G3VM-353G1(TR)	G3VM-353G(TR)
G3VM-353B1	G3VM-353B
G3VM-353E1	G3VM-353E
G3VM-353E1(TR)	G3VM-353E(TR)
G3VM-353H1	G3VM-353H
G3VM-353H1(TR)	G3VM-353H(TR)
G3VM-354C1	G3VM-354C
G3VM-354F1	G3VM-354F
G3VM-354F1(TR)	G3VM-354F(TR)
G3VM-354J1	G3VM-354J
G3VM-354J1(TR)	G3VM-354J(TR)
G3VM-355C	G3VM-355CR
G3VM-355F	G3VM-355FR
G3VM-355F(TR)	G3VM-355FR(TR)
G3VM-355J	G3VM-355JR
G3VM-355J(TR)	G3VM-355JR(TR)
G3VM-41GR3	G3VM-41GR6
G3VM-41GR3(TR)	G3VM-41GR6(TR)
G3VM-41GR7	G3VM-41GR6
G3VM-41GR7(TR)	G3VM-41GR6(TR)
G3VM-41LR3	G3VM-41LR6
G3VM-41LR3(TR)	G3VM-41LR6(TR)
G3VM-41LR3(TR05)	G3VM-41LR6(TR05)
G3VM-41LR3(TR10)	G3VM-41LR6(TR10)

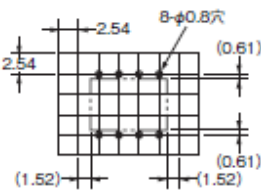
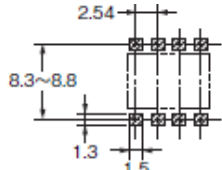
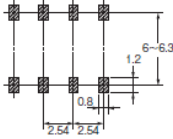
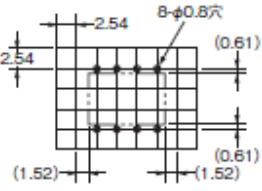
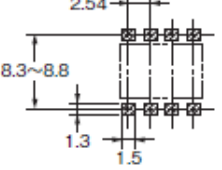
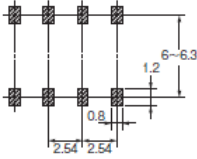
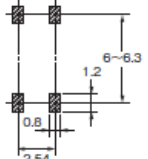
Body color

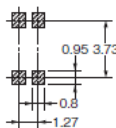
Discontinued Product Discontinuation Notice of Specific models	Recommended replacement Discontinuation Notice of Specific models
White	White (No change)

Wire connection

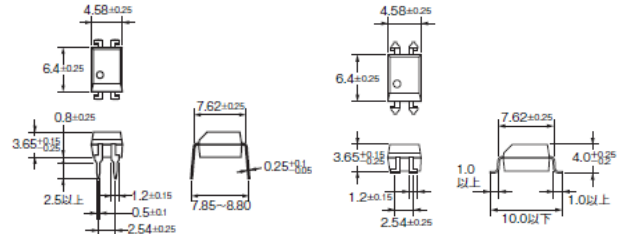
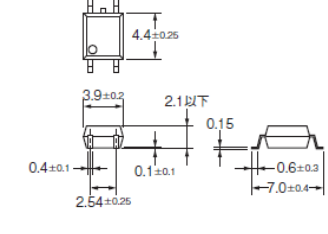
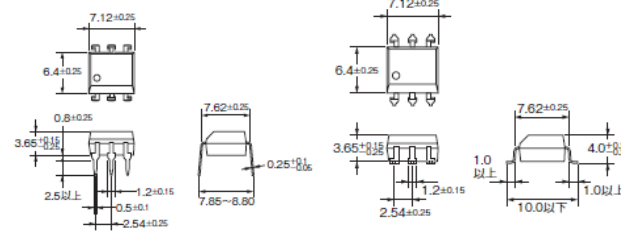
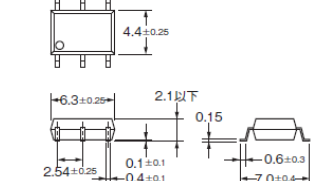
Discontinued Product Discontinuation Notice of Specific models	Recommended replacement Discontinuation Notice of Specific models

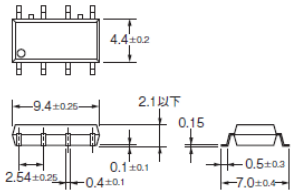
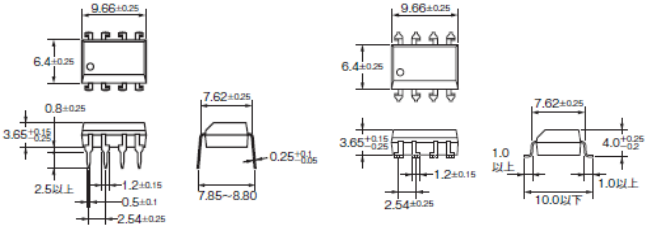
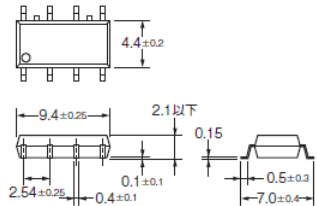
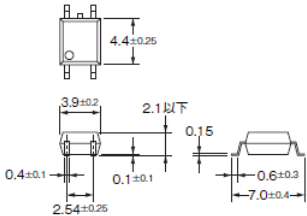
<p>(SPST-NC type) DIP4 G3VM-353A1/D1</p>  <p>SOP4 G3VM-353G1</p>  	<p>(SPST-NC type) DIP4 G3VM-353A/D</p> <p>Same with left.</p> <p>SOP4 G3VM-353G</p> <p>Same with left.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto; margin-right: auto;">Same with left.</div>
<p>(SPST-NC type) DIP6 G3VM-353B1/E1</p>  <p>SOP6 G3VM-353H1</p>  	<p>(SPST-NC type) DIP6 G3VM-353B/E</p> <p>Same with left</p> <p>SOP6 G3VM-353H</p> <p>Same with left</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto; margin-right: auto;">Same with left</div>
<p>(DPST-NC type) DIP8 G3VM-354C1/F1</p>  <p>SOP8 G3VM-354J1</p>  	<p>(DPST-NC type) DIP8 G3VM-354C/F</p> <p>Same with left</p> <p>S O P 8 G3VM-354J</p> <p>Same with left</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto; margin-right: auto;">Same with left</div>
<p>(SPST-NO / SPST-NC type) DIP8 G3VM-355C/F</p>  <p>SOP8 G3VM-355J</p>  	<p>(SPST-NO / SPST-NC type) DIP8 G3VM-355CR/FR</p> <p>Same with left</p> <p>SOP8 G3VM-355JR</p> <p>Same with left</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto; margin-right: auto;">Same with left</div>

<p>(DPST-NC type) DIP8 G3VM-354C1 Bottom View</p>  <p>G3VM-354F1 Top View</p> 	<p>(DPST-NC type) DIP8 G3VM-354C Bottom View</p> <p>G3VM-354F Top View</p> <p>Same with left</p> <p>Same with left</p>
<p>(DPST-NC type) SOP8 G3VM-354J1 Top View</p> 	<p>(DPST-NC type) SOP8 G3VM-354J Top View</p> <p>Same with left</p>
<p>(SPST-NO / SPST-NC type) DIP8 G3VM-355C Bottom View</p>  <p>G3VM-355F Top View</p> 	<p>(SPST-NO / SPST-NC type) DIP8 G3VM-355CR Bottom View</p> <p>G3VM-355FR Top View</p> <p>Same with left</p> <p>Same with left</p>
<p>(SPST-NO / SPST-NC type) SOP8 G3VM-355J Top View</p> 	<p>(SPST-NO / SPST-NC type) SOP8 G3VM-355JR Top View</p> <p>Same with left</p>
<p>(Low C x R, SPST-NO type) SOP4 G3VM-41GR3, -41GR7 Top View</p> 	<p>(Low C x R, SPST-NO type) SOP4 G3VM-41GR6 Top View</p> <p>Same with left</p>

<p>(Low C x R, SPST-NO type) SSOP4 G3VM-41LR3 Top View</p> 	<p>(Low C x R, SPST-NO type) SSOP4 G3VM-41LR6 Top View</p> <p>Same with left</p>
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Dimensions

<p>Discontinued Product Discontinuation Notice of Specific models</p>	<p>Recommended replacement Discontinuation Notice of Specific models</p>
<p>(SPST-NC type) DIP4 G3VM-353A1 G3VM-353D1</p> 	<p>(SPST-NC type) DIP4 G3VM-353A G3VM-353D</p> <p>Same with left Same with left</p>
<p>(SPST-NC type) SOP4 G3VM-353G1</p> 	<p>(SPST-NC type) SOP4 G3VM-353G</p> <p>Same with left</p>
<p>(SPST-NC type) DIP6 G3VM-353B1 G3VM-353E1</p> 	<p>(SPST-NC type) DIP6 G3VM-353B G3VM-353E</p> <p>Same with left Same with left</p>
<p>(SPST-NC type) SOP6 G3VM-353H1</p> 	<p>(SPST-NC type) SOP6 G3VM-353H</p> <p>Same with left</p>

<p>(DPST-NC type) SOP8 G3VM-354J1</p> 	<p>(DPST-NC type) SOP8 G3VM-354J</p> <p style="text-align: center;">Same with left</p>
<p>(SPST-NO / SPST-NC type) DIP8 G3VM-355C G3VM-355F</p> 	<p>(SPST-NO / SPST-NC type) DIP8 G3VM-355CR G3VM-355FR</p> <p style="text-align: center;">Same with left Same with left</p>
<p>(SPST-NO / SPST-NC type) SOP8 G3VM-355J</p> 	<p>(SPST-NO / SPST-NC type) SOP8 G3VM-355JR</p> <p style="text-align: center;">Same with left</p>
<p>(Low C x R, SPST-NO type) SOP4 G3VM-41GR3, -41GR7</p> 	<p>(Low C x R, SPST-NO type) SOP4 G3VM-41GR6</p> <p style="text-align: center;">Same with left</p>

Characteristics/ Operation ratings

(SPST-NC type)

				Product discontinuation G3VM-353A1/D1			Recommended replacement G3VM-353A/D				
Absolute maximum Ratings				Symbol	Unit	Rating			Rating		
Input	LED Forward current			IF	mA	50			50		
	LED reverse voltage			VR	V	5			5		
	Repetitive peak LED forward current			IFP	A	1			1		
Output	Load voltage (Peak AC/ DC)			VOFF	V	350			350		
	Continuous load current (Peak AC/ DC)		Connection A	IO	mA	100			150		
	Continuous load current (DC)		Connection B			-			-		
			Connection C			-			-		
	On current reduction Rate		Connection A	Δ IO/°C	mA/°C	-1			-1.5		
			Connection B			-			-		
			Connection C			-			-		
Dielectric strength between input and output				VI-O	Vrms	2,500			2,500		
Storage Temperature				Tstg	°C	-55 to +125			-55 to +125		
Operating Temperature				Ta	°C	-40 to +85			-40 to +85		
Electrical Characteristics				Symbol	Unit	Min.	Typ.	Max.	Min.	Typ.	Max.
Input	LED Forward voltage			VF	V	1.0	1.15	1.3	1.0	1.15	1.3
Output	Maximum resistance with output ON		Connection A	RON	Ω	-	30	50	-	15	25
			Connection B			-	-	-	-	-	-
			Connection C			-	-	-	-	-	-
	Current leakage when the relay is open			ILEAK	μ A	-	-	1.0	-	-	1.0
Output Capacitance			COFF	pF	-	30	-	-	85	-	
Capacitance between I/ O terminals				CI-O	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/ O				RI-O	M Ω	1,000	-	-	1,000	-	-
Turn- ON time				TON	ms	-	0.25	0.5	-	0.1	1.0
Turn- OFF time				TOFF	ms	-	0.5	1.0	-	1.0	3.0

				Product discontinuation G3VM-353G1		Recommended replacement G3VM-353G		
Absolute maximum Ratings				Symbol	Unit	Rating		
I n p u t	LED Forward current		IF	mA	50			
	LED reverse voltage		VR	V	5			
	Repetitive peak LED forward current		IFP	A	1			
O u t p u t	Load voltage (Peak AC/ DC)		VOFF	V	350			
	Continuous load current (Peak AC/ DC)	Connection A	IO	mA	90			
		Connection B			-			
		Connection C			-			
	On current reduction Rate	Connection A	Δ IO/°C	mA/°C	-0.9			
		Connection B			-			
		Connection C			-			
Dielectric strength between input and output				VI-O	Vrms	1,500		
Storage Temperature				Tstg	°C	-55 to + 125		
Operating Temperature				Ta	°C	-40 to + 85		
Electrical Characteristics				Symbol	Unit	Min.	Typ.	Max.
Input	LED Forward voltage		VF	V	1.0	1.15	1.3	
O u t p u t	Maximum resistance with output ON	Connection A	RON	Ω	-	30	50	
		Connection B			-	-	-	
		Connection C			-	-	-	
	Current leakage when the relay is open		ILEAK	μ A	-	-	1.0	
Output Capacitance		COFF	pF	-	30	-		
Capacitance between I/ O terminals				CI-O	pF	-	0.8	-
Insulation resistance between I/ O				RI-O	M Ω	1,000	-	-
Turn- ON time				TON	ms	-	0.25	1.0
Turn- OFF time				TOFF	ms	-	0.5	1.0
						-	-	3.0

				Product discontinuation G3VM-353B1/E1			Recommended replacement G3VM-353B/E				
Absolute maximum Ratings				Symbol	Unit	Rating			Rating		
I n p u t	LED Forward current			IF	mA	50			50		
	LED reverse voltage			VR	V	5			5		
	Repetitive peak LED forward current			IFP	A	1			1		
O u t p u t	Load voltage (Peak AC/ DC)			VOFF	V	350			350		
	Continuous load current (Peak AC/ DC)	Connection A		IO	mA	100			150		
		Connection B				100			150		
		Connection C				200			300		
	On current reduction Rate	Connection A		Δ IO/°C	mA/°C	-1			-1.5		
		Connection B				-1			-1.5		
		Connection C				-2			-3		
Dielectric strength between input and output				VI-O	Vrms	2,500			2,500		
Storage Temperature				Tstg	°C	-55 to + 125			-55 to + 125		
Operating Temperature				Ta	°C	-40 to + 85			-40 to + 85		
Electrical Characteristics				Symbol	Unit	Min.	Typ.	Max.	Min.	Typ.	Max.
Input	LED Forward voltage			VF	V	1.0	1.15	1.3	1.0	1.15	1.3
O u t p u t	Maximum resistance with output ON	Connection A		RON	Ω	-	27	50	-	15	25
		Connection B				-	20	43	-	8	14
		Connection C				-	10	-	-	4	7
	Current leakage when the relay is open			ILEAK	μ A	-	-	1.0	-	-	1.0
	Output Capacitance			COFF	pF	-	30	-	-	85	-
Capacitance between I/ O terminals				CI-O	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/ O				RI-O	M Ω	1,000	-	-	1,000	-	-
Turn- ON time				TON	ms	-	0.25	0.5	-	0.1	1.0
Turn- OFF time				TOFF	ms	-	0.5	1.0	-	1	3.0

				Product discontinuation G3VM-353H1		Recommended replacement G3VM-353H		
Absolute maximum Ratings				Symbol	Unit	Rating		
I n p u t	LED Forward current		IF	mA	50			
	LED reverse voltage		VR	V	5			
	Repetitive peak LED forward current		IFP	A	1			
O u t p u t	Load voltage (Peak AC/ DC)		VOFF	V	350			
	Continuous load current (DC)	Connection A	IO	mA	90			
		Connection B			120			
		Connection C			240			
	On current reduction Rate	Connection A	Δ IO/°C	mA/°C	-0.9			
		Connection B			-1.2			
		Connection C			-2.4			
Dielectric strength between input and output				VI-O	Vrms	1,500		
Storage Temperature				Tstg	°C	-55 to + 125		
Operating Temperature				Ta	°C	-40 to + 85		
Electrical Characteristics				Symbol	Unit	Min.	Typ.	Max.
Input	LED Forward voltage		VF	V	1.0	1.15	1.3	
O u t p u t	Maximum resistance with output ON	Connection A	RON	Ω	-	27	50	
		Connection B			-	20	43	
		Connection C			-	10	-	
	Current leakage when the relay is open		ILEAK	μ A	-	-	1.0	
Output Capacitance		COFF	pF	-	30	-		
Capacitance between I/ O terminals				CI-O	pF	-	0.8	-
Insulation resistance between I/ O				RI-O	M Ω	1,000	-	-
Turn- ON time				TON	ms	-	0.25	0.5
Turn- OFF time				TOFF	ms	-	0.5	1.0

(DPST-NC type)

				Product discontinuation G3VM-354C1/F1			Recommended replacement G3VM-354C/F				
Absolute maximum Ratings				Symbol	Unit	Rating			Rating		
I n p u t	LED Forward current		IF	mA	50			50			
	LED reverse voltage		VR	V	5			5			
	Repetitive peak LED forward current		IFP	A	1			1			
O u t p u t	Load voltage (Peak AC/ DC)		VOFF	V	350			350			
	Continuous load current (Peak AC/ DC)	Connection A	IO	mA	100			150			
		Connection B			-			-			
		Connection C			-			-			
	On current reduction Rate	Connection A	Δ IO/°C	mA/°C	-1			-1.5			
		Connection B			-			-			
Connection C		-			-						
Dielectric strength between input and output				VI-O	Vrms	2,500			2,500		
Storage Temperature				Tstg	°C	-55 to +125			-55 to +125		
Operating Temperature				Ta	°C	-40 to +85			-40 to +85		
Electrical Characteristics				Symbol	Unit	Min.	Typ.	Max.	Min.	Typ.	Max.
Input	LED Forward voltage		VF	V	1.0	1.15	1.3	1.0	1.15	1.3	
O u t p u t	Maximum resistance with output ON	Connection A	RON	Ω	-	30	50	-	15	25	
		Connection B			-	-	-	-	-	-	
		Connection C			-	-	-	-	-	-	
	Current leakage when the relay is open		ILEAK	μ A	-	-	1.0	-	-	1.0	
	Output Capacitance		COFF	pF	-	30	-	-	85	-	
Capacitance between I/ O terminals				CI-O	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/ O				RI-O	M Ω	1,000	-	-	1,000	-	-
Turn- ON time				TON	ms	-	0.25	0.5	-	0.1	1.0
Turn- OFF time				TOFF	ms	-	0.5	1.0	-	1.0	3.0

				Product discontinuation G3VM-354J1		Recommended replacement G3VM-354J		
Absolute maximum Ratings				Symbol	Unit	Rating		
I n p u t	LED Forward current			IF	mA	50		
	LED reverse voltage			VR	V	5		
	Repetitive peak LED forward current			IFP	A	1		
O u t p u t	Load voltage (Peak AC/ DC)			VOFF	V	350		
	Continuous load current (Peak AC/ DC)	Connection A		IO	mA	90		
		Connection B				-		
		Connection C				-		
	On current reduction Rate			Δ IO/°C	mA/°C	-0.9		
	Connection A		-					
	Connection B		-					
Dielectric strength between input and output			VI-O	Vrms	1,500			
Storage Temperature				Tstg	°C	-55 to + 125		
Operating Temperature				Ta	°C	-40 to + 85		
Electrical Characteristics				Symbol	Unit	Min.	Typ.	Max.
Input	LED Forward voltage			VF	V	1.0	1.15	1.3
O u t p u t	Maximum resistance with output ON	Connection A		RON	Ω	-	30	50
		Connection B				-	-	-
		Connection C				-	-	-
	Current leakage when the relay is open			ILEAK	μ A	-	-	1.0
Output Capacitance			COFF	pF	-	30	-	
Capacitance between I/ O terminals				CI-O	pF	-	0.8	-
Insulation resistance between I/ O				RI-O	M Ω	1,000	-	-
Turn- ON time				TON	ms	-	0.25	0.5
Turn- OFF time				TOFF	ms	-	0.5	1.0
						-	-	3.0

(SPST-NO / SPST-NC type)

				Product discontinuation G3VM-355C/F			Recommended replacement G3VM-355CR/FR				
Absolute maximum Ratings				Symbol	Unit	Rating			Rating		
I n p u t	LED Forward current			IF	mA	50			50		
	LED reverse voltage			VR	V	5			5		
	Repetitive peak LED forward current			IFP	A	1			1		
O u t p u t	Load voltage (Peak AC/ DC)			VOFF	V	350			350		
	Continuous load current (Peak AC/ DC)	Connection A		IO	mA	100			120		
		Connection B				-			-		
		Connection C				-			-		
	On current reduction Rate			Δ IO/°C	mV/°C	-1			-1.2		
	Connection A		-			-					
	Connection B		-			-					
Connection C		-			-			-			
Dielectric strength between input and output				VI-O	Vrms	2,500			2,500		
Storage Temperature				Tstg	°C	-55 to +125			-55 to +125		
Operating Temperature				Ta	°C	-40 to +85			-40 to +85		
Electrical Characteristics				Symbol	Unit	Min.	Typ.	Max.	Min.	Typ.	Max.
Input	LED Forward voltage			VF	V	1.0	1.15	1.3	1.0	1.15	1.3
O u t p u t	Maximum resistance with output ON	Connection A		RON	Ω	-	40	50	-	15	25
		Connection B				-	-	-	-	-	-
		Connection C				-	-	-	-	-	-
Current leakage when the relay is open				ILEAK	μ A	-	-	1.0	-	-	1.0
Output Capacitance				COFF	pF	-	30	-	-	65	-
Capacitance between I/ O terminals				CI-O	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/ O				RI-O	M Ω	1,000	-	-	1,000	-	-
Turn- ON time				TON	ms	-	1a-0.3 1b-0.25	1	-	-	1
Turn- OFF time				TOFF	ms	-	1a-0.15 1b-0.5	1a-1 1b-1	-	-	1a-1 1b-3

				Product discontinuation G3VM-355J		Recommended replacement G3VM-355JR		
Absolute maximum Ratings				Symbol	Unit	Rating		
Input	LED Forward current			IF	mA	50		
	LED reverse voltage			VR	V	5		
	Repetitive peak LED forward current			IFP	A	1		
Output	Load voltage (Peak AC/ DC)			VOFF	V	350		
	Continuous load current (Peak AC/ DC)	Connection A		IO	mA	90		
		Connection B				-		
		Connection C				-		
	On current reduction Rate	Connection A		Δ IO/°C	mA/°C	-0.9		
		Connection B				-		
		Connection C				-		
Dielectric strength between input and output				VI-O	Vrms	1,500		
Storage Temperature				Tstg	°C	-55 to + 125		
Operating Temperature				Ta	°C	-40 to + 85		
Electrical Characteristics				Symbol	Unit	Min.	Typ.	Max.
Input	LED Forward voltage			VF	V	1.0	1.15	1.3
Output	Maximum resistance with output ON	Connection A		RON	Ω	-	40	50
		Connection B				-	-	-
		Connection C				-	-	-
	Current leakage when the relay is open			ILEAK	μ A	-	-	1.0
Output Capacitance			COFF	pF	-	30	-	
Capacitance between I/ O terminals				CI-O	pF	-	0.8	-
Insulation resistance between I/ O				RI-O	M Ω	1,000	-	-
Turn- ON time				TON	ms	-	1a-0.3 1b-0.25	1
Turn- OFF time				TOFF	ms	-	1a-0.15 1b-0.5	1a-1 1b-1

(Low C x R, SPST-NO type)

				Product discontinuation G3VM-41GR3			Recommended replacement G3VM-41GR6				
Absolute maximum Ratings				Symbol	Unit	Rating			Rating		
I n p u t	LED Forward current			IF	mA	50			50		
	LED reverse voltage			VR	V	5			5		
	Repetitive peak LED forward current			IFP	A	-			-		
O u t p u t	Load voltage (Peak AC/ DC)			VOFF	V	40			40		
	Continuous load current (Peak AC/ DC)	Connection A		IO	mA	80			120		
		Connection B				-			-		
		Connection C				-			-		
	On current reduction Rate			Δ IO/°C	mA/°C	-0.8			-1.2		
	Connection A		-			-					
	Connection B		-			-					
Connection C		-			-			-			
Dielectric strength between input and output				VI-O	Vrms	1,500			1,500		
Storage Temperature				Tstg	°C	-40 to + 125			-55 to + 125		
Operating Temperature				Ta	°C	-20 to + 85			-20 to + 85		
Electrical Characteristics				Symbol	Unit	Min.	Typ.	Max.	Min.	Typ.	Max.
Input	LED Forward voltage			VF	V	1.0	1.15	1.3	1.0	1.15	1.3
O u t p u t	Maximum resistance with output ON	Connection A		RON	Ω	-	25	35	-	10	15
		Connection B				-	-	-	-	-	-
		Connection C				-	-	-	-	-	-
	Current leakage when the relay is open			ILEAK	μ A	-	-	1.0	-	-	1.0
Output Capacitance			COFF	pF	-	0.6	1.4	-	1	2.0	
Capacitance between I/ O terminals				CI-O	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/ O				RI-O	M Ω	1,000	-	-	1,000	-	-
Turn- ON time				TON	ms	-	-	0.5	-	-	0.5
Turn- OFF time				TOFF	ms	-	-	0.5	-	-	0.5

				Product discontinuation G3VM-41GR7			Recommended replacement G3VM-41GR6				
Absolute maximum Ratings				Symbol	Unit	Rating			Rating		
I n p u t	LED Forward current			IF	mA	50			50		
	LED reverse voltage			VR	V	5			5		
	Repetitive peak LED forward current			IFP	A	-			-		
O u t p u t	Load voltage (Peak AC/ DC)			VOFF	V	40			40		
	Continuous load current (Peak AC/ DC)	Connection A		IO	mA	120			120		
		Connection B				-			-		
		Connection C				-			-		
	On current reduction Rate	Connection A		Δ IO/°C	mA/°C	-1.2			-1.2		
		Connection B				-			-		
		Connection C				-			-		
Dielectric strength between input and output				VI-O	Vrms	1,500			1,500		
Storage Temperature				Tstg	°C	-40 to + 125			-55 to + 125		
Operating Temperature				Ta	°C	-20 to + 85			-20 to + 85		
Electrical Characteristics				Symbol	Unit	Min.	Typ.	Max.	Min.	Typ.	Max.
Input	LED Forward voltage			VF	V	1.0	1.15	1.3	1.0	1.15	1.3
O u t p u t	Maximum resistance with output ON	Connection A		RON	Ω	-	6.5	9.5	-	10	15
		Connection B				-	-	-	-	-	-
		Connection C				-	-	-	-	-	-
	Current leakage when the relay is open			ILEAK	μ A	-	-	1.0	-	-	1.0
	Output Capacitance			COFF	pF	-	1.65	3.0	-	1.0	2.0
Capacitance between I/ O terminals				CI-O	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/ O				RI-O	M Ω	1,000	-	-	1,000	-	-
Turn- ON time				TON	ms	-	-	0.5	-	-	0.5
Turn- OFF time				TOFF	ms	-	-	0.5	-	-	0.5

				Product discontinuation G3VM-41LR3			Recommended replacement G3VM-41LR6				
Absolute maximum Ratings				Symbol	Unit	Rating			Rating		
I n p u t	LED Forward current			IF	mA	50			50		
	LED reverse voltage			VR	V	5			5		
	Repetitive peak LED forward current			IFP	A	-			-		
O u t p u t	Load voltage (Peak AC/ DC)			VOFF	V	40			40		
	Continuous load current (DC)	Connection A		IO	mA	80			120		
		Connection B				-			-		
		Connection C				-			-		
	On current reduction Rate	Connection A		Δ IO/°C	mA/°C	-0.8			-1.2		
		Connection B				-			-		
		Connection C				-			-		
Dielectric strength between input and output				VI-O	Vrms	1,500			1,500		
Storage Temperature				Tstg	°C	-40 to + 125			-40 to + 125		
Operating Temperature				Ta	°C	-20 to + 85			-20 to + 85		
Electrical Characteristics				Symbol	Unit	Min.	Typ.	Max.	Min.	Typ.	Max.
Input	LED Forward voltage			VF	V	1.0	1.15	1.3	1.0	1.15	1.3
O u t p u t	Maximum resistance with output ON	Connection A		RON	Ω	-	25	35	-	10	15
		Connection B				-	-	-	-	-	-
		Connection C				-	-	-	-	-	-
	Current leakage when the relay is open			ILEAK	μ A	-	-	1.0	-	-	1.0
	Output Capacitance			COFF	pF	-	0.6	1.4	-	1.0	2.0
Capacitance between I/ O terminals				CI-O	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/ O				RI-O	M Ω	1,000	-	-	1,000	-	-
Turn- ON time				TON	ms	-	0.03	0.5	-	0.05	0.5
Turn- OFF time				TOFF	ms	-	0.12	0.5	-	0.12	0.5