

ENGINEERINGUPDATE



NO: REL - 244 PRODUCT: Multiple G3VM – MOS FET Relays

DATE: January 2022 TYPE: 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)
(X)		
	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)
	MIONEL GOVINI-331D(IV)	Middel 634M 3315/11(1103)
	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-401AY1

Model G3VM-401DY1

Model G3VM-351DY1(TR05)

Use 2 pcs. each

X

Model G3VM-401A Model G3VM-401D Model G3VM-401D(TR)

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

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

Model G3VM-401AY1 Model G3VM-401DY1

Model G3VM-401DY1(TR05)

Model G3VM-401DY1(TR05)

Model G3VM-401AY1 Model G3VM-401DY1

Model G3VM-401DY1(TR05)

Use 2 pcs. each

Differences from discontinued product:

Suggested Replacement Models	Body Color	Dimen -sions	Wire Connec -tion	Mounting Dimensions	Charact -eristics	Operation ratings	Operation methods
G3VM-61AY1/-DY1/-DY1(TR05) Versus Discontinued models:		**	**	**	*	*	**
G3VM-61A1/-D1/-D1(TR)							
G3VM-61AY1/ DY1/DY1(TR05) Versus Discontinued models: G3VM-61B/-E/-E(TR) G3VM-61B1/-E1/-E1(TR) G3VM-62C1/-F1/-F1(TR)					*	*	**
G3VM-351AY1/-DY1/-DY1(TR05) Versus Discontinued models: G3VM-351A/-D/-D(TR)		**	**	**	*	*	**
G3VM-351AY1/-DY1/-DY1(TR05) Versus Discontinued models: G3VM-351B/-E/-E(TR) G3VM-352C/-F/-F(TR)	1	ł	1		*	*	**
G3VM-401AY1/-DY1/-DY1(TR05) Versus Discontinued models: G3VM-401A/-D/-D(TR)	1	**	**	**	*	*	**
G3VM-401AY1/-DY1/-DY1(TR05) Versus Discontinued models: G3VM-401B/-E/-E(TR) G3VM-402C/-F/-F(TR)	1	1	1		*	*	**

** : 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
G3VM-61A1/-D1/-D1(TR) G3VM-61B/-E/-E(TR) G3VM-61B1/-E1/-E1(TR) G3VM-62C1/-F1/-F1(TR) G3VM-351A/-D/-D(TR) G3VM-351B/-E/-E(TR) G3VM-352C/-F/-F(TR) G3VM-401A/-D/-D(TR) G3VM-401B/-E/-E(TR)	G3VM-61AY1/-DY1/-DY1(TR05) G3VM-351AY1/-DY1/-DY1(TR05) G3VM-401AY1/-DY1/-DY1(TR05)
White	Black

Dimensions:

<u>Dimensions:</u>							
Discontinu	ied Models	Suggested Replacements					
G3VM-61A1/-351A/-401A 4.58±0.25 6.4±0.25 0.8±0.25 2.5½½± 0.5±0.15 0.5±0.15 0.5±0.15 -2.54±0.25	G3VM-61D/-D1(TR)/-351D/-D(TR)/-401D/-D(TR) 4.58±0.25 6.4±0.25 0.1.0 1.0 2.54±0.25 1.0.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	G3VM-61AY1/-351AY1/- 401AY1 Same	G3VM-61DY1/-DY1(TR05)/- 351DY1/-DY1(TR05)/- 401DY1/-DY1(TR05) Same				
Discontinu	ied Models	Suggested	Replacements				
G3VM-61B/-B1/-351B/-401B 7.12-0.25 0.8-0.25 0.5-0.15 0.5-0.15 7.85 to 8.80	G3VM-61E/-E(TR)/-E1/-E1(TR)/-351/-351E(TR)/-401E/-401E(TR) 7.1240.25 0.00 1	G3VM-61AY1/-351AY1/- 401AY1 4.58±0.25 6.4±0.25 0.8±0.25 2.582± 0.5±0.1 7.62±0.25 7.62±0.25 7.85~8.80	G3VM-61DY1/-DY1(TR05)/- 351DY1/-351DY1(TR05)/- 401DY1/-DY1(TR05)				
Discontinu	ied Models	Suggested	Replacements				
G3VM-62C1/-352C/-402C	G3VM-62F1/-F1(TR)/352F/-F(TR)/-402F/-F(TR)	G3VM-61AY1/-351AY1/- 401AY1	G3VM-61DY1/-DY1(TR05)/- 351DY1/-DY1(TR05)/- 401DY1/-DY1(TR05)				
3.85 ^{-0.15} 2.5 min. 0.5-0.1 0.5-0.1 7.85 to 8.80	7.62-025 3.65-0.25 1.0 min. 1.0 min. 1.0 min.	3.65+0.15 2.5 D.L. 1.2±0.15 0.5±0.1 	7.62±025 3.65±015 1.00UT				

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)
(TOP VIEW)	Same

Wire Connection (continued):

Discontinued Models G3VM-61B/-E/-E1(TR) G3VM-61B1/-E1/-E1(TR) G3VM-351B/-E/-E(TR) G3VM-401B/-E/-E(TR)	Suggested Replacements G3VM-61AY1/-DY1/DY1(TR05) G3VM-351AY1/-DY1/-DY1(TR05) G3VM-401AY1/-DY1/-DY1(TR05)
(TOP VIEW) 6 5 4 1 2 3	(TOP VIEW) 4 3 1 2
Discontinued Models G3VM-62C1/-F1/-F1(TR) G3VM-352C/-F/-F(TR) G3VM-402C/-F/-F(TR)	Suggested Replacements G3VM-61AY1/-DY1/DY1(TR05) G3VM-351AY1/-DY1/-DY1(TR05) G3VM-401AY1/-DY1/-DY1(TR05) Use 2 pcs. each
(TOP VIEW) 8 7 6 5 1 2 3 4	(TOP VIEW) 4 3 1 2

Mounting Dimensions:

Discontinu	ed Models	Suggested Replacements					
G3VM-61A1/-351A/-401A	G3VM-61D1/-D1(TR)/- 351D/-D(TR)/-401D/-D(TR)	G3VM-61AY1/-351AY1/- 401AY1	G3VM-61DY1/-DY1(TR05)/- 351DY1/-DY1(TR05)/- 401DY1/-DY1(TR05)				
Bottom View Four, 0.8-dia. holes (0.61) (1.52) (1.52)	2.54	Same	Same				

Mounting dimensions (continued):

Discontinu	ed Models	Suggested R	eplacements				
G3VM-61B/-B1/-351B/-401B	G3VM-61E/-E(TR)/-E1/- E1(TR)/-351E/-E(TR)/- 401E/-E(TR)	G3VM-61AY1/-351AY1/- 401AY1	G3VM-61DY1/-DY1(TR05)/- 351DY1/-DY1(TR05)/- 401DY1/-DY1(TR05)				
Bottom View	Top View	Bottom View	Top View				
Six, 0.8-dia. holes 2.54 (0.61) (1.52) (0.61)	2.54 - 2.54 8.3 to 8.8 1.3 - 1.5	Four, 0.8-dia. holes 2.54 (0.61) (1.52) (1.52) Four, 0.8-dia. holes 2.54 8.3 to 8.8 1.3 1.5					
Discontinu	ed Models	Suggested Replacements					
G3VM-62C1/-352C/-402C	G3VM-62F1/-F1(TR)/352F/- F(TR)/-402F/-F(TR)	G3VM-61AY1/-351AY1/- 401AY1	G3VM-61DY1/-DY1(TR05)/- 351DY1/-DY1(TR05)/- 401DY1/-DY1(TR05)				
Datte and Ma							
Bottom View Eight, 0.8-dia. holes	Top View	Bottom View	Top View				

Characteristics:

CH	aracteristics:											
				D	Discontinued Models				Suggested Replacements			
	ltem	G3VM-61D1 G3VM-61D1(TR)			G3VM-61DY1 G3VM-61DY1(TR05)							
ур	e											
Р	ackage				DII	94			DIP4			
С	ontact form				1a(SPS	T-NO)			1a(SPST-NC)		
Т	erminal structure			PCB Te	rminals		-mounting minals	РСВ Те		face-mounting Terminals		
bs	olute maximum Rating	Symbol	Unit		Rat				Rating			
	LED forward current	IF	mA		5)			30			
Input	Repetitive peak LED forward current	I _{FP}	Α		1			1				
	LED reverse voltage	V _R	V		5			5				
	Load Voltage(AC/DC)	V _{OFF}	V	60				60				
	Continuous load current	Io	mA		500				500			
D	ielectric strength between input and output	V _{I-O}	Vrms	2,500				5,000				
0	perating Temperature	Ta	°C	-40 ~ +85			-40 ~ +85					
St	torage Temperature	T _{stg}	°C	-55 ~ + 125		-55	~	~ + 125				
lec	trical Characteristics	Symbol	Unit	Min.	Ту	D .	Max	Min.	Тур.	Max		
-	LED Forward voltage	V _F	٧	1	1.1	5	1.3	1,1	1.27	1,4		
Input	Trigger LED Forward Current	I _{FT}	mA	_	1,0		3	0.6	-	3		
	Release LED Forward Current	I _{FC}	mA	0.1	-		_	0.1	_	_		
	Maximum resistance with output ON	Ron	?	-	1		2	-	0.6	2		
	Current leakage when the relay is open	I _{LEAK}	uA	-	_		1	-	_	1		
	Capacitance between terminals	Coff	рF	-	13))	-	_	130	_		
C	apacitance between I/O terminals	CI-O	рF	_	0.		_	-	0.8	_		
In	sulation resistance between I/O terminals	R _{I-O}	M?	1000	1.00E	+08	_	1000	1.00E+08	_		
T	urn-ON time	ton	ms	-	0.		2	-	1	3		
T	urn-OFF time	toff	ms	_	0.		0.5	_	0.2	1		

					Di	scontinue	d Models		Sug	gested F	Replacen	nents	
ltem						M-61B G3VM-61E G3VM-61E(TR)			G3VM-	-61AY1	G3VM-6	51DY1 51DY1(TR05)	
ре													
Pa	ackage					DI	P6				DIP4		
Со	ontact form					1a(SP	ST-NO)			1a(S	SPST-NO		
Те	rminal structure				PCB Te	erminals		-mounting minals	PCB Te	erminals		ace-mounting Ferminals	
sol	lute maximum Rating		Symbol	Unit		Rat				F	Rating	•	
±	LED forward current		I _F	mA		5	0				30		
Input	Repetitive peak LED forward	d current	I _{FP}	Α		1					1		
	LED reverse voltage		V _R	V							5		
_	Load Voltage(AC/DC)		V _{OFF}	V					60				
Outhout	Connection A Continuous load current Connection B Connection C				500			500					
			I _O	mA	500				-				
						1,0					_		
Die	electric strength between inpu	t and output	V _{I-O}	Vrms	·					5,000			
Ор	erating Temperature		Ta	°C	-40 ~ + 85				-40 ~ +85				
Sto	orage Temperature		T _{stg}	°C	-55							+ 125	
ectr	rical Characteristics		Symbol	Unit	Min.	Ту	p.	Max	Min.	Ту	rp.	Max	
_	LED Forward voltage		V _F	V	1	1.1	5	1.3	1.1	1,2	97	1.4	
Input	Trigger LED Forward Currer	nt	I _{FT}	mA	_	-		3	0.6	-	-	3	
	Release LED Forward Curre	ent	I _{FC}	mA	0.1	=		-	0.1	_		-	
		Connection A			-	1		2	-	0.	.6	2	
ţ	Maximum resistance with	Connection B	Ron	?	-	0.	.5	1	-	_		-	
Ĉ	· 	Connection C			-	0.:	25	-	-	-		-	
	Current leakage when the re	elay is open	I _{LEAK}	uA	_	-		1	-	_		1	
	Capacitance between termin	nals	C _{OFF}	pF		13	0	-	ı	13	30	-	
Cap	pacitance between I/O termin	als	CI-O	рF	_	0.	8	-	_	0.	.8	_	
nsı	ulation resistance between I/0	O terminals	R _{I-O}	M?	1000	1.00	+08	-	1000	1.00	Ξ+08	_	
Tur	rn-ON time		t _{on}	ms	-	0.	6	2	-	1		3	
Tur	rn-OFF time		toff	ms	_	0	1	1	_	0.	2	1	

					Dis	Discontinued Models				Suggested Replacements			
	Iten	n			G3VM-61E1 G3VM-61E1(TR)			G3VM-61DY1 G3VM-61DY1(TR05)					
ype	:												
Pa	ackage					DI	P6				DIP4		
Co	ontact form					1a(SP	ST-NO)			1a(SI	PST-NO)		
Te	erminal structure				PCB Te	rminals		e-mounting rminals	PCB Terminals Surface-mounting				
oso	lute maximum Rating		Symbol	Unit		Rat				R	ating	0	
-	LED forward current		I _F	mA		5	0				30		
Input	Repetitive peak LED forward	d current	I _{FP}	Α			· 				1		
	LED reverse voltage		V _R	V		,	5		5				
•	Load Voltage(AC/DC)		V _{OFF}	V		6	0				60		
4		Connection A	ion A		500			500					
		Connection B	I _o	mA		500				-			
	Connection C					1,0	00				_		
Die	electric strength between inpu	t and output	V _{I-O}	Vrms		2,5	500		5,000				
Ор	erating Temperature		Ta	°C	-40 ~ + 85				-40 ~ +85				
Sto	orage Temperature		T _{stg}	°C	-55				-55 ~ + 125				
ect	rical Characteristics		Symbol	Unit	Min.	Ту	p.	Max	Min.	Тур	٥.	Max	
=	LED Forward voltage		V _F	>	1	1.1	15	1.3	1.1	1.2	7	1.4	
Input	Trigger LED Forward Curre	nt	I _{FT}	mA	-	1.	6	3	0.6	_		3	
	Release LED Forward Curre	ent	I _{FC}	mA	0.1			-	0.1	-		-	
		Connection A			-			2	-	0.6		2	
41.04	Maximum resistance with	Connection B	Ron	?	-	0.5		1	=	_		_	
Ċ	5	Connection C			-	0.	25	-	_	-		-	
	Current leakage when the re	elay is open	I _{LEAK}	uA	-	-	=	1	-	-		1	
	Capacitance between termin	nals	Coff	pF	-	13	80	-	=	130	0	=	
Са	pacitance between I/O termin	als	C _{I-O}	рF	-	0.	8	-	-	0.8		-	
Ins	ulation resistance between I/0	O terminals	R _{I-O}	M?	1000	1.001	E+08	-	1000	1.00E	+08	-	
Tu	rn-ON time		ton	ms	-	0	.8	2	_	1		3	
Tu	rn-OFF time		t _{OFF}	ms	_	0.	1	0.5	_	0.2		1	

<u>Ch</u>	naracteristics (continued):										
				Disco	ntinued Model	ls	Sug	gested Replacen	nents		
	Item			G3VM-6	2C1 G3VM-		G3VM-	61AY1 G3VM-6	1DY1 1DY1(TR05)		
				037111 0	G3VM-	62F1(TR)	Use 2 pcs. each				
Тур	ре										
F	Package				DIP8		DIP4				
(Contact form				2a(DPST-NO)			1a(SPST-NC)		
	Terminal structure			PCB Tern		ce-mounting erminals	PCB Te		face-mounting Terminals		
Abs	solute maximum Rating	Symbol	Unit		Rating	CHIMICIO		Rating	Terrinido		
	LED forward current	I _F	mA		50			30			
2	Repetitive peak LED forward current	I _{FP}	Α		1		1				
	LED reverse voltage	VR	٧		5			5			
	Load Voltage(AC/DC)	V _{OFF}	V		60			60			
	Continuous load current	Io	mA		500			500			
[hielectric strength between input and output V_{I-O} Vrms				2,500			5,000			
C	perating Temperature T _a		°C	-40 ~ + 85			-40 ~ +85				
5	Storage Temperature	T _{stg}	°C	-55	~	+ 125	-55	~	+ 125		
Ele	ectrical Characteristics	Symbol	Unit	Min.	Тур.	Max	Min.	Тур.	Max		
1	LED Forward voltage	V _F	V	1	1.15	1.3	1,1	1.27	1,4		
1 1	Trigger LED Forward Current	I _{FT}	mA	-	1.6	3	0.6	-	3		
	Release LED Forward Current	I _{FC}	mA	0.1	-	-	0.1	-	-		
	Maximum resistance with output ON	Ron	?	-	1	2	-	0.6	2		
	Current leakage when the relay is open	I _{LEAK}	uA	-	-	1	-	-	1		
	Capacitance between terminals	C _{OFF}	p F	-	130	-	-	130	-		
C	Capacitance between I/O terminals	C _{I-O}	р F	-	0.8	-	-	0.8	-		
l li	Insulation resistance between I/O terminals	R _{I-O}	M?	1000	1.00E+08	-	1000	1.00E+08	-		
יַן	Turn-ON time	ton	ms	-	0.8	2	-	1	3		
וַן	Turn-OFF time	toff	ms	-	0.1	0.5	-	0.2	1		

<u>Ch</u>	a	<u>racteristics (continued):</u>											
					Dis	continued	Models		Sug	gested Re	placeme	ents	
		Item			G3VM	1-351A	G3VM-351 G3VM-351				G3VM-3 G3VM-3	351DY1 351DY1(TR05)	
уp	е												
E	Pa	ckage				D	IP4			ı	DIP4		
Contact form					1a(SP	ST-NO)			1a(S	PST-NO			
ŀ	Te	rminal structure			PCB Te	erminals		-mounting minals	PCB Te	erminals		ace-mounting Ferminals	
bs	bsolute maximum Rating Symbol			Unit		Ra	ting			R	ating		
Ĺ		LED forward current	l _F	mA			50				30		
provid	Ĕ	Repetitive peak LED forward current	Ipp	Α			1				1		
l	=	LED reverse voltage	V _R	٧			5		5				
Γ	at o	Load Voltage(AC/DC)	V _{OFF}	٧		3	50		350				
l	_	Continuous load current I ₀ m				1.	20				100		
Б	Diel	lectric strength between input and output	Vio	Vrms		2.	500			5	5,000		
c	Эре	erating Temperature	Ta	°C	-40		~	+ 85	-40 ~ +85				
s	Sto	rage Temperature	T _{stg}	ů	-55					-55 ~ + 125			
lec	ctr	ical Characteristics	Symbol	Unit	Min.	Т	yp.	Max	Min.	Тур	p.	Max	
Ĺ	_	LED Forward voltage	V _F	٧	1	1	15	1.3	1,1	1.2	7	1.4	
loon d	Ĕ	Trigger LED Forward Current	les	mA	-		1	3	0.6	-		3	
L		Release LED Forward Current	IFC	mA	0.1		-		0.1	-		-	
Γ	Output	Maximum resistance with output ON	Ron	?	-		35	50	-	35	,	50	
l	õ	Current leakage when the relay is open	LEAK	uА			-	1		-		1	
		Capacitance between terminals	Coff	pF	-		30	_	-	30)	-	
C	aç	pacitance between I/O terminals	Cso	pF).8		-	0.8	8	-	
li	nsı	ulation resistance between I/O terminals	Rio	M?	1000	1.00	E+08		1000	1.00E	+08	-	
7	Tun	n-ON time	ton	ms	-	0).3	1	-	0.3	3	2	
ī	Tun	n-OFF time	toff	ms).1	1		0.1	1	1	

					Disc	continued	Models		Sugg	gested Re	placeme	ents	
	Iter	n			G3VM	-351B	G3VM-35 G3VM-35		G3VM-351AY1 G3VM-351DY1 G3VM-351DY1(TR05)				
уре	•												
Pa	ackage					DI	P6		DIP4				
Co	ontact form				1a(SP	ST-NO)		1a(SPST-NO)					
Terminal structure					РСВ Те	rminals		e-mounting minals	PCB Terminals Surface-mountin Terminals				
bsolute maximum Rating Symb				Unit		Ra				R	Rating	oaio	
±	LED forward current		I _F	mA		5	0				30		
Input	Repetitive peak LED forward current		I _{FP}	Α							1		
	LED reverse voltage			V							5		
*	Load Voltage(AC/DC)			V		3:	50			350			
4				120				100					
	Continuous load current	Connection B	Io	mA		12					_		
		Connection C					40				=		
Die	electric strength between inpu	ut and output	V _{I-O}	Vrms		2,5	500				5,000		
Ор	erating Temperature		Ta	°C	-40		J	+ 85	-40 ~ +85				
Sto	orage Temperature		T _{stg}	°C	-55 ~ + 125			-55 ~ + 125					
ect	rical Characteristics		Symbol	Unit	Min.	Ty	p.	Max	Min.	Ту	p.	Max	
Ŧ.	LED Forward voltage		V _F	٧	1	1.1	5	1.3	1.1	1.2	7	1.4	
nbnt	Trigger LED Forward Curre	nt	I _{FT}	mΑ	_			3	0.6	-		3	
	Release LED Forward Curr	ent	I _{FC}	mΑ	0.1	-	=	-	0.1	-		-	
		Connection A			-	3	5	50	-	35	5	50	
4	Maximum resistance with	Connection B	Ron	?	-	2	8	40	-	-		-	
Ċ	5	Connection C			-	1	4	20	-	_		_	
	Current leakage when the r	elay is open	pen I _{LEAK} uA			1	-	_		1			
	Capacitance between terminals		C _{OFF}	pF	-	3	0	-	-	3()	-	
Capacitance between I/O terminals $C_{I \odot}$ pF				рF	-	0	.8	-	-	0.	8	-	
Ins	ulation resistance between I/	O terminals	R _{I-O}	M?	1000	1.00	+08	-	1000	1.00E	+08	-	
Tu	rn-ON time		t _{on}	ms	-	0	.3	1	-	0.	3	2	
Tu	rn-OFF time	toff	ms	_	0	.1	1	_	0.	1	1		

				Dis	continued	Models		Su	ggested Re	placem	ients	
	Item			G3VM-		G3VM-352F		G3VM-	-351AY1 G3VM-351DY1 G3VM-351DY1(TR05			
				G3VIVI-	3320	53VM-352	PF(TR)	Use 2 pcs. each				
уре	1											
Pa	ackage				DIP	8			D	IP4		
Co	ontact form				2a(DPS	T-NO)			1a(SP	ST-NO)	1	
Те	erminal structure			PCB Terminals Surface-mounting Terminals				PCB Te	erminals		ace-mounting Ferminals	
bso	lute maximum Rating	Symbol	Unit		Ratii	ng			Ra	ating		
=	LED forward current	I _F	mA		50					30		
Input	Repetitive peak LED forward current	I FP	А		1			1				
+	LED reverse voltage	V _R	V		5			5				
5	Load Voltage(AC/DC)	V _{OFF}	V		350)		350				
	Continuous load current	Io	mA		120)			1	00		
Die	electric strength between input and output		Vrms		2,500				5,	000		
Ор	erating Temperature	Ta	°C	-40	~	~		-40 ~ +			+ 85	
Sto	orage Temperature	T _{stg}	°⊂	-55		~ + 125		-55		~ + 125		
lect	rical Characteristics	Symbol	Unit	Min.	Тур).	Max	Min.	Тур.		Max	
ļ.	LED Forward voltage	V _F	V	1	1,15		1.3	1,1	1,27		1,4	
Input	Trigger LED Forward Current	I _{FT}	mA	_	1		3	0.6	_		3	
	Release LED Forward Current	I _{FC}	mA	0.1	-		_	0.1	-		-	
ţ	Maximum resistance with output ON	Ron	?	-	35		50	-	35		50	
ح ا	Current leakage when the relay is open	I _{LEAK}	uA	-	_		1	_	-		1	
	Capacitance between terminals	C _{OFF}	рF	-	30		-		30			
Ca	pacitance between I/O terminals	C _{FO}	рF	-	0.8	}	-	-	0.8		-	
Ins	sulation resistance between I/O terminals	R⊦o	M?	1000	1.00E+0	8	-	1000	1.00E+08	3	-	
Tu	rn-ON time	ton	ms	-	0.3		1	-	0.3		2	
Tu	rn-OFF time	toff	ms	_	0.1		1	_	0.1		1	

				Dis	continued N	∕lodels.		Su	ggested F	Replacer	nents
	ltem			G3VM-		VM-401 VM-401		G3VM-	-401AY1 G3VM-401DY1 G3VM-401DY1(TR		
уре)										
Pi	ackage				DIP4					DIP4	
C	ontact form				1a(SPST				1a(S	PST-NO	
Te	erminal structure			PCB Terminals Surface-mounting Terminals			PCB To	erminals		ace-mounting Terminals	
bsolute maximum Rating Symbol Unit			Unit		Rating				F	Rating	
=	LED forward current	IF	mA		50					30	
Input	Repetitive peak LED forward current	I _{FP}	Α		1		1				
١.	LED reverse voltage	V _R	٧		5		5				
	Load Voltage(AC/DC)	V _{OFF}	٧		400				400		
	Continuous load current	Io	mA		120					120	
Di	electric strength between input and output	V _{HO}	Vrms		2,500				5,000		
Op	perating Temperature	Ta	°C	-40 ~ + 85			+ 85	-40		~	+ 85
St	orage Temperature	T _{stg}	°C	-55	~	~ + 125		-55		~ _+ 125	
ec	trical Characteristics	Symbol	Unit	Min.	Тур.		Max	Min.	Туј	p.	Max
Ħ	LED Forward voltage	V _F	٧	1	1.15		1.3	1,1	1,2	7	1.4
Input	Trigger LED Forward Current	I _{FT}	mA	_	1		3	0.6	Ti di		3
	Release LED Forward Current	I _{FC}	mA	0.1	_		1	0.1	1		_
	Maximum resistance with output ON	Ron	?	_	18		35	_	22	2	35
(Current leakage when the relay is open	I _{LEAK}	uA	-	_		1	-			1
	Capacity between terminals	Coff	рF	-	40		-	-	80)	-
Ca	apacity between I/O terminals	CHO	рF	-	0.8		ı	-	0.8	1	_
Ins	sulation resistance between I/O terminals	R _{HO}	M?	1000	1.00E+	08	-	1000	1.00E+08	3	_
Τι	ırn-ON time	ton	ms	-	_		1	-	0.6		2
Τι	ırn-OFF time	t _{OFF}	ms	_	_		1	_	0.3	2	1

					Dis	continued	Models.		Sug	gested R	eplacem	ents	
	Ite	m			G3VM-	G3VM-401B G3VM-401E G3VM-401E(TR)				VM-401AY1 G3VM-401DY1 G3VM-401DY1(TR05)			
Тур	e												
Р	Package					DIF	'6		DIP4				
С	ontact form					1a(SPS				1a(S	PST-NO)		
Т	erminal structure				PCB Te	rminals		-mounting minals	PCB Te	rminals		ce-mounting erminals	
Abs	bsolute maximum Rating			Unit		Rati				R	ating		
Ę	LED forward current	beak LED forward current I_{FP} A e voltage V_R V				5()				30		
nont	Repetitive peak LED forwa	I _{FP}	Α		1					1			
	LED reverse voltage			V		5					5		
	Load Voltage(AC/DC)	V _{OFF}	V		40	0				400			
	andino ontono				12	0				120			
	Continuous load current	Connection B	Io	mA		12	0				_		
		Connection C				24	.0				-		
D	ielectric strength between inp	out and output	V _{I-O}	Vrms		2,5	00			5	5,000		
0	perating Temperature		Ta	°C	-40	-40 ~ + 85				~		+ 85	
St	torage Temperature	T _a ∘ _C			-55 ~ + 125			+ 125	-55 ~ + 125			+ 125	
Elec	trical Characteristics		Symbol	Unit	Min.	Туј	٥.	Max	Min.	Тур) .	Max	
=	LED Forward voltage		V _F	٧	1	1,1	5	1.3	1.1	1.2	7	1.4	
Input	Trigger LED Forward Curre	ent	I _{FT}	mA	-	1		3	0.6	_		3	
	Release LED Forward Cur	rent	I _{FC}	mA	0.1	-		-	0.1	_		-	
		Connection A			_	17		35	-	22	<u>, </u>	35	
	Maximum resistance with output ON	Connection B	Ron	?	-	11		20	-	_		=	
	<u> </u>	Connection C			_	6		10	_	-		-	
	Current leakage when the	relay is open	I _{LEAK}	uA	_	-		1	-	-		1	
	Capacitance between term	ninals	C _{OFF}	рF	-	40)	-	-	80)	-	
C	apacitance between I/O termi	inals	C _{I-O}	рF	_	0.8	3	-	-	0.0	3	-	
In	sulation resistance between I	R _{I-0}	M?	1000	1.00E	+08	-	1000	1.00E	+08	-		
T	urn-ON time		ton	ms	_	0	3	1	_	0.6	5	2	
Т	urn-OFF time		toff	ms	_	0.	1	1	_	0.2		1	

				Disc	ontinued	Models	L	Sug	gested Rep	lacemer	nts	
	Item			G3VM-4		3VM-40 3VM-40		G3VM-4		8VM-401E 8VM-401E	DY1 DY1(TR05)	
						13 V IVI-4U	2F(TK)	Use 2 pcs. each				
уре	9											
P	ackage				DIP	8		DIP4				
С	ontact form				2a(DPS			1a(SPST-NO)				
Te	erminal structure			PCB Tern	ninals		-mounting minals	PCB Te	rminals		e-mounting minals	
bsc	olute maximum Rating	Symbol	Unit		Ratir	ng			Rati	ng		
=	LED forward current	IF	mA		50			30				
Input	Repetitive peak LED forward current	I _{FP}	Α		1			1				
	LED reverse voltage	VR	V		5			5				
	Load Voltage(AC/DC)	Voff	V		400)		400				
	Continuous load current	Io	mA		120				120)		
Di	electric strength between input and output	V _{HO}	Vrms	2,500					5,00	00		
O	perating Temperature	Ta	°C	-40 ~ + 85			-40 ~ + 85					
St	orage Temperature	T _{stg}	°C	-55	~	~ + 125		-55		~ + 125		
lec	trical Characteristics	Symbol	Unit	Min.	Тур		Max	Min.	Тур.		Max	
=	LED Forward voltage	V _F	V	1	1.15		1.3	1.1	1.27		1.4	
Input	Trigger LED Forward Current	I _{FT}	mA	_	1		3	0.6	-		3	
	Release LED Forward Current	I _{FC}	mA	0.1	-		-	0.1	-		-	
	Maximum resistance with output ON	Ron	?	-	18		35	-	22		35	
١,	Current leakage when the relay is open	I _{LEAK}	uA	-	_		1	_	-		1	
L	Capacitance between terminals	C _{OFF}	pF	-	_		_	-	80		-	
Ca	apacitance between I/O terminals	CHO	рF	-	0.8		-	-	0.8		=	
ln:	sulation resistance between I/O terminals	R _{HO}	M?	1000	1.00E ·	+08	-	1000	1.00E+08	3	-	
Τι	ırn-ON time	ton	ms	-	-		1	-	0.6		2	
Τι	urn-OFF time	toff	ms	_	_		1	_	0.2		1	

Specifications in this product news are as of the issue date and are subject to change without notice.

Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.

This PCN is intended for use in the Americas

Last time buy dates are subject to change based on availability

^{*} 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.