

**Product Discontinuation**

MOS FET Relay

**Model G3VM-61A1  
Model G3VM-61D1  
Model G3VM-61D1(TR)****Recommended Replacement**

MOS FET Relay

**Model G3VM-61AY1  
Model G3VM-61DY1  
Model G3VM-61DY1(TR05)****Model G3VM-61B  
Model G3VM-61E  
Model G3VM-61E(TR)****Model G3VM-61AY1  
Model G3VM-61DY1  
Model G3VM-61DY1(TR05)****Model G3VM-61B1  
Model G3VM-61E1  
Model G3VM-61E1(TR)****Model G3VM-61AY1  
Model G3VM-61DY1  
Model G3VM-61DY1(TR05)****Model G3VM-62C1  
Model G3VM-62F1  
Model G3VM-62F1(TR)****Model G3VM-61AY1  
Model G3VM-61DY1  
Model G3VM-61DY1(TR05)  
Use 2 pcs. each****Model G3VM-351A  
Model G3VM-351D  
Model G3VM-351D(TR)****Model G3VM-351AY1  
Model G3VM-351DY1  
Model G3VM-351DY1(TR05)****Model G3VM-351B  
Model G3VM-351E  
Model G3VM-351E(TR)****Model G3VM-351AY1  
Model G3VM-351DY1  
Model G3VM-351DY1(TR05)****Model G3VM-352C  
Model G3VM-352F  
Model G3VM-352F(TR)****Model G3VM-351AY1  
Model G3VM-351DY1  
Model G3VM-351DY1(TR05)  
Use 2 pcs. each****Model G3VM-401A  
Model G3VM-401D  
Model G3VM-401D(TR)****Model G3VM-401AY1  
Model G3VM-401DY1  
Model G3VM-401DY1(TR05)**

**Product Discontinuation**

MOS FET Relay

**Model G3VM-401B**  
**Model G3VM-401E**  
**Model G3VM-401E(TR)**

**Recommended Replacement**

MOS FET Relay

**Model G3VM-401AY1**  
**Model G3VM-401DY1**  
**Model G3VM-401DY1(TR05)**



**Model G3VM-402C**  
**Model G3VM-402F**  
**Model G3VM-402F(TR)**

**Model G3VM-401AY1**  
**Model G3VM-401DY1**  
**Model G3VM-401DY1(TR05)**  
**Use 2 pcs. each**

**[ Final order entry date ]**

End of December, 2023

**[ Date of The Last Shipping ]**

End of March, 2024

**[ Caution on recommended replacement ]**

Some products differ in body color, dimensions, wire connection and mounting dimensions, but characteristics, operation ratings and operation methods are almost compatible.

Since the G3VM-□C□/F□/F□(TR) product is the 2a type, please use two recommended replacement 1a type products.

**[ Difference from discontinued product ]**

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
Recommendation against Model G3VM-61A1/D1/D1(TR): Model G3VM-61AY1 Model G3VM-61DY1 Model G3VM-61DY1(TR05)	--	**	**	**	*	*	**
Recommendation against Model G3VM-61B/E/E(TR): Model G3VM-61AY1 Model G3VM-61DY1 Model G3VM-61DY1(TR05)	--	--	--	--	*	*	**
Recommendation against Model G3VM-61B1/E1/E1(TR): Model G3VM-61AY1 Model G3VM-61DY1 Model G3VM-61DY1(TR05)	--	--	--	--	*	*	**
Recommendation against Model G3VM-62C1/F1/F1(TR): Model G3VM-61AY1 Model G3VM-61DY1 Model G3VM-61DY1(TR05)	--	--	--	--	*	*	**
Recommendation against Model G3VM-351A/D/D(TR): Model G3VM-351AY1 Model G3VM-351DY1 Model G3VM-351DY1(TR05)	--	**	**	**	*	*	**

**[ Difference from discontinued product ]**

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
Recommendation against Model G3VM-351B/E/E(TR): Model G3VM-351AY1 Model G3VM-351DY1 Model G3VM-351DY1(TR05)	--	--	--	--	*	*	**
Recommendation against Model G3VM-352C/F/F(TR): Model G3VM-351AY1 Model G3VM-351DY1 Model G3VM-351DY1(TR05)	--	--	--	--	*	*	**
Recommendation against Model G3VM-401A/D/D(TR): Model G3VM-401AY1 Model G3VM-401DY1 Model G3VM-401DY1(TR05)	--	**	**	**	*	*	**
Recommendation against Model G3VM-401B/E/E(TR): Model G3VM-401AY1 Model G3VM-401DY1 Model G3VM-401DY1(TR05)	--	--	--	--	*	*	**
Recommendation against Model G3VM-402C/F/F(TR): Model G3VM-401AY1 Model G3VM-401DY1 Model G3VM-401DY1(TR05)	--	--	--	--	*	*	**

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

**[ Product Discontinuation and recommended replacement ]**

Product discontinuation	Recommended replacement
Model G3VM-61A1	Model G3VM-61AY1
Model G3VM-61D1	Model G3VM-61DY1
Model G3VM-61D1(TR)	Model G3VM-61DY1(TR05)
Model G3VM-61B	Model G3VM-61AY1
Model G3VM-61E	Model G3VM-61DY1
Model G3VM-61E(TR)	Model G3VM-61DY1(TR05)
Model G3VM-61B1	Model G3VM-61AY1
Model G3VM-61E1	Model G3VM-61DY1
Model G3VM-61E1(TR)	Model G3VM-61DY1(TR05)
Model G3VM-62C1	Model G3VM-61AY1      Use 2 pcs.
Model G3VM-62F1	Model G3VM-61DY1      Use 2 pcs.
Model G3VM-62F1(TR)	Model G3VM-61DY1(TR05)      Use 2 pcs.

[ Product Discontinuation and recommended replacement ]

Product discontinuation	Recommended replacement
Model G3VM-351A	Model G3VM-351AY1
Model G3VM-351D	Model G3VM-351DY1
Model G3VM-351D(TR)	Model G3VM-351DY1(TR05)
Model G3VM-351B	Model G3VM-351AY1
Model G3VM-351E	Model G3VM-351DY1
Model G3VM-351E(TR)	Model G3VM-351DY1(TR05)
Model G3VM-352C	Model G3VM-351AY1 Use 2 pcs.
Model G3VM-352F	Model G3VM-351DY1 Use 2 pcs.
Model G3VM-352F(TR)	Model G3VM-351DY1(TR05) Use 2 pcs.
Model G3VM-401A	Model G3VM-401AY1
Model G3VM-401D	Model G3VM-401DY1
Model G3VM-401D(TR)	Model G3VM-401DY1(TR05)
Model G3VM-401B	Model G3VM-401AY1
Model G3VM-401E	Model G3VM-401DY1
Model G3VM-401E(TR)	Model G3VM-401DY1(TR05)
Model G3VM-402C	Model G3VM-401AY1 Use 2 pcs.
Model G3VM-402F	Model G3VM-401DY1 Use 2 pcs.
Model G3VM-402F(TR)	Model G3VM-401DY1(TR05) Use 2 pcs.

[ Body color ]

Product discontinuation	Recommendable replacement
<b>Model G3VM-61A1, -61D1, -61D1(TR)</b> <b>Model G3VM-61B, -61E, -61E(TR)</b> <b>Model G3VM-61B1, -61E1, -61E1(TR)</b> <b>Model G3VM-62C1, -62F1, -62F1(TR)</b> <b>Model G3VM-351A, -351D, -351D(TR)</b> <b>Model G3VM-351B, -351E, -351E(TR)</b> <b>Model G3VM-352C, -352F, -352F(TR)</b> <b>Model G3VM-401A, -401D, -401D(TR)</b> <b>Model G3VM-401B, -401E, -401E(TR)</b> <b>Model G3VM-402C, -402F, -402F(TR)</b>	<b>Model G3VM-61AY1, -61DY1, -61DY1(TR05)</b> <b>Model G3VM-351AY1, -351DY1, -351DY1(TR05)</b> <b>Model G3VM-401AY1, -401DY1, -401DY1(TR05)</b>
White	Black

[ Dimensions ]

Product discontinuation		Recommendable replacement	
<b>Model G3VM-61A1, -61D1, -61D1(TR)</b> <b>Model G3VM-351A, -351D, -351D(TR)</b> <b>Model G3VM-401A, -401D, -401D(TR)</b>		<b>Model G3VM-61AY1, -61DY1, -61DY1(TR05)</b> <b>Model G3VM-351AY1, -351DY1, -351DY1(TR05)</b> <b>Model G3VM-401AY1, -401DY1, -401DY1(TR05)</b>	
<b>Model G3VM-61A1, -351A, -401A</b> 	<b>Model G3VM-61D, -61D1(TR), -351D, -351D(TR), -401D, -401D(TR)</b> 	Same as Left	Same as Left

[ Dimensions ]

<p><b>Product discontinuation</b>                  Model G3VM-61B, -61E, -61E(TR)                  Model G3VM-61B1, -61E1, -61E1(TR)                  Model G3VM-351B, -351E, -351E(TR)                  Model G3VM-401B, -401E, -401E(TR)</p>		<p><b>Recommendable replacement</b>                  Model G3VM-61AY1, -61DY1, -61DY1(TR05)                  Model G3VM-351AY1, -351DY1, -351DY1(TR05)                  Model G3VM-401AY1, -401DY1, -401DY1(TR05)</p>	
<p><b>Model</b>                  G3VM-61B, -61B1,                  -351B, -401B</p>	<p><b>Model</b>                  G3VM-61E, -61E(TR),                  -61E1, -61E1(TR),                  -351E, -351E(TR),                  -401E, -401E(TR)</p>	<p><b>Model</b>                  G3VM-61AY1,                  -351AY1, -401AY1</p>	<p><b>Model</b>                  G3VM-61DY1,                  -61DY1(TR05),                  -351DY1, -351DY1(TR05),                  -401DY1, -401DY1(TR05)</p>

<p><b>Product discontinuation</b>                  Model G3VM-62C1, -62F1, -62F1(TR)                  Model G3VM-352C, -352F, -352F(TR)                  Model G3VM-402C, -402F, -402F(TR)</p>		<p><b>Recommendable replacement</b>                  Model G3VM-61AY1, -61DY1, -61DY1(TR05)                  Model G3VM-351AY1, -351DY1, -351DY1(TR05)                  Model G3VM-401AY1, -401DY1, -401DY1(TR05)                  Use 2 pcs. each</p>	
<p><b>Model</b>                  G3VM-62C1,                  -352C, -402C</p>	<p><b>Model</b>                  G3VM-62F1,                  -62F1(TR),                  -352F, -352F(TR),                  -402F, -402F(TR)</p>	<p><b>Model</b>                  G3VM-61AY1,                  -351AY1, -401AY1</p>	<p><b>Model</b>                  G3VM-61DY1,                  -61DY1(TR05),                  -351DY1, -351DY1(TR05),                  -401DY1, -401DY1(TR05)</p>

[ Wire connection ]

<p><b>Product discontinuation</b>                  Model G3VM-61A1, -61D1, -61D1(TR)                  Model G3VM-351A, -351D, -351D(TR)                  Model G3VM-401A, -401D, -401D(TR)</p>	<p><b>Recommendable replacement</b>                  Model G3VM-61AY1, -61DY1, -61DY1(TR05)                  Model G3VM-351AY1, -351DY1, -351DY1(TR05)                  Model G3VM-401AY1, -401DY1, -401DY1(TR05)</p>
<p>(TOP VIEW)</p>	<p>Same as Left</p>

[ Wire connection ]

<p><b>Product discontinuation</b>          Model G3VM-61B, -61E, -61E(TR)          Model G3VM-61B1, -61E1, -61E1(TR)          Model G3VM-351B, -351E, -351E(TR)          Model G3VM-401B, -401E, -401E(TR)</p>	<p><b>Recommendable replacement</b>          Model G3VM-61AY1, -61DY1, -61DY1(TR05)          Model G3VM-351AY1, -351DY1, -351DY1(TR05)          Model G3VM-401AY1, -401DY1, -401DY1(TR05)</p>
<p>(TOP VIEW)</p>	<p>(TOP VIEW)</p>

<p><b>Product discontinuation</b>          Model G3VM-62C1, -62F1, -62F1(TR)          Model G3VM-352C, -352F, -352F(TR)          Model G3VM-402C, -402F, -402F(TR)</p>	<p><b>Recommendable replacement</b>          Model G3VM-61AY1, -61DY1, -61DY1(TR05)          Model G3VM-351AY1, -351DY1, -351DY1(TR05)          Model G3VM-401AY1, -401DY1, -401DY1(TR05)          Use 2 pcs. each</p>
<p>(TOP VIEW)</p>	<p>(TOP VIEW)</p>

[ Mounting dimensions ]

<p><b>Product discontinuation</b>          Model G3VM-61A1, -61D1, -61D1(TR)          Model G3VM-351A, -351D, -351D(TR)          Model G3VM-401A, -401D, -401D(TR)</p>		<p><b>Recommendable replacement</b>          Model G3VM-61AY1, -61DY1, -61DY1(TR05)          Model G3VM-351AY1, -351DY1, -351DY1(TR05)          Model G3VM-401AY1, -401DY1, -401DY1(TR05)</p>	
<p><b>Model</b>          G3VM-61A1,          -351A, -401A</p> <p>Bottom View</p>	<p><b>Model</b>          G3VM-61D1,          -61D1(TR),          -351D, -351D(TR),          -401D, -401D(TR)</p> <p>Top View</p>	<p><b>Model</b>          G3VM-61AY1,          -351AY1, -401AY1</p> <p>Bottom View</p> <p>Same as left</p>	<p><b>Model</b>          G3VM-61DY1,          -61DY1(TR05),          -351DY1, -351DY1(TR05),          -401DY1, -401DY1(TR05)</p> <p>Top View</p> <p>Same as left</p>

[ Mounting dimensions ]

<b>Product discontinuation</b> Model G3VM-61B, -61E, -61E(TR) Model G3VM-61B1, -61E1, -61E1(TR) Model G3VM-351B, -351E, -351E(TR) Model G3VM-401B, -401E, -401E(TR)		<b>Recommendable replacement</b> Model G3VM-61AY1, -61DY1, -61DY1(TR05) Model G3VM-351AY1, -351DY1, -351DY1(TR05) Model G3VM-401AY1, -401DY1, -401DY1(TR05)	
<b>Model</b> G3VM-61B, -61B1, -351B, -401B	<b>Model</b> G3VM-61E, -61E(TR), -61E1, -61E1(TR), -351E, -351E(TR), -401E, -401E(TR)	<b>Model</b> G3VM-61AY1, -351AY1, -401AY1	<b>Model</b> G3VM-61DY1, -61DY1(TR05), -351DY1, -351DY1(TR05), -401DY1, -401DY1(TR05)
Bottom View 	Top View 	Bottom View 	Top View 

<b>Product discontinuation</b> Model G3VM-62C1, -62F1, -62F1(TR) Model G3VM-352C, -352F, -352F(TR) Model G3VM-402C, -402F, -402F(TR)		<b>Recommendable replacement</b> Model G3VM-61AY1, -61DY1, -61DY1(TR05) Model G3VM-351AY1, -351DY1, -351DY1(TR05) Model G3VM-401AY1, -401DY1, -401DY1(TR05) Use 2 pcs. each	
<b>Model</b> G3VM-62C1, -352C, -402C	<b>Model</b> G3VM-62F1, -62F1(TR), -352F, -352F(TR), -402F, -402F(TR)	<b>Model</b> G3VM-61AY1, -351AY1, -401AY1	<b>Model</b> G3VM-61DY1, -61DY1(TR05), -351DY1, -351DY1(TR05), -401DY1, -401DY1(TR05)
Bottom View 	Top View 	Bottom View 	Top View 

[ Characteristics / Operation ratings ]

Item				Product Discontinuation			Recommended Replacement			
				G3VM-61A1	G3VM-61D1 G3VM-61D1(TR)		G3VM-61AY1	G3VM-61DY1 G3VM-61DY1(TR05)		
Type										
Package				DIP4			DIP4			
Contact form				1a(SPST-NO)			1a(SPST-NO)			
Terminal structure				PCB Terminals		Surface-mounting Terminals	PCB Terminals		Surface-mounting Terminals	
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		$I_F$	mA	50			30		
	Repetitive peak LED forward current		$I_{FP}$	A	1			1		
	LED reverse voltage		$V_R$	V	5			5		
Output	Load Voltage(AC/DC)		$V_{OFF}$	V	60			60		
	Continuous load current		$I_O$	mA	500			500		
Dielectric strength between input and output			$V_{iO}$	Vrms	2,500			5,000		
Operating Temperature			$T_a$	°C	-40	~	+ 85	-40	~ + 85	
Storage Temperature			$T_{sig}$	°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	1.1	1.27	1.4
	Trigger LED Forward Current		$I_{FT}$	mA	-	1.6	3	0.6	-	3
	Release LED Forward Current		$I_{FC}$	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON		$R_{ON}$	$\Omega$	-	1	2	-	0.6	2
	Current leakage when the relay is open		$I_{LEAK}$	$\mu$ A	-	-	1	-	-	1
	Capacitance between terminals		$C_{OFF}$	pF	-	130	-	-	130	-
Capacitance between I/O terminals			$C_{iO}$	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/O terminals			$R_{iO}$	M $\Omega$	1000	1.00E+08	-	1000	1.00E+08	-
Turn-ON time			$t_{ON}$	ms	-	0.8	2	-	1	3
Turn-OFF time			$t_{OFF}$	ms	-	0.1	0.5	-	0.2	1



[ Characteristics / Operation ratings ]

Item				Product Discontinuation			Recommended Replacement			
				G3VM-61B	G3VM-61E G3VM-61E(TR)		G3VM-61AY1	G3VM-61DY1 G3VM-61DY1(TR05)		
Type										
Package				DIP6			DIP4			
Contact form				1a(SPST-NO)			1a(SPST-NO)			
Terminal structure				PCB Terminals		Surface-mounting Terminals	PCB Terminals		Surface-mounting Terminals	
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		$I_F$	mA	50			30		
	Repetitive peak LED forward current		$I_{FP}$	A	1			1		
	LED reverse voltage		$V_R$	V	5			5		
Output	Load Voltage(AC/DC)		$V_{OFF}$	V	60			60		
	Continuous load current	Connection A	$I_O$	mA	500			500		
		Connection B			500			-		
		Connection C			1,000			-		
Dielectric strength between input and output		$V_{IO}$	Vrms	2,500			5,000			
Operating Temperature		$T_a$	°C	-40	~	+ 85	-40	~	+ 85	
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	1.1	1.27	1.4
	Trigger LED Forward Current		$I_{FT}$	mA	-	-	3	0.6	-	3
	Release LED Forward Current		$I_{FC}$	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON	Connection A	$R_{ON}$	$\Omega$	-	1	2	-	0.6	2
		Connection B			-	0.5	1	-	-	-
		Connection C			-	0.25	-	-	-	-
	Current leakage when the relay is open		$I_{LEAK}$	$\mu A$	-	-	1	-	-	1
Capacitance between terminals		$C_{OFF}$	pF	-	130	-	-	130	-	
Capacitance between I/O terminals		$C_{IO}$	pF	-	0.8	-	-	0.8	-	
Insulation resistance between I/O terminals		$R_{IO}$	M $\Omega$	1000	1.00E+08	-	1000	1.00E+08	-	
Turn-ON time		$t_{ON}$	ms	-	0.6	2	-	1	3	
Turn-OFF time		$t_{OFF}$	ms	-	0.1	1	-	0.2	1	

[ Characteristics / Operation ratings ]

Item				Product Discontinuation			Recommended Replacement			
				G3VM-61B1	G3VM-61E1 G3VM-61E1(TR)		G3VM-61AY1	G3VM-61DY1 G3VM-61DY1(TR05)		
Type										
Package				DIP6			DIP4			
Contact form				1a(SPST-NO)			1a(SPST-NO)			
Terminal structure				PCB Terminals		Surface-mounting Terminals	PCB Terminals		Surface-mounting Terminals	
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		$I_F$	mA	50			30		
	Repetitive peak LED forward current		$I_{FP}$	A	1			1		
	LED reverse voltage		$V_R$	V	5			5		
Output	Load Voltage(AC/DC)		$V_{OFF}$	V	60			60		
	Continuous load current	Connection A	$I_O$	mA	500			500		
		Connection B			500			-		
		Connection C			1,000			-		
Dielectric strength between input and output			$V_{IO}$	Vrms	2,500			5,000		
Operating Temperature			$T_a$	°C	-40	~	+ 85	-40	~	+ 85
Storage Temperature			$T_{sig}$	°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	1.1	1.27	1.4
	Trigger LED Forward Current		$I_{FT}$	mA	-	1.6	3	0.6	-	3
	Release LED Forward Current		$I_{FC}$	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON	Connection A	$R_{ON}$	$\Omega$	-	1	2	-	0.6	2
		Connection B			-	0.5	1	-	-	-
		Connection C			-	0.25	-	-	-	-
	Current leakage when the relay is open		$I_{LEAK}$	$\mu$ A	-	-	1	-	-	1
Capacitance between terminals		$C_{OFF}$	pF	-	130	-	-	130	-	
Capacitance between I/O terminals			$C_{IO}$	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/O terminals			$R_{IO}$	M $\Omega$	1000	1.00E+08	-	1000	1.00E+08	-
Turn-ON time			$t_{ON}$	ms	-	0.8	2	-	1	3
Turn-OFF time			$t_{OFF}$	ms	-	0.1	0.5	-	0.2	1

[ Characteristics / Operation ratings ]

Item			Product Discontinuation			Recommended Replacement				
			G3VM-62C1	G3VM-62F1 G3VM-62F1(TR)		G3VM-61AY1	G3VM-61DY1 G3VM-61DY1(TR05)			
Use 2 pcs. each										
Type										
Package			DIP8			DIP4				
Contact form			2a(DPST-NO)			1a(SPST-NO)				
Terminal structure			PCB Terminals	Surface-mounting Terminals		PCB Terminals	Surface-mounting Terminals			
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		$I_F$	mA	50			30		
	Repetitive peak LED forward current		$I_{FP}$	A	1			1		
	LED reverse voltage		$V_R$	V	5			5		
Output	Load Voltage(AC/DC)		$V_{OFF}$	V	60			60		
	Continuous load current		$I_O$	mA	500			500		
Dielectric strength between input and output			$V_{I-O}$	Vrms	2,500			5,000		
Operating Temperature			$T_a$	°C	-40	~	+ 85	-40	~ + 85	
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	1.1	1.27	1.4
	Trigger LED Forward Current		$I_{FT}$	mA	-	1.6	3	0.6	-	3
	Release LED Forward Current		$I_{FC}$	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON		$R_{ON}$	$\Omega$	-	1	2	-	0.6	2
	Current leakage when the relay is open		$I_{LEAK}$	$\mu$ A	-	-	1	-	-	1
	Capacitance between terminals		$C_{OFF}$	pF	-	130	-	-	130	-
Capacitance between I/O terminals			$C_{I-O}$	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/O terminals			$R_{I-O}$	M $\Omega$	1000	1.00E+08	-	1000	1.00E+08	-
Turn-ON time			$t_{ON}$	ms	-	0.8	2	-	1	3
Turn-OFF time			$t_{OFF}$	ms	-	0.1	0.5	-	0.2	1

[ Characteristics / Operation ratings ]

Item			Product Discontinuation			Recommended Replacement				
			G3VM-351A	G3VM-351D G3VM-351D(TR)		G3VM-351AY1	G3VM-351DY1 G3VM-351DY1(TR05)			
Type										
Package			DIP4			DIP4				
Contact form			1a(SPST-NO)			1a(SPST-NO)				
Terminal structure			PCB Terminals	Surface-mounting Terminals		PCB Terminals	Surface-mounting Terminals			
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		$I_F$	mA	50			30		
	Repetitive peak LED forward current		$I_{FP}$	A	1			1		
	LED reverse voltage		$V_R$	V	5			5		
Output	Load Voltage(AC/DC)		$V_{OFF}$	V	350			350		
	Continuous load current		$I_O$	mA	120			100		
Dielectric strength between input and output			$V_{IO}$	Vrms	2,500			5,000		
Operating Temperature			$T_a$	°C	-40	~	+ 85	-40	~ + 85	
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	1.1	1.27	1.4
	Trigger LED Forward Current		$I_{FT}$	mA	-	1	3	0.6	-	3
	Release LED Forward Current		$I_{FC}$	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON		$R_{ON}$	Ω	-	35	50	-	35	50
	Current leakage when the relay is open		$I_{LEAK}$	uA	-	-	1	-	-	1
	Capacitance between terminals		$C_{OFF}$	pF	-	30	-	-	30	-
Capacitance between I/O terminals			$C_{IO}$	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/O terminals			$R_{IO}$	MΩ	1000	1.00E+08	-	1000	1.00E+08	-
Turn-ON time			$t_{ON}$	ms	-	0.3	1	-	0.3	2
Turn-OFF time			$t_{OFF}$	ms	-	0.1	1	-	0.1	1

[ Characteristics / Operation ratings ]

Item				Product Discontinuation			Recommended Replacement			
				G3VM-351B	G3VM-351E G3VM-351E(TR)		G3VM-351AY1	G3VM-351DY1 G3VM-351DY1(TR05)		
Type										
Package				DIP6			DIP4			
Contact form				1a(SPST-NO)			1a(SPST-NO)			
Terminal structure				PCB Terminals		Surface-mounting Terminals	PCB Terminals		Surface-mounting Terminals	
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		$I_F$	mA	50			30		
	Repetitive peak LED forward current		$I_{FP}$	A	1			1		
	LED reverse voltage		$V_R$	V	5			5		
Output	Load Voltage(AC/DC)		$V_{OFF}$	V	350			350		
	Continuous load current	Connection A	$I_O$	mA	120			100		
		Connection B			120			-		
		Connection C			240			-		
Dielectric strength between input and output			$V_{IO}$	Vrms	2,500			5,000		
Operating Temperature			$T_a$	°C	-40	~	+ 85	-40	~	+ 85
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	1.1	1.27	1.4
	Trigger LED Forward Current		$I_{FT}$	mA	-	1	3	0.6	-	3
	Release LED Forward Current		$I_{FC}$	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON	Connection A	$R_{ON}$	$\Omega$	-	35	50	-	35	50
		Connection B			-	28	40	-	-	-
		Connection C			-	14	20	-	-	-
	Current leakage when the relay is open		$I_{LEAK}$	$\mu A$	-	-	1	-	-	1
Capacitance between terminals		$C_{OFF}$	pF	-	30	-	-	30	-	
Capacitance between I/O terminals			$C_{IO}$	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/O terminals			$R_{IO}$	M $\Omega$	1000	1.00E+08	-	1000	1.00E+08	-
Turn-ON time			$t_{ON}$	ms	-	0.3	1	-	0.3	2
Turn-OFF time			$t_{OFF}$	ms	-	0.1	1	-	0.1	1

[ Characteristics / Operation ratings ]

Item	Product Discontinuation			Recommended Replacement					
	G3VM-352C	G3VM-352F G3VM-352F(TR)		G3VM-351AY1	G3VM-351DY1 G3VM-351DY1(TR05)				
Use 2 pcs. each									
Type									
Package		DIP8			DIP4				
Contact form		2a(DPST-NO)			1a(SPST-NO)				
Terminal structure		PCB Terminals	Surface-mounting Terminals		PCB Terminals	Surface-mounting Terminals			
Absolute maximum Rating		Symbol	Unit	Rating		Rating			
Input	LED forward current	$I_F$	mA	50		30			
	Repetitive peak LED forward current	$I_{FP}$	A	1		1			
	LED reverse voltage	$V_R$	V	5		5			
Output	Load Voltage(AC/DC)	$V_{OFF}$	V	350		350			
	Continuous load current	$I_O$	mA	120		100			
Dielectric strength between input and output		$V_{IO}$	Vrms	2,500		5,000			
Operating Temperature		$T_a$	°C	-40	~	+ 85	-40 ~ + 85		
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	1.1	1.27	1.4
	Trigger LED Forward Current	$I_{FT}$	mA	-	1	3	0.6	-	3
	Release LED Forward Current	$I_{FC}$	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON	$R_{ON}$	$\Omega$	-	35	50	-	35	50
	Current leakage when the relay is open	$I_{LEAK}$	$\mu$ A	-	-	1	-	-	1
	Capacitance between terminals	$C_{OFF}$	pF	-	30	-	-	30	-
Capacitance between I/O terminals		$C_{IO}$	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/O terminals		$R_{IO}$	M $\Omega$	1000	1.00E+08	-	1000	1.00E+08	-
Turn-ON time		$t_{ON}$	ms	-	0.3	1	-	0.3	2
Turn-OFF time		$t_{OFF}$	ms	-	0.1	1	-	0.1	1

[ Characteristics / Operation ratings ]

Item				Product Discontinuation			Recommended Replacement			
				G3VM-401A	G3VM-401D G3VM-401D(TR)		G3VM-401AY1	G3VM-401DY1 G3VM-401DY1(TR05)		
Type										
Package				DIP4			DIP4			
Contact form				1a(SPST-NO)			1a(SPST-NO)			
Terminal structure				PCB Terminals		Surface-mounting Terminals	PCB Terminals		Surface-mounting Terminals	
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		$I_F$	mA	50			30		
	Repetitive peak LED forward current		$I_{FP}$	A	1			1		
	LED reverse voltage		$V_R$	V	5			5		
Output	Load Voltage(AC/DC)		$V_{OFF}$	V	400			400		
	Continuous load current		$I_O$	mA	120			120		
Dielectric strength between input and output			$V_{IO}$	Vrms	2,500			5,000		
Operating Temperature			$T_a$	°C	-40	~	+ 85	-40	~ + 85	
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	1.1	1.27	1.4
	Trigger LED Forward Current		$I_{FT}$	mA	-	1	3	0.6	-	3
	Release LED Forward Current		$I_{FC}$	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON		$R_{ON}$	Ω	-	18	35	-	22	35
	Current leakage when the relay is open		$I_{LEAK}$	uA	-	-	1	-	-	1
	Capacity between terminals		$C_{OFF}$	pF	-	40	-	-	80	-
Capacity between I/O terminals			$C_{IO}$	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/O terminals			$R_{IO}$	MΩ	1000	1.00E+08	-	1000	1.00E+08	-
Turn-ON time			$t_{ON}$	ms	-	-	1	-	0.6	2
Turn-OFF time			$t_{OFF}$	ms	-	-	1	-	0.2	1

[ Characteristics / Operation ratings ]

Item				Product Discontinuation			Recommended Replacement			
				G3VM-401B	G3VM-401E G3VM-401E(TR)		G3VM-401AY1	G3VM-401DY1 G3VM-401DY1(TR05)		
Type										
Package				DIP6			DIP4			
Contact form				1a(SPST-NO)			1a(SPST-NO)			
Terminal structure				PCB Terminals		Surface-mounting Terminals	PCB Terminals		Surface-mounting Terminals	
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		$I_F$	mA	50			30		
	Repetitive peak LED forward current		$I_{FP}$	A	1			1		
	LED reverse voltage		$V_R$	V	5			5		
Output	Load Voltage(AC/DC)		$V_{OFF}$	V	400			400		
	Continuous load current	Connection A	$I_O$	mA	120			120		
		Connection B			120			-		
		Connection C			240			-		
Dielectric strength between input and output			$V_{IO}$	Vrms	2,500			5,000		
Operating Temperature			$T_a$	°C	-40	~	+ 85	-40	~	+ 85
Storage Temperature			$T_{sig}$	°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	1.1	1.27	1.4
	Trigger LED Forward Current		$I_{FT}$	mA	-	1	3	0.6	-	3
	Release LED Forward Current		$I_{FC}$	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON	Connection A	$R_{ON}$	$\Omega$	-	17	35	-	22	35
		Connection B			-	11	20	-	-	-
		Connection C			-	6	10	-	-	-
	Current leakage when the relay is open		$I_{LEAK}$	$\mu$ A	-	-	1	-	-	1
Capacitance between terminals		$C_{OFF}$	pF	-	40	-	-	80	-	
Capacitance between I/O terminals			$C_{IO}$	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/O terminals			$R_{IO}$	M $\Omega$	1000	1.00E+08	-	1000	1.00E+08	-
Turn-ON time			$t_{ON}$	ms	-	0.3	1	-	0.6	2
Turn-OFF time			$t_{OFF}$	ms	-	0.1	1	-	0.2	1



[ Characteristics / Operation ratings ]

Item				Product Discontinuation			Recommended Replacement			
				G3VM-402C	G3VM-402F G3VM-402F(TR)		G3VM-401AY1	G3VM-401DY1 G3VM-401DY1(TR05)		
Use 2 pcs. each										
Type										
Package				DIP8			DIP4			
Contact form				2a(DPST-NO)			1a(SPST-NO)			
Terminal structure				PCB Terminals		Surface-mounting Terminals	PCB Terminals		Surface-mounting Terminals	
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		$I_F$	mA	50			30		
	Repetitive peak LED forward current		$I_{FP}$	A	1			1		
	LED reverse voltage		$V_R$	V	5			5		
Output	Load Voltage(AC/DC)		$V_{OFF}$	V	400			400		
	Continuous load current		$I_O$	mA	120			120		
Dielectric strength between input and output			$V_{IO}$	Vrms	2,500			5,000		
Operating Temperature			$T_a$	°C	-40	~	+ 85	-40	~ + 85	
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	1.1	1.27	1.4
	Trigger LED Forward Current		$I_{FT}$	mA	-	1	3	0.6	-	3
	Release LED Forward Current		$I_{FC}$	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON		$R_{ON}$	Ω	-	18	35	-	22	35
	Current leakage when the relay is open		$I_{LEAK}$	μA	-	-	1	-	-	1
	Capacitance between terminals		$C_{OFF}$	pF	-	-	-	-	80	-
Capacitance between I/O terminals			$C_{IO}$	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/O terminals			$R_{IO}$	MΩ	1000	1.00E+08	-	1000	1.00E+08	-
Turn-ON time			$t_{ON}$	ms	-	-	1	-	0.6	2
Turn-OFF time			$t_{OFF}$	ms	-	-	1	-	0.2	1

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