


<b>NO:</b> REL - 244	<b>PRODUCT:</b> Multiple G3VM – MOS FET Relays
<b>DATE:</b> January 2022	<b>TYPE:</b> Discontinuation – Streamline Product Offering

## Multiple G3VM MOS FET Relays – DISCONTINUATION

In an effort to streamline our product offering and focus on popular models of Omron’s line of MOS FET Relays, OMRON will discontinue multiple G3VM MOS FET (DIP package) models at the end of November 2023. The suggested replacements are listed below. Please carefully read through this notification and note the differences. The following details will fully explain the discontinuation and suggested replacement considerations; should you have any additional questions, however, please communicate with the Relay Product Manager.

### LAST ORDER DATE (Last Time Buy Date)

**November 30, 2023**

Discontinued Model		Suggested Replacement
MOS FET Relays		MOS FET Relays
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
Model G3VM-62F1		Model G3VM-61DY1
Model G3VM-62F1(TR)		Model G3VM-61DY1(TR05) Use 2 pcs. each
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-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)

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



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

**Differences from discontinued product:**

Suggested Replacement Models	Body Color	Dimensions	Wire Connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
G3VM-61AY1/-DY1/-DY1(TR05) <u>Versus Discontinued models:</u> G3VM-61A1/-D1/-D1(TR)	--	**	**	**	*	*	**
G3VM-61AY1/ DY1/DY1(TR05) <u>Versus Discontinued models:</u> G3VM-61B/-E/-E(TR) G3VM-61B1/-E1/-E1(TR) G3VM-62C1/-F1/-F1(TR)	--	--	--	--	*	*	**
G3VM-351AY1/-DY1/-DY1(TR05) <u>Versus Discontinued models:</u> G3VM-351A/-D/-D(TR)	--	**	**	**	*	*	**
G3VM-351AY1/-DY1/-DY1(TR05) <u>Versus Discontinued models:</u> G3VM-351B/-E/-E(TR) G3VM-352C/-F/-F(TR)	--	--	--	--	*	*	**
G3VM-401AY1/-DY1/-DY1(TR05) <u>Versus Discontinued models:</u> G3VM-401A/-D/-D(TR)	--	**	**	**	*	*	**
G3VM-401AY1/-DY1/-DY1(TR05) <u>Versus Discontinued models:</u> G3VM-401B/-E/-E(TR) G3VM-402C/-F/-F(TR)	--	--	--	--	*	*	**

\*\* : Compatible  
 \* : Minor differences/Almost compatible  
 -- : Not compatible  
 - : No corresponding specification

**Discontinued Models and Suggested Replacements (Including, but not limited to the following):**

Discontinued Models	Suggested Replacements
G3VM-61A1	G3VM-61AY1
G3VM-61D1	G3VM-61DY1
G3VM-61D1(TR)	G3VM-61DY1(TR05)
G3VM-61B	G3VM-61AY1
G3VM-61E	G3VM-61DY1
G3VM-61E(TR)	G3VM-61DY1(TR05)
G3VM-61B1	G3VM-61AY1
G3VM-61E1	G3VM-61DY1
G3VM-61E1(TR)	G3VM-61DY1(TR05)
G3VM-62C1	G3VM-61AY1 (Use 2 pcs.)
G3VM-62F1	G3VM-61DY1 (Use 2 pcs.)
G3VM-62F1(TR)	G3VM-61DY1(TR05) (Use 2 pcs.)
G3VM-351A	G3VM-351AY1
G3VM-351D	G3VM-351DY1
G3VM-351D(TR)	G3VM-351DY1(TR05)
G3VM-351B	G3VM-351AY1
G3VM-351E	G3VM-351DY1
G3VM-351E(TR)	G3VM-351DY1(TR05)
G3VM-352C	G3VM-351AY1 (Use 2 pcs.)
G3VM-352F	G3VM-351DY1 (Use 2 pcs.)
G3VM-352F(TR)	G3VM-351DY1(TR05) (Use 2 pcs.)
G3VM-401A	G3VM-401AY1
G3VM-401D	G3VM-401DY1
G3VM-401D(TR)	G3VM-401DY1(TR05)
G3VM-401B	G3VM-401AY1
G3VM-401E	G3VM-401DY1
G3VM-401E(TR)	G3VM-401DY1(TR05)
G3VM-402C	G3VM-401AY1 (Use 2 pcs.)
G3VM-402F	G3VM-401DY1 (Use 2 pcs.)
G3VM-402F(TR)	G3VM-401DY1(TR05) (Use 2 pcs.)

**Body color:**

Discontinued Models	Suggested Replacements
<b>G3VM-61A1/-D1/-D1(TR)</b> <b>G3VM-61B/-E/-E(TR)</b> <b>G3VM-61B1/-E1/-E1(TR)</b> <b>G3VM-62C1/-F1/-F1(TR)</b> <b>G3VM-351A/-D/-D(TR)</b> <b>G3VM-351B/-E/-E(TR)</b> <b>G3VM-352C/-F/-F(TR)</b> <b>G3VM-401A/-D/-D(TR)</b> <b>G3VM-401B/-E/-E(TR)</b> <b>G3VM-402C/-F/-F(TR)</b>	<b>G3VM-61AY1/-DY1/-DY1(TR05)</b> <b>G3VM-351AY1/-DY1/-DY1(TR05)</b> <b>G3VM-401AY1/-DY1/-DY1(TR05)</b>
<b>White</b>	<b>Black</b>

**Dimensions:**

Discontinued Models		Suggested Replacements	
<p>G3VM-61A1/-351A/-401A</p>	<p>G3VM-61D/-D1(TR)/-351D/-D(TR)/-401D/-D(TR)</p>	<p>G3VM-61AY1/-351AY1/-401AY1</p> <p>Same</p>	<p>G3VM-61DY1/-DY1(TR05)/-351DY1/-DY1(TR05)/-401DY1/-DY1(TR05)</p> <p>Same</p>
Discontinued Models		Suggested Replacements	
<p>G3VM-61B/-B1/-351B/-401B</p>	<p>G3VM-61E/-E(TR)/-E1/-E1(TR)/-351E/TR)/-401E/-401E(TR)</p>	<p>G3VM-61AY1/-351AY1/-401AY1</p>	<p>G3VM-61DY1/-DY1(TR05)/-351DY1/-351DY1(TR05)/-401DY1/-DY1(TR05)</p>
Discontinued Models		Suggested Replacements	
<p>G3VM-62C1/-352C/-402C</p>	<p>G3VM-62F1/-F1(TR)/352F/-F(TR)/-402F/-F(TR)</p>	<p>G3VM-61AY1/-351AY1/-401AY1</p>	<p>G3VM-61DY1/-DY1(TR05)/-351DY1/-DY1(TR05)/-401DY1/-DY1(TR05)</p>

**Wire connection:**

Discontinued Models G3VM-61A1/-D1/-D1(TR) G3VM-351A/-D/-D(TR) G3VM-401A/-D/-D(TR)	Suggested Replacements G3VM-61AY1/-DY1/-DY1(TR05) G3VM-351AY1/-DY1/-DY1(TR05) G3VM-401AY1/-DY1/-DY1(TR05)
<p>(TOP VIEW)</p>	<p>Same</p>

**Wire Connection (continued):**

<p><b>Discontinued Models</b>  <b>G3VM-61B/-E/-E1(TR)</b>  <b>G3VM-61B1/-E1/-E1(TR)</b>  <b>G3VM-351B/-E/-E(TR)</b>  <b>G3VM-401B/-E/-E(TR)</b></p>	<p><b>Suggested Replacements</b>  <b>G3VM-61AY1/-DY1/DY1(TR05)</b>  <b>G3VM-351AY1/-DY1/-DY1(TR05)</b>  <b>G3VM-401AY1/-DY1/-DY1(TR05)</b></p>
<p>(TOP VIEW)</p>	<p>(TOP VIEW)</p>
<p><b>Discontinued Models</b>  <b>G3VM-62C1/-F1/-F1(TR)</b>  <b>G3VM-352C/-F/-F(TR)</b>  <b>G3VM-402C/-F/-F(TR)</b></p>	<p><b>Suggested Replacements</b>  <b>G3VM-61AY1/-DY1/DY1(TR05)</b>  <b>G3VM-351AY1/-DY1/-DY1(TR05)</b>  <b>G3VM-401AY1/-DY1/-DY1(TR05)</b>  <b>Use 2 pcs. each</b></p>
<p>(TOP VIEW)</p>	<p>(TOP VIEW)</p>

**Mounting Dimensions:**

Discontinued Models		Suggested Replacements	
<p>G3VM-61A1/-351A/-401A</p> <p>Bottom View</p>	<p>G3VM-61D1/-D1(TR)/-351D/-D(TR)/-401D/-D(TR)</p> <p>Top View</p>	<p>G3VM-61AY1/-351AY1/-401AY1</p> <p>Same</p>	<p>G3VM-61DY1/-DY1(TR05)/-351DY1/-DY1(TR05)/-401DY1/-DY1(TR05)</p> <p>Same</p>

**Mounting dimensions (continued):**

Discontinued Models		Suggested Replacements	
<p>G3VM-61B/-B1/-351B/-401B</p> <p>Bottom View</p> <p>Six, 0.8-dia. holes</p>	<p>G3VM-61E/-E(TR)/-E1/-E1(TR)/-351E/-E(TR)/-401E/-E(TR)</p> <p>Top View</p>	<p>G3VM-61AY1/-351AY1/-401AY1</p> <p>Bottom View</p> <p>Four, 0.8-dia. holes</p>	<p>G3VM-61DY1/-DY1(TR05)/-351DY1/-DY1(TR05)/-401DY1/-DY1(TR05)</p> <p>Top View</p>
Discontinued Models		Suggested Replacements	
<p>G3VM-62C1/-352C/-402C</p> <p>Bottom View</p> <p>Eight, 0.8-dia. holes</p>	<p>G3VM-62F1/-F1(TR)/352F/-F(TR)/-402F/-F(TR)</p> <p>Top View</p>	<p>G3VM-61AY1/-351AY1/-401AY1</p> <p>Bottom View</p> <p>Four, 0.8-dia. holes</p>	<p>G3VM-61DY1/-DY1(TR05)/-351DY1/-DY1(TR05)/-401DY1/-DY1(TR05)</p> <p>Top View</p>

## Characteristics:

Item			Discontinued Models			Suggested Replacements			
			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			$V_{i-o}$	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	$R_{ON}$	?	-	1	2	-	0.6	2
	Current leakage when the relay is open	$I_{LEAK}$	uA	-	-	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?	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 (continued):**

Item				Discontinued Models			Suggested Replacements			
				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		$V_{i-o}$	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	-	-	3	0.6	-	3
	Release LED Forward Current		$I_{FC}$	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON	Connection A	$R_{ON}$	?	-	1	2	-	0.6	2
		Connection B			-	0.5	1	-	-	-
		Connection C			-	0.25	-	-	-	-
Current leakage when the relay is open		$I_{LEAK}$	uA	-	-	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?	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 (continued):**

Item				Discontinued Models			Suggested Replacements			
				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			$V_{i-o}$	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	Connection A	$R_{ON}$	?	-	1	2	-	0.6	2
		Connection B			-	0.5	1	-	-	-
		Connection C			-	0.25	-	-	-	-
Current leakage when the relay is open		$I_{LEAK}$	uA	-	-	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?	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 (continued):

Item	Discontinued Models			Suggested Replacements					
	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		
Output	LED reverse voltage	$V_R$	V	5			5		
	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	$R_{ON}$	?	-	1	2	-	0.6	2
	Current leakage when the relay is open	$I_{LEAK}$	uA	-	-	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?	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 (continued):**

Item			Discontinued Models			Suggested Replacements				
			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		$I_{F1}$	mA	-	1	3	0.6	-	3
	Release LED Forward Current		$I_{FC}$	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON		$R_{ON}$	?	-	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			$R_{iO}$	M?	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 (continued):**

Item				Discontinued Models			Suggested Replacements			
				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		$V_{i-o}$	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	3	0.6	-	3
	Release LED Forward Current		$I_{FC}$	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON	Connection A	$R_{ON}$	?	-	35	50	-	35	50
		Connection B			-	28	40	-	-	-
		Connection C			-	14	20	-	-	-
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		$C_{i-o}$	pF	-	0.8	-	-	0.8	-	
Insulation resistance between I/O terminals		$R_{i-o}$	M?	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 (continued):

Item			Discontinued Models			Suggested Replacements				
			G3VM-352C	G3VM-352F G3VM-352F(TR)		G3VM-351AY1	G3VM-351DY1 G3VM-351DY1(TR05)			
Use 2 pcs. each										
<b>Type</b>										
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 <sub>F</sub>	mA	50		30			
	Repetitive peak LED forward current		I <sub>FP</sub>	A	1		1			
Output	LED reverse voltage		V <sub>R</sub>	V	5		5			
	Load Voltage(AC/DC)		V <sub>OFF</sub>	V	350		350			
	Continuous load current		I <sub>O</sub>	mA	120		100			
Dielectric strength between input and output			V <sub>LO</sub>	V <sub>rms</sub>	2,500		5,000			
Operating Temperature			T <sub>a</sub>	°C	-40	~	+ 85	-40 ~ + 85		
Storage Temperature			T <sub>stg</sub>	°C	-55	~	+ 125	-55 ~ + 125		
<b>Electrical Characteristics</b>			Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage		V <sub>F</sub>	V	1	1.15	1.3	1.1	1.27	1.4
	Trigger LED Forward Current		I <sub>FT</sub>	mA	-	1	3	0.6	-	3
	Release LED Forward Current		I <sub>FC</sub>	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON		R <sub>ON</sub>	?	-	35	50	-	35	50
	Current leakage when the relay is open		I <sub>LEAK</sub>	uA	-	-	1	-	-	1
	Capacitance between terminals		C <sub>OFF</sub>	pF	-	30	-	-	30	-
Capacitance between I/O terminals			C <sub>LO</sub>	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/O terminals			R <sub>LO</sub>	M?	1000	1.00E+08	-	1000	1.00E+08	-
Turn-ON time			t <sub>ON</sub>	ms	-	0.3	1	-	0.3	2
Turn-OFF time			t <sub>OFF</sub>	ms	-	0.1	1	-	0.1	1

### Characteristics (continued):

Item				Discontinued Models.			Suggested Replacements			
				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		
Output	LED reverse voltage		$V_R$	V	5			5		
	Load Voltage(AC/DC)		$V_{OFF}$	V	400			400		
	Continuous load current		$I_O$	mA	120			120		
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	3	0.6	-	3
	Release LED Forward Current		$I_{FC}$	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON		$R_{ON}$	?	-	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			$C_{i-O}$	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/O terminals			$R_{i-O}$	M?	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 (continued):**

Item				Discontinued Models.			Suggested Replacements			
				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			$V_{i-o}$	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	3	0.6	-	3
	Release LED Forward Current		$I_{FC}$	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON	Connection A	$R_{ON}$	?	-	17	35	-	22	35
		Connection B			-	11	20	-	-	-
		Connection C			-	6	10	-	-	-
Current leakage when the relay is open		$I_{LEAK}$	uA	-	-	1	-	-	1	
Capacitance between terminals		$C_{OFF}$	pF	-	40	-	-	80	-	
Capacitance between I/O terminals		$C_{i-o}$	pF	-	0.8	-	-	0.8	-	
Insulation resistance between I/O terminals		$R_{i-o}$	M?	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 (continued):

Item			Discontinued Models.			Suggested Replacements		
			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 <sub>F</sub>	mA	50		30	
	Repetitive peak LED forward current		I <sub>FP</sub>	A	1		1	
Output	LED reverse voltage		V <sub>R</sub>	V	5		5	
	Load Voltage(AC/DC)		V <sub>OFF</sub>	V	400		400	
	Continuous load current		I <sub>O</sub>	mA	120		120	
Dielectric strength between input and output			V <sub>LO</sub>	Vrms	2,500		5,000	
Operating Temperature			T <sub>a</sub>	°C	-40	~	+ 85	-40 ~ + 85
Storage Temperature			T <sub>stg</sub>	°C	-55	~	+ 125	-55 ~ + 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min. Typ. Max
Input	LED Forward voltage		V <sub>F</sub>	V	1	1.15	1.3	1.1 1.27 1.4
	Trigger LED Forward Current		I <sub>FT</sub>	mA	-	1	3	0.6 - 3
	Release LED Forward Current		I <sub>FC</sub>	mA	0.1	-	-	0.1 - -
Output	Maximum resistance with output ON		R <sub>ON</sub>	?	-	18	35	- 22 35
	Current leakage when the relay is open		I <sub>LEAK</sub>	uA	-	-	1	- - 1
	Capacitance between terminals		C <sub>OFF</sub>	pF	-	-	-	- 80 -
Capacitance between I/O terminals			C <sub>LO</sub>	pF	-	0.8	-	- 0.8 -
Insulation resistance between I/O terminals			R <sub>LO</sub>	M?	1000	1.00E+08	-	1000 1.00E+08 -
Turn-ON time			t <sub>ON</sub>	ms	-	-	1	- 0.6 2
Turn-OFF time			t <sub>OFF</sub>	ms	-	-	1	- 0.2 1

\* 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.

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This PCN is intended for use in the Americas  
Last time buy dates are subject to change based on availability