

**Product Discontinuation
Notices**

Jan.27, 2012

MOS FET RELAY

No. YPE-G3VM-0165

Discontinuation Notice of Specific models**Product Discontinuation**

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]

The end of March, 2013

[Caution on recommended replacement]

The body color, dimensions, connection, mounting and operation methods are fully compatible. At replacement relay of SPST-NC type, On current reduction rate become a little bit high and switching time slow slightly. At replacement relay of low C x R type, On current reduction rate and capacity between outputs become a little bit high

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	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

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

[Product Discontinuation and recommended replacement]

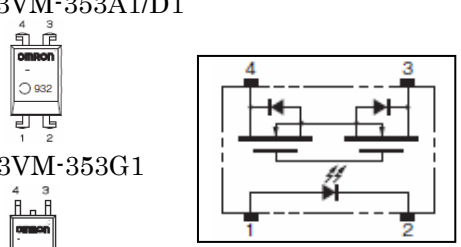
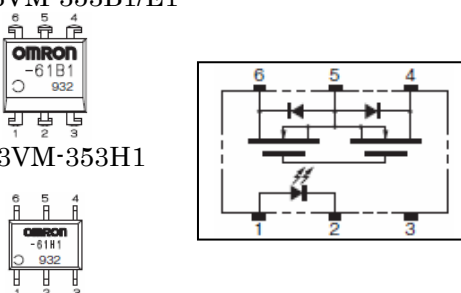
Product discontinuation	Recommended replacement
G3VM-353A1	G3VM-353A
G3VM-353D1	G3VM-353D
G3VM-353D1(TR)	G3VM-353D(TR)
G3VM-353G1	G3VM-353G
G3VM-353G1(TR)	G3VM-353G(TR)
G3VM-353B1	G3VM-353B
G3VM-353E1	G3VM-353E
G3VM-353E1(TR)	G3VM-353E(TR)
G3VM-353H1	G3VM-353H
G3VM-353H1(TR)	G3VM-353H(TR)

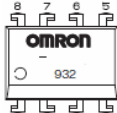
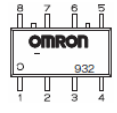
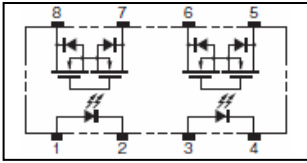
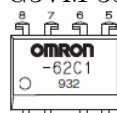
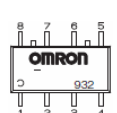
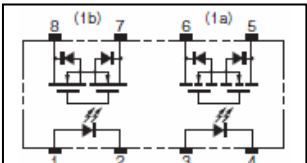


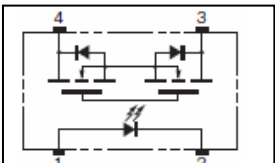
Product discontinuation	Recommended replacement
G3VM-354C1	G3VM-354C
G3VM-354F1	G3VM-354F
G3VM-354F1(TR)	G3VM-354F(TR)
G3VM-354J1	G3VM-354J
G3VM-354J1(TR)	G3VM-354J(TR)
G3VM-355C	G3VM-355CR
G3VM-355F	G3VM-355FR
G3VM-355F(TR)	G3VM-355FR(TR)
G3VM-355J	G3VM-355JR
G3VM-355J(TR)	G3VM-355JR(TR)
G3VM-41GR3	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]

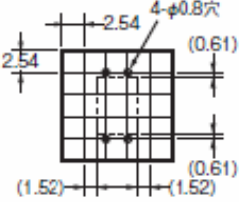
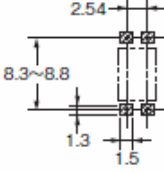
Product discontinuation Discontinuation Notice of Specific models	Recommendable replacement Discontinuation Notice of Specific models
White	White (No change)

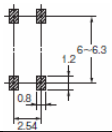
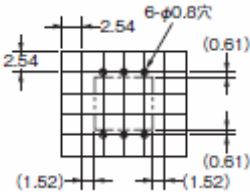
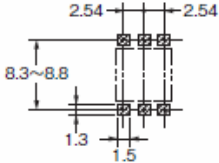
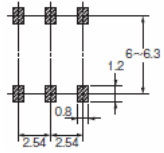
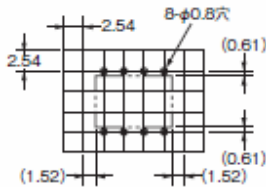
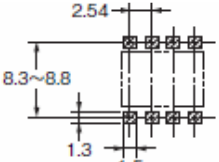
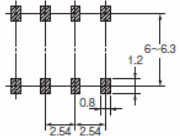
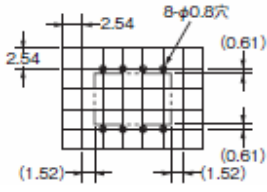
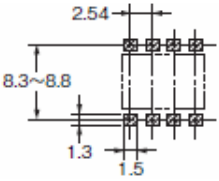
[Wire connection]

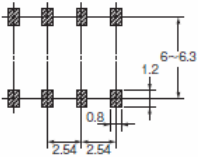
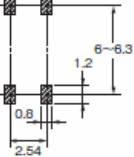
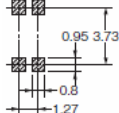
Product discontinuation Discontinuation Notice of Specific models	Recommendable replacement Discontinuation Notice of Specific models
<p>(SPST-NC type) DIP4 G3VM-353A1/D1</p>  <p>SOP4 G3VM-353G1</p>	<p>(SPST-NC type) DIP4 G3VM-353A/D</p> <p>Same with left.</p> <p>SOP4 G3VM-353G</p> <p>Same with left.</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>SOP8 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>(Low C x R, SPST-NO type) SOP4 G3VM-41GR3 , -41GR7</p>  <p>SSOP4 G3VM-41LR3</p>  	<p>(Low C x R, SPST-NO type) SOP4 G3VM-41GR6</p> <p>Same with left</p> <p>SSOP4 G3VM-41LR6</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>

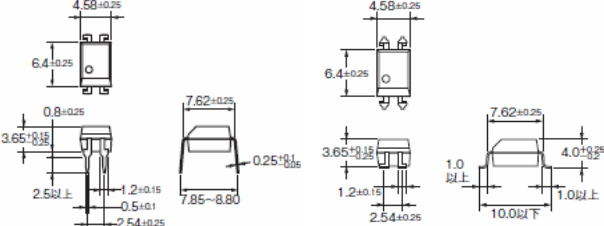
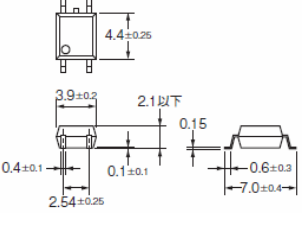
[Mounting dimensions]

<p>Product discontinuation Discontinuation Notice of Specific models</p>	<p>Recommendable replacement Discontinuation Notice of Specific models</p>
<p>(SPST-NC type) DIP4 G3VM-353A1</p> <p>Bottom View</p>  <p>G3VM-353D1</p> <p>Top View</p> 	<p>(SPST-NC type) DIP4 G3VM-353A</p> <p>G3VM-353D</p> <p>Same with left</p> <p>Same with left</p>

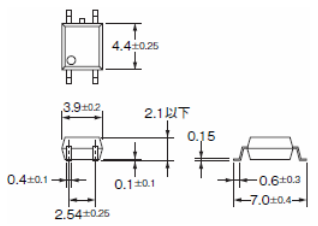
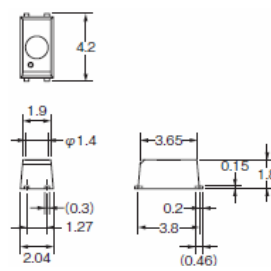
<p>(SPST-NC type) SOP4 G3VM-353G1 Top View</p> 	<p>(SPST-NC type) SOP4 G3VM-353G Same with left</p>		
<p>(SPST-NC type) DIP6 G3VM-353B1 Bottom View</p> 	<p>G3VM-353E1 Top View</p> 	<p>(SPST-NC type) SOP6 G3VM-353H1 Top View</p> 	<p>(SPST-NC type) SOP6 G3VM-353B Bottom View</p> <p>G3VM-353E Top View</p> <p>Same with left</p>
<p>(DPST-NC type) DIP8 G3VM-354C1 Bottom View</p> 	<p>G3VM-354F1 Top View</p> 	<p>(DPST-NC type) SOP8 G3VM-354J1 Top View</p> 	<p>(DPST-NC type) SOP8 G3VM-354C Bottom View</p> <p>G3VM-354F 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>

[Dimensions]

<p>Product discontinuation Discontinuation Notice of Specific models</p>	<p>Recommendable 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</p> <p>G3VM-353E1</p>	<p>(SPST-NC type) DIP6 G3VM-353B</p> <p>G3VM-353E</p> <p>Same with left</p> <p>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>Same with left</p>
<p>(SPST-NO / SPST-NC type) DIP8 G3VM-355C</p> <p>G3VM-355F</p>	<p>(SPST-NO / SPST-NC type) DIP8 G3VM-355CR</p> <p>G3VM-355FR</p> <p>Same with left</p> <p>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>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>Same with left</p>
<p>(Low C x R, SPST-NO type) SSOP4 G3VM-41LR3</p> 	<p>(Low C x R, SPST-NO type) SSOP4 G3VM-41LR6</p> <p>Same with left</p>

[Characteristics/ Operation ratings]

(SPST-NC type)

				Product discontinuation G3VM-353A1/D1	Recommendable replacement G3VM-353A/D					
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	$\Delta IO/^\circ C$	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	μA	—	—	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	Recommendable replacement G3VM-353G
Absolute maximum Ratings				Symbol	Unit
I n p u t	LED Forward current		IF	mA	Rating
	LED reverse voltage		VR	V	Rating
	Repetitive peak LED forward current		IFP	A	Rating
O u t p u t	Load voltage (Peak AC/DC)		VOFF	V	Rating
	Continuous load current (Peak AC/DC)	Connection A	IO	mA	Rating
		Connection B			Rating
		Connection C			Rating
	On current reduction Rate	Connection A	$\Delta IO/^\circ C$	mA/°C	Rating
		Connection B			Rating
Connection C		Rating			
Dielectric strength between input and output			VI-O	Vrms	Rating
Storage Temperature			Tstg	°C	Rating
Operating Temperature			Ta	°C	Rating
Electrical Characteristics				Symbol	Unit
Input	LED Forward voltage		VF	V	Min. Typ. Max.
O u t p u t	Maximum resistance with output ON	Connection A	RON	Ω	Min. Typ. Max.
		Connection B			Min. Typ. Max.
		Connection C			Min. Typ. Max.
	Current leakage when the relay is open		ILEAK	μA	Min. Typ. Max.
Output Capacitance		COFF	pF	Min. Typ. Max.	
Capacitance between I/O terminals			CI-O	pF	Min. Typ. Max.
Insulation resistance between I/O			RI-O	M Ω	Min. Typ. Max.
Turn-ON time			TON	ms	Min. Typ. Max.
Turn-OFF time			TOFF	ms	Min. Typ. Max.

				Product discontinuation G3VM-353B1/E1			Recommendable 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		
	Continuous load current (DC)		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			Recommendable replacement G3VM-353H				
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	90			120		
		Connection B				90			120		
		Connection C				180			240		
	On current reduction Rate	Connection A		$\Delta IO/^\circ C$	mA/°C	-0.9			-1.2		
		Connection B				-0.9			-1.2		
Connection C		-1.8				-2.4					
Dielectric strength between input and output				VI-O	Vrms	1,500			1,500		
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	—
	Current leakage when the relay is open			ILEAK	μA	—	—	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	MΩ	1,000	—	—	1,000	—	—
Turn-ON time				TON	ms	—	0.25	0.5	—	—	1.0
Turn-OFF time				TOFF	ms	—	0.5	1.0	—	—	3.0

(DPST-NC type)

				Product discontinuation G3VM-354C1/F1			Recommendable 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		
		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	
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	μA	—	—	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	MΩ	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			Recommendable replacement G3VM-354J				
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	90			120		
	Continuous load current (DC)		Connection B			—			—		
			Connection C			—			—		
	On current reduction Rate		Connection A	$\Delta IO/^\circ C$	mA/°C	-0.9			-1.2		
			Connection B			—			—		
			Connection C			—			—		
Dielectric strength between input and output				VI-O	Vrms	1,500			1,500		
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	μA	—	—	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	—	0.25	0.5	—	—	1.0
Turn-OFF time				TOFF	ms	—	0.5	1.0	—	—	3.0

(SPST-NO / SPST-NC type)

					Product discontinuation G3VM-355C/F			Recommendable 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				
	Continuous load current (DC)		Connection B				—			—				
			Connection C				—			—				
	On current reduction Rate		Connection A		Δ IO/°C	mA/°C	-1			-1.2				
			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	μA	—	—	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	MΩ	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			Recommendable replacement G3VM-355JR				
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	90			120		
		Connection B				—			—		
		Connection C				—			—		
	On current reduction Rate	Connection A		Δ IO/°C	mA/°C	-0.9			-1.2		
		Connection B				—			—		
Connection C		—				—					
Dielectric strength between input and output				VI-O	Vrms	1,500			1,500		
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.
I n p u t	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

(Low C x R, SPST-NO type)

					Product discontinuation G3VM-41GR3	Recommendable 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	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	-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			Recommendable 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			
	Continuous load current (DC)		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	Recommendable replacement G3VM-41LR6		
Absolute maximum Ratings				Rating	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	—		
O u t p u t	Load voltage (Peak AC/DC)		VOFF	V	40		
	Continuous load current (Peak AC/DC)	Connection A	IO	mA	80		
		Connection B			—		
		Connection C			—		
	On current reduction Rate	Connection A	Δ IO/°C	mA/°C	-0.8		
		Connection B			—		
Connection C		—					
Dielectric strength between input and output			VI-O	Vrms	1,500		
Storage Temperature			Tstg	°C	-40 to +125		
Operating Temperature			Ta	°C	-20 to +85		
Electrical Characteristics				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	—	25	35
		Connection B			—	—	—
		Connection C			—	—	—
	Current leakage when the relay is open		ILEAK	μ A	—	—	1.0
Output Capacitance		COFF	pF	—	0.6	1.4	
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	—	0.03	0.5
Turn-OFF time			TOFF	ms	—	0.12	0.5