PRODUCT NEWS

Product Discontinuation Notices

OMRON

Issue Date
January 05, 2026

20260105_DOP_00001

NOTE:
This PDN is intended for use exclusively in EUROPE, Middle East and Africa.
Additionally, the listed products are only a part of complete range.

Product Discontinuation	Recommended Replacement
MOSFET Relay	MOSFET Relay
G3VM-101HR	G3VM-101HR2
G3VM-101HR(TR)	G3VM-101HR2(TR)
G3VM-101HR1	G3VM-101HR2
G3VM-101HR1(TR05)	G3VM-101HR2(TR05)
G3VM-101LR	G3VM-101UR
G3VM-101LR(TR05)	G3VM-101UR(TR05)
G3VM-21HR	G3VM-31HR1
G3VM-21HR(TR)	G3VM-31HR1(TR05)
G3VM-21LR	G3VM-21UR10
G3VM-21LR(TR05)	G3VM-21UR10(TR05)
G3VM-21LR1	G3VM-21UR1
G3VM-21LR1(TR05)	G3VM-21UR1(TR05)
G3VM-21LR10	G3VM-21UR10
G3VM-21LR10(TR05)	G3VM-21UR10(TR05)
G3VM-21LR11	G3VM-21UR11
G3VM-21LR11(TR05)	G3VM-21UR11(TR05)
G3VM-31HR	G3VM-31HR1
G3VM-31HR(TR05)	G3VM-31HR1(TR05)
G3VM-41GR8	G3VM-61VR
G3VM-41GR8(TR)	G3VM-61VR(TR)
G3VM-41HR	G3VM-61HR2
G3VM-41HR(TR)	G3VM-61HR2(TR05)
G3VM-41LR10	G3VM-41UR10
G3VM-41LR10(TR05)	G3VM-41UR10(TR05)
G3VM-41LR11	G3VM-41UR11
G3VM-41LR11(TR05)	G3VM-41UR11(TR05)
G3VM-41LR4	G3VM-41UR4
G3VM-41LR4(TR05)	G3VM-41UR4(TR05)
G3VM-41LR5	G3VM-41UR12
G3VM-41LR5(TR05)	G3VM-41UR12(TR05)
G3VM-41LR6	G3VM-41UR12

G3VM-41LR6(TR05)	**G3VM-41UR12(TR05)**
G3VM-61HR	**G3VM-61HR2**
G3VM-61HR(TR)	**G3VM-61HR2(TR05)**
G3VM-61HR1	**G3VM-61HR2**
G3VM-61HR1(TR05)	**G3VM-61HR2(TR05)**
G3VM-61LR	**G3VM-61UR**
G3VM-61LR(TR05)	**G3VM-61UR(TR05)**
G3VM-81HR	**G3VM-101HR2**
G3VM-81HR(TR)	**G3VM-101HR2(TR)**
G3VM-81LR	**G3VM-81UR**
G3VM-81LR(TR05)	**G3VM-81UR(TR05)**

[Final order entry date]

The end of March, 2027

[Date of The Last Shipping]

The end of June, 2027

[Caution on recommended replacement]

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

[Difference from discontinued product]

Product discontinuation	Recommended replacement Model	Body Color	Dimen¬sions	Mounting Dimensions	Charac-teristics / Operation ratings	Wire connection/ Operation methods
G3VM-101HR	G3VM-101HR2	**	**	**	*	**
G3VM-101HR(TR)	G3VM-101HR2(TR)	**	**	**	*	**
G3VM-101HR1	G3VM-101HR2	**	**	**	*	**
G3VM-101HR1(TR05)	G3VM-101HR2(TR05)	**	**	**	*	**
G3VM-101LR	G3VM-101UR	--	--	--	*	**
G3VM-101LR(TR05)	G3VM-101UR(TR05)	--	--	--	*	**
G3VM-21HR	G3VM-31HR1	**	**	**	*	**
G3VM-21HR(TR)	G3VM-31HR1(TR05)	**	**	**	*	**
G3VM-21LR	G3VM-21UR10	--	--	--	*	**
G3VM-21LR(TR05)	G3VM-21UR10(TR05)	--	--	--	*	**
G3VM-21LR1	G3VM-21UR1	--	--	--	*	**
G3VM-21LR1(TR05)	G3VM-21UR1(TR05)	--	--	--	*	**
G3VM-21LR10	G3VM-21UR10	--	--	--	*	**
G3VM-21LR10(TR05)	G3VM-21UR10(TR05)	--	--	--	*	**
G3VM-21LR11	G3VM-21UR11	--	--	--	*	**
G3VM-21LR11(TR05)	G3VM-21UR11(TR05)	--	--	--	*	**
G3VM-31HR	G3VM-31HR1	**	**	**	*	**
G3VM-31HR(TR05)	G3VM-31HR1(TR05)	**	**	**	*	**
G3VM-41GR8	G3VM-61VR	--	*	**	*	**
G3VM-41GR8(TR)	G3VM-61VR(TR)	--	*	**	*	**
G3VM-41HR	G3VM-61HR2	**	**	**	*	**
G3VM-41HR(TR)	G3VM-61HR2(TR05)	**	**	**	*	**

G3VM-41LR10	G3VM-41UR10	--	--	--	*	**
G3VM-41LR10(TR05)	G3VM-41UR10(TR05)	--	--	--	*	**
G3VM-41LR11	G3VM-41UR11	--	--	--	*	**
G3VM-41LR11(TR05)	G3VM-41UR11(TR05)	--	--	--	*	**

Product discontinuation	Recommended replacement Model	Body Color	Dimen¬ sions	Mounting Dimensions	Charac- teristics / Operation ratings	Wire connection/ Operation methods
G3VM-41LR4	G3VM-41UR4	--	--	--	*	**
G3VM-41LR4(TR05)	G3VM-41UR4(TR05)	--	--	--	*	**
G3VM-41LR5	G3VM-41UR12	--	--	--	*	**
G3VM-41LR5(TR05)	G3VM-41UR12(TR05)	--	--	--	*	**
G3VM-41LR6	G3VM-41UR12	--	--	--	*	**
G3VM-41LR6(TR05)	G3VM-41UR12(TR05)	--	--	--	*	**
G3VM-61HR	G3VM-61HR2	**	**	**	*	**
G3VM-61HR(TR)	G3VM-61HR2(TR05)	**	**	**	*	**
G3VM-61HR1	G3VM-61HR2	**	**	**	*	**
G3VM-61HR1(TR05)	G3VM-61HR2(TR05)	**	**	**	*	**
G3VM-61LR	G3VM-61UR	--	--	--	*	**
G3VM-61LR(TR05)	G3VM-61UR(TR05)	--	--	--	*	**
G3VM-81HR	G3VM-101HR2	**	**	**	*	**
G3VM-81HR(TR)	G3VM-101HR2(TR)	**	**	**	*	**
G3VM-81LR	G3VM-81UR	--	--	--	*	**
G3VM-81LR(TR05)	G3VM-81UR(TR05)	--	--	--	*	**

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

[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
G3VM-101HR	G3VM-101HR2
G3VM-101HR(TR)	G3VM-101HR2(TR)
G3VM-101HR1	G3VM-101HR2
G3VM-101HR1(TR05)	G3VM-101HR2(TR05)
G3VM-101LR	G3VM-101UR
G3VM-101LR(TR05)	G3VM-101UR(TR05)
G3VM-21HR	G3VM-31HR1
G3VM-21HR(TR)	G3VM-31HR1(TR05)
G3VM-21LR	G3VM-21UR10
G3VM-21LR(TR05)	G3VM-21UR10(TR05)
G3VM-21LR1	G3VM-21UR1
G3VM-21LR1(TR05)	G3VM-21UR1(TR05)
G3VM-21LR10	G3VM-21UR10
G3VM-21LR10(TR05)	G3VM-21UR10(TR05)
G3VM-21LR11	G3VM-21UR11
G3VM-21LR11(TR05)	G3VM-21UR11(TR05)
G3VM-31HR	G3VM-31HR1
G3VM-31HR(TR05)	G3VM-31HR1(TR05)

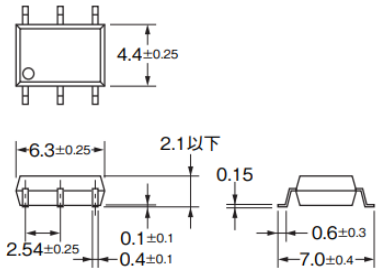
Product discontinuation	Recommended replacement
G3VM-41GR8	G3VM-61VR
G3VM-41GR8(TR)	G3VM-61VR(TR)
G3VM-41HR	G3VM-61HR2
G3VM-41HR(TR)	G3VM-61HR2(TR05)
G3VM-41LR10	G3VM-41UR10
G3VM-41LR10(TR05)	G3VM-41UR10(TR05)
G3VM-41LR11	G3VM-41UR11
G3VM-41LR11(TR05)	G3VM-41UR11(TR05)
G3VM-41LR4	G3VM-41UR4
G3VM-41LR4(TR05)	G3VM-41UR4(TR05)
G3VM-41LR5	G3VM-41UR12
G3VM-41LR5(TR05)	G3VM-41UR12(TR05)
G3VM-41LR6	G3VM-41UR12
G3VM-41LR6(TR05)	G3VM-41UR12(TR05)
G3VM-61HR	G3VM-61HR2
G3VM-61HR(TR)	G3VM-61HR2(TR05)
G3VM-61HR1	G3VM-61HR2
G3VM-61HR1(TR05)	G3VM-61HR2(TR05)
G3VM-61LR	G3VM-61UR
G3VM-61LR(TR05)	G3VM-61UR(TR05)
G3VM-81HR	G3VM-101HR2
G3VM-81HR(TR)	G3VM-101HR2(TR)
G3VM-81LR	G3VM-81UR
G3VM-81LR(TR05)	G3VM-81UR(TR05)

[Body color]

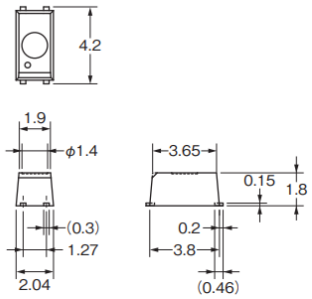
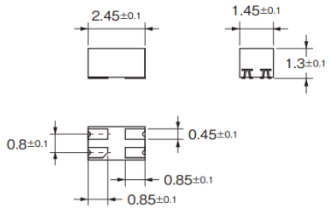
Product discontinuation	Recommendable replacement
G3VM-101HR G3VM-101HR(TR) G3VM-101HR1 G3VM-101HR1(TR05) G3VM-21HR G3VM-21HR(TR) G3VM-31HR G3VM-31HR(TR05) G3VM-41HR G3VM-41HR(TR) G3VM-61HR G3VM-61HR(TR) G3VM-61HR1 G3VM-61HR1(TR05) G3VM-81HR G3VM-81HR(TR)	G3VM-101HR2 G3VM-101HR2(TR) G3VM-101HR2 G3VM-101HR2(TR05) G3VM-31HR1 G3VM-31HR1(TR05) G3VM-31HR1 G3VM-31HR1(TR05) G3VM-61HR2 G3VM-61HR2(TR05) G3VM-61HR2 G3VM-61HR2(TR05) G3VM-61HR2 G3VM-61HR2(TR05) G3VM-101HR2 G3VM-101HR2(TR)
White	White

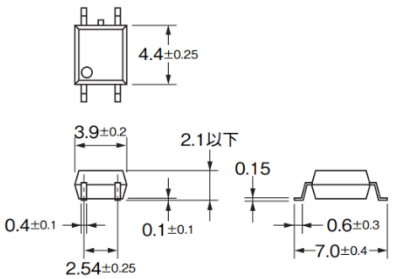
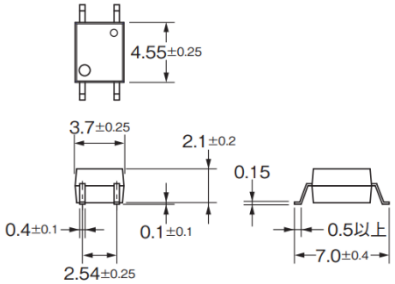
Product discontinuation	Recommendable replacement
G3VM-101LR G3VM-101LR(TR05) G3VM-21LR G3VM-21LR(TR05) G3VM-21LR1 G3VM-21LR1(TR05) G3VM-21LR10 G3VM-21LR10(TR05) G3VM-21LR11 G3VM-21LR11(TR05) G3VM-41GR8 G3VM-41GR8(TR) G3VM-41LR10 G3VM-41LR10(TR05) G3VM-41LR11 G3VM-41LR11(TR05) G3VM-41LR4 G3VM-41LR4(TR05) G3VM-41LR5 G3VM-41LR5(TR05) G3VM-41LR6 G3VM-41LR6(TR05) G3VM-61LR G3VM-61LR(TR05) G3VM-81LR G3VM-81LR(TR05)	G3VM-101UR G3VM-101UR(TR05) G3VM-21UR10 G3VM-21UR10(TR05) G3VM-21UR1 G3VM-21UR1(TR05) G3VM-21UR10 G3VM-21UR10(TR05) G3VM-21UR11 G3VM-21UR11(TR05) G3VM-61VR G3VM-61VR(TR) G3VM-41UR10 G3VM-41UR10(TR05) G3VM-41UR11 G3VM-41UR11(TR05) G3VM-41UR4 G3VM-41UR4(TR05) G3VM-41UR12 G3VM-41UR12(TR05) G3VM-41UR12 G3VM-41UR12(TR05) G3VM-61UR G3VM-61UR(TR05) G3VM-81UR G3VM-81UR(TR05)
White	Black

[Dimensions]

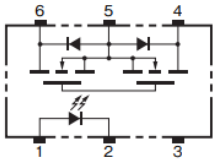
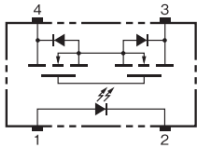
Product discontinuation	Recommendable replacement
G3VM-101HR G3VM-101HR(TR) G3VM-101HR1 G3VM-101HR1(TR05) G3VM-21HR G3VM-21HR(TR) G3VM-31HR G3VM-31HR(TR05) G3VM-41HR G3VM-41HR(TR) G3VM-61HR G3VM-61HR(TR) G3VM-61HR1 G3VM-61HR1(TR05) G3VM-81HR G3VM-81HR(TR)	G3VM-101HR2 G3VM-101HR2(TR) G3VM-101HR2 G3VM-101HR2(TR05) G3VM-31HR1 G3VM-31HR1(TR05) G3VM-31HR1 G3VM-31HR1(TR05) G3VM-61HR2 G3VM-61HR2(TR05) G3VM-61HR2 G3VM-61HR2(TR05) G3VM-61HR2 G3VM-61HR2(TR05) G3VM-101HR2 G3VM-101HR2(TR)
	Same as left

[Dimensions]

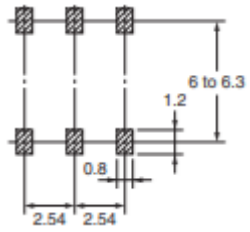
Product discontinuation	Recommendable replacement
G3VM-101LR G3VM-101LR(TR05) G3VM-21LR G3VM-21LR(TR05) G3VM-21LR1 G3VM-21LR1(TR05) G3VM-21LR10 G3VM-21LR10(TR05) G3VM-21LR11 G3VM-21LR11(TR05) G3VM-41LR10 G3VM-41LR10(TR05) G3VM-41LR11 G3VM-41LR11(TR05) G3VM-41LR4 G3VM-41LR4(TR05) G3VM-41LR5 G3VM-41LR5(TR05) G3VM-41LR6 G3VM-41LR6(TR05) G3VM-61LR G3VM-61LR(TR05) G3VM-81LR G3VM-81LR(TR05)	G3VM-101UR G3VM-101UR(TR05) G3VM-21UR10 G3VM-21UR10(TR05) G3VM-21UR1 G3VM-21UR1(TR05) G3VM-21UR10 G3VM-21UR10(TR05) G3VM-21UR11 G3VM-21UR11(TR05) G3VM-41UR10 G3VM-41UR10(TR05) G3VM-41UR11 G3VM-41UR11(TR05) G3VM-41UR4 G3VM-41UR4(TR05) G3VM-41UR12 G3VM-41UR12(TR05) G3VM-41UR12 G3VM-41UR12(TR05) G3VM-61UR G3VM-61UR(TR05) G3VM-81UR G3VM-81UR(TR05)
	

Product discontinuation	Recommendable replacement
G3VM-41GR8 G3VM-41GR8(TR)	G3VM-61VR G3VM-61VR(TR)
	

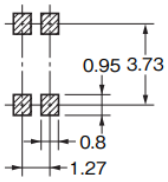
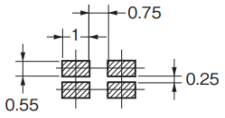
[Wire connection]

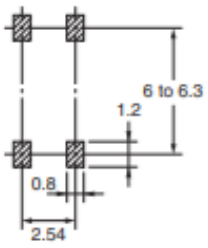
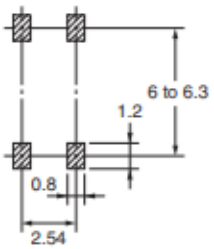
Product discontinuation	Recommendable replacement
G3VM-101HR G3VM-101HR(TR) G3VM-101HR1 G3VM-101HR1(TR05) G3VM-21HR G3VM-21HR(TR) G3VM-31HR G3VM-31HR(TR05) G3VM-41HR G3VM-41HR(TR) G3VM-61HR G3VM-61HR(TR) G3VM-61HR1 G3VM-61HR1(TR05) G3VM-81HR G3VM-81HR(TR)	G3VM-101HR2 G3VM-101HR2(TR) G3VM-101HR2 G3VM-101HR2(TR05) G3VM-31HR1 G3VM-31HR1(TR05) G3VM-31HR1 G3VM-31HR1(TR05) G3VM-61HR2 G3VM-61HR2(TR05) G3VM-61HR2 G3VM-61HR2(TR05) G3VM-61HR2 G3VM-61HR2(TR05) G3VM-101HR2 G3VM-101HR2(TR)
	Same as left
G3VM-101LR G3VM-101LR(TR05) G3VM-21LR G3VM-21LR(TR05) G3VM-21LR1 G3VM-21LR1(TR05) G3VM-21LR10 G3VM-21LR10(TR05) G3VM-21LR11 G3VM-21LR11(TR05) G3VM-41GR8 G3VM-41GR8(TR) G3VM-41LR10 G3VM-41LR10(TR05) G3VM-41LR11 G3VM-41LR11(TR05) G3VM-41LR4 G3VM-41LR4(TR05) G3VM-41LR5 G3VM-41LR5(TR05) G3VM-41LR6 G3VM-41LR6(TR05) G3VM-61LR G3VM-61LR(TR05) G3VM-81LR G3VM-81LR(TR05)	G3VM-101UR G3VM-101UR(TR05) G3VM-21UR10 G3VM-21UR10(TR05) G3VM-21UR1 G3VM-21UR1(TR05) G3VM-21UR10 G3VM-21UR10(TR05) G3VM-21UR11 G3VM-21UR11(TR05) G3VM-61VR G3VM-61VR(TR) G3VM-41UR10 G3VM-41UR10(TR05) G3VM-41UR11 G3VM-41UR11(TR05) G3VM-41UR4 G3VM-41UR4(TR05) G3VM-41UR12 G3VM-41UR12(TR05) G3VM-41UR12 G3VM-41UR12(TR05) G3VM-61UR G3VM-61UR(TR05) G3VM-81UR G3VM-81UR(TR05)
	Same as left

[Mounting dimensions]

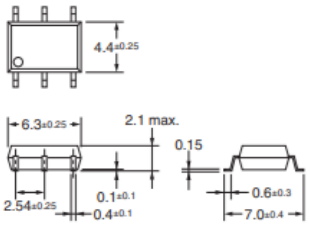
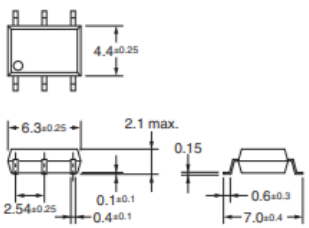
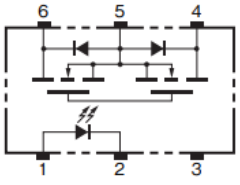
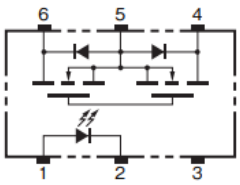
Product discontinuation	Recommendable replacement
G3VM-101HR **G3VM-101HR(TR)** **G3VM-101HR1** **G3VM-101HR1(TR05)** **G3VM-21HR** **G3VM-21HR(TR)** **G3VM-31HR** **G3VM-31HR(TR05)** **G3VM-41HR** **G3VM-41HR(TR)** **G3VM-61HR** **G3VM-61HR(TR)** **G3VM-61HR1** **G3VM-61HR1(TR05)** **G3VM-81HR** **G3VM-81HR(TR)**	**G3VM-101HR2** **G3VM-101HR2(TR)** **G3VM-101HR2** **G3VM-101HR2(TR05)** **G3VM-31HR1** **G3VM-31HR1(TR05)** **G3VM-31HR1** **G3VM-31HR1(TR05)** **G3VM-61HR2** **G3VM-61HR2(TR05)** **G3VM-61HR2** **G3VM-61HR2(TR05)** **G3VM-61HR2** **G3VM-61HR2(TR05)** **G3VM-101HR2** **G3VM-101HR2(TR)**
	Same as left

[Mounting dimensions]

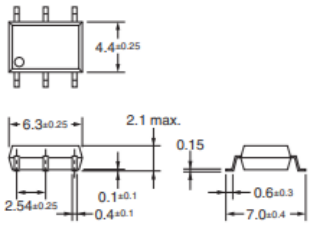
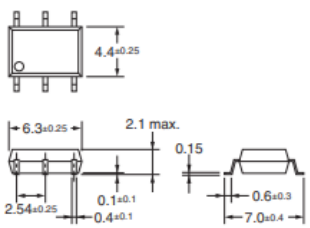
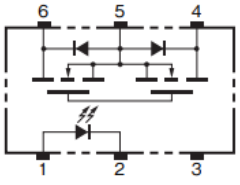
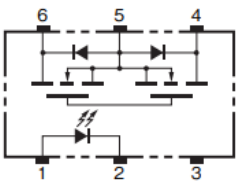
Product discontinuation	Recommendable replacement
G3VM-101LR **G3VM-101LR(TR05)** **G3VM-21LR** **G3VM-21LR(TR05)** **G3VM-21LR1** **G3VM-21LR1(TR05)** **G3VM-21LR10** **G3VM-21LR10(TR05)** **G3VM-21LR11** **G3VM-21LR11(TR05)** **G3VM-41LR10** **G3VM-41LR10(TR05)** **G3VM-41LR11** **G3VM-41LR11(TR05)** **G3VM-41LR4** **G3VM-41LR4(TR05)** **G3VM-41LR5** **G3VM-41LR5(TR05)** **G3VM-41LR6** **G3VM-41LR6(TR05)** **G3VM-61LR** **G3VM-61LR(TR05)** **G3VM-81LR** **G3VM-81LR(TR05)**	**G3VM-101UR** **G3VM-101UR(TR05)** **G3VM-21UR10** **G3VM-21UR10(TR05)** **G3VM-21UR1** **G3VM-21UR1(TR05)** **G3VM-21UR10** **G3VM-21UR10(TR05)** **G3VM-21UR11** **G3VM-21UR11(TR05)** **G3VM-41UR10** **G3VM-41UR10(TR05)** **G3VM-41UR11** **G3VM-41UR11(TR05)** **G3VM-41UR4** **G3VM-41UR4(TR05)** **G3VM-41UR12** **G3VM-41UR12(TR05)** **G3VM-41UR12** **G3VM-41UR12(TR05)** **G3VM-61UR** **G3VM-61UR(TR05)** **G3VM-81UR** **G3VM-81UR(TR05)**
	

Product discontinuation	Recommendable replacement
G3VM-41GR8 **G3VM-41GR8(TR)**	**G3VM-61VR** G3VM-61VR(TR)
	

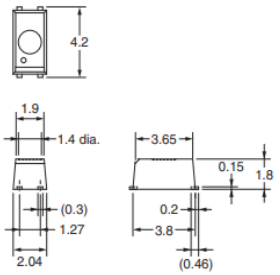
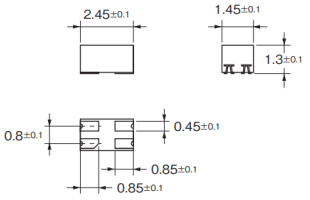
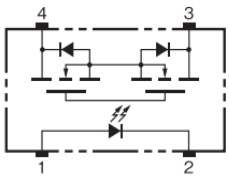
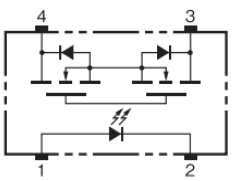
[Characteristics / Operation ratings]

Item					Product Discontinuation			Recommended Replacement		
					G3VM-101HR G3VM-101HR(TR)			G3VM-101HR2 G3VM-101HR2(TR)		
Type										
Package					SOP6			SOP6		
Contact form					1a(SPST-NO)			1a(SPST-NO)		
Terminal structure					Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		I_F	mA	30			30		
Input	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	100			100		
Output	Continuous load current	Connection A	I_O	A	1.4			3		
Output	Continuous load current	Connection B	I_O	A	1.4			3		
Output	Continuous load current	Connection C	I_O	A	2.8			6		
Dielectric strength between input and output			V_{I-O}	Vrms	1,500			1,500		
Operating Temperature			T_a	℃	−40	～	+ 85	−40	～	+ 110
Storage Temperature			T_{stg}	℃	−55	～	+ 125	−55	～	+ 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage		V_F	V	1.18	1.33	1.48	1.5	1.65	1.8
Input	Trigger LED Forward Current		I_{FT}	mA	−	0.4	3	−	0.35	3
Input	Release LED Forward Current		I_{FC}	mA	0.1	−	−	0.1	−	−
Output	Maximum resistance with output ON	Connection A	R_{ON}	Ω	−	0.1	0.2	−	0.05	0.065
Output	Maximum resistance with output ON	Connection B	R_{ON}	Ω	−	0.05	0.1	−	0.025	0.033
Output	Maximum resistance with output ON	Connection C	R_{ON}	Ω	−	0.025	−	−	0.013	0.016
Output	Current leakage when the relay is open		I_{LEAK}	nA	−	−	10	−	−	1000
Output	Capacitance between terminals		C_{OFF}	pF	−	1000	−	−	460	−
Capacitance between I/O terminals			C_{I-O}	pF	−	0.8	−	−	0.8	−
Insulation resistance between I/O terminals			R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time			t_{ON}	ms	−	1	5	−	0.45	2
Turn-OFF time			t_{OFF}	ms	−	0.15	1	−	0.1	0.5
Approved standards					UL			UL		
Dimensions										
Terminal arrangement /Internal connections					TOP VIEW 			TOP VIEW 		

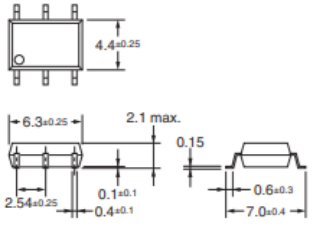
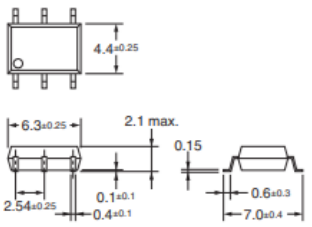
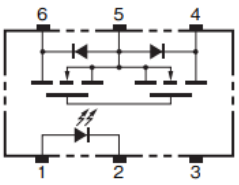
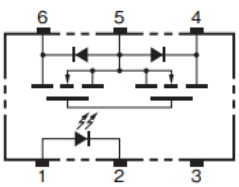
[Characteristics / Operation ratings]

Item					Product Discontinuation G3VM-101HR1 G3VM-101HR1(TR05)			Recommended Replacement G3VM-101HR2 G3VM-101HR2(TR05)		
Type										
Package					SOP6			SOP6		
Contact form					1a(SPST-NO)			1a(SPST-NO)		
Terminal structure					Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		I_F	mA	30			30		
Input	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	100			100		
Output	Continuous load current	Connection A	I_O	A	2.0			3		
Output	Continuous load current	Connection B	I_O	A	2.0			3		
Output	Continuous load current	Connection C	I_O	A	4.0			6		
Dielectric strength between input and output			V_{I-O}	Vrms	1,500			1,500		
Operating Temperature			T_a	℃	−40	～	+ 85	−40	～	+ 110
Storage Temperature			T_{stg}	℃	−55	～	+ 125	−55	～	+ 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage		V_F	V	1.18	1.33	1.48	1.5	1.65	1.8
Input	Trigger LED Forward Current		I_{FT}	mA	−	0.4	3	−	0.35	3
Input	Release LED Forward Current		I_{FC}	mA	0.1	−	−	0.1	−	−
Output	Maximum resistance with output ON	Connection A	R_{ON}	Ω	−	0.045	0.07	−	0.05	0.065
Output	Maximum resistance with output ON	Connection B	R_{ON}	Ω	−	0.022	0.035	−	0.025	0.033
Output	Maximum resistance with output ON	Connection C	R_{ON}	Ω	−	0.011	0.018	−	0.013	0.016
Output	Current leakage when the relay is open		I_{LEAK}	nA	−	−	1000	−	−	1000
Output	Capacitance between terminals		C_{OFF}	pF	−	500	−	−	460	−
Capacitance between I/O terminals			C_{I-O}	pF	−	0.8	−	−	0.8	−
Insulation resistance between I/O terminals			R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time			t_{ON}	ms	−	1.1	5	−	0.45	2
Turn-OFF time			t_{OFF}	ms	−	0.1	1	−	0.1	0.5
Approved standards					UL			UL		
Dimensions										
Terminal arrangement /Internal connections					TOP VIEW 			TOP VIEW 		

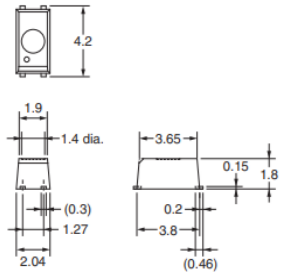
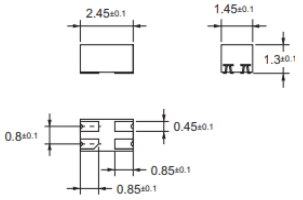
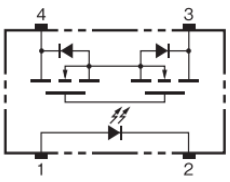
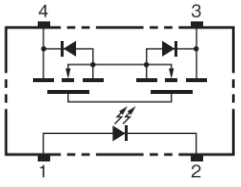
[Characteristics / Operation ratings]

Item				Product Discontinuation			Recommended Replacement		
				G3VM-101LR G3VM-101LR(TR05)			G3VM-101UR G3VM-101UR(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	50			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	100			100		
Output	Continuous load current	I_O	mA	80			100		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 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	1.22	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	−	1	5	−	−	3
Input	Release LED Forward Current	I_{FC}	mA	0.2	−	−	0.1	−	−
Output	Maximum resistance with output ON	R_{ON}	Ω	−	8	14	−	8	14
Output	Current leakage when the relay is open	I_{LEAK}	nA	−	−	0.2	−	−	0.2
Output	Capacitance between terminals	C_{OFF}	pF	−	6	8	−	6	8
Capacitance between I/O terminals		C_{I-O}	pF	−	0.6	−	−	1	−
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time		t_{ON}	ms	−	0.1	0.3	−	−	0.3
Turn-OFF time		t_{OFF}	ms	−	0.1	0.3	−	−	0.3
Approved standards				UL			−		
Dimensions									
Terminal arrangement /Internal connections				TOP VIEW 			TOP VIEW 		

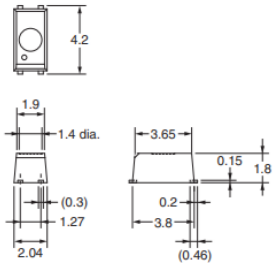
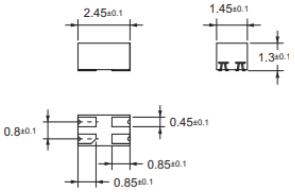
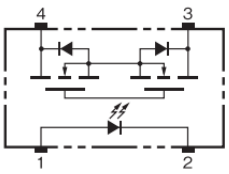
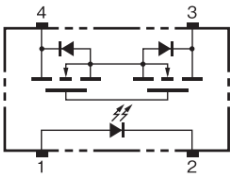
[Characteristics / Operation ratings]

Item					Product Discontinuation			Recommended Replacement		
					G3VM-21HR G3VM-21HR(TR)			G3VM-31HR1 G3VM-31HR1(TR05)		
Type										
Package					SOP6			SOP6		
Contact form					1a(SPST-NO)			1a(SPST-NO)		
Terminal structure					Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		I_F	mA	30			30		
Input	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	20			30		
Output	Continuous load current	Connection A	I_O	A	2.5			4.5		
Output	Continuous load current	Connection B	I_O	A	2.5			4.5		
Output	Continuous load current	Connection C	I_O	A	5.0			9		
Dielectric strength between input and output			V_{I-O}	Vrms	1,500			1,500		
Operating Temperature			T_a	℃	−40	～	+ 85	−40	～	+ 110
Storage Temperature			T_{stg}	℃	−55	～	+ 125	−55	～	+ 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage		V_F	V	1.18	1.33	1.48	1.5	1.65	1.8
Input	Trigger LED Forward Current		I_{FT}	mA	–	–	3	–	0.3	3
Input	Release LED Forward Current		I_{FC}	mA	0.1	–	–	0.1	–	–
Output	Maximum resistance with output ON	Connection A	R_{ON}	Ω	–	0.02	0.05	–	0.022	0.03
Output	Maximum resistance with output ON	Connection B	R_{ON}	Ω	–	0.01	0.025	–	0.011	0.015
Output	Maximum resistance with output ON	Connection C	R_{ON}	Ω	–	0.005	–	–	0.006	0.008
Output	Current leakage when the relay is open		I_{LEAK}	nA	–	–	10	–	–	1000
Output	Capacitance between terminals		C_{OFF}	pF	–	1000	–	–	1200	–
Capacitance between I/O terminals			C_{I-O}	pF	–	0.8	–	–	0.8	–
Insulation resistance between I/O terminals			R_{I-O}	MΩ	1000	1.00E+08	–	1000	1.00E+08	–
Turn-ON time			t_{ON}	ms	–	1.5	5	–	0.6	2
Turn-OFF time			t_{OFF}	ms	–	0.1	1	–	0.15	0.5
Approved standards					UL			UL		
Dimensions										
Terminal arrangement /Internal connections					TOP VIEW 			TOP VIEW 		

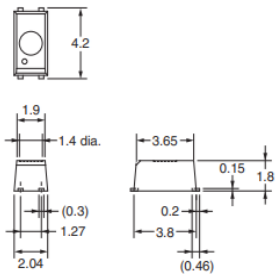
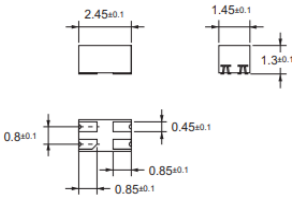
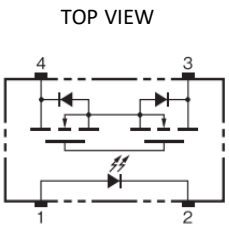
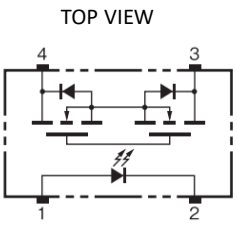
[Characteristics / Operation ratings]

Item				Product Discontinuation			Recommended Replacement		
				G3VM-21LR G3VM-21LR(TR05)			G3VM-21UR10 G3VM-21UR10(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	50			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	20			20		
Output	Continuous load current	I_O	mA	160			200		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 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	1.22	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	−	−	4	−	0.9	3
Input	Release LED Forward Current	I_{FC}	mA	0.2	−	−	0.1	−	−
Output	Maximum resistance with output ON	R_{ON}	Ω	−	5	8	−	3	5
Output	Current leakage when the relay is open	I_{LEAK}	nA	−	−	1	−	−	1
Output	Capacitance between terminals	C_{OFF}	pF	−	1	2.5	−	0.8	1.1
Capacitance between I/O terminals		C_{I-O}	pF	−	0.8	−	−	1	−
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time		t_{ON}	ms	−	0.06	0.5	−	0.05	0.2
Turn-OFF time		t_{OFF}	ms	−	0.12	0.5	−	0.02	0.2
Approved standards				UL			−		
Dimensions									
Terminal arrangement /Internal connections				TOP VIEW 			TOP VIEW 		

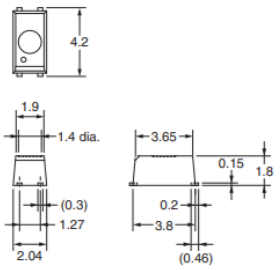
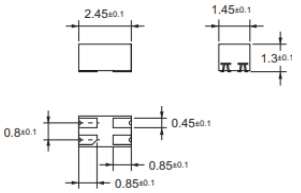
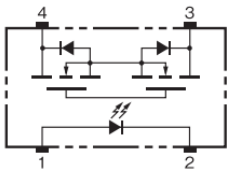
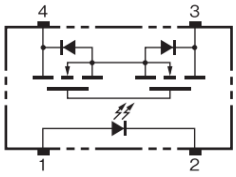
[Characteristics / Operation ratings]

Item				Product Discontinuation			Recommended Replacement		
				G3VM-21LR1 G3VM-21LR1(TR05)			G3VM-21UR1 G3VM-21UR1(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	50			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	20			20		
Output	Continuous load current	I_O	mA	450			450		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 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	1.22	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	−	−	4	−	0.6	3
Input	Release LED Forward Current	I_{FC}	mA	0.2	−	−	0.1	−	−
Output	Maximum resistance with output ON	R_{ON}	Ω	−	0.8	1.2	−	0.8	1.2
Output	Current leakage when the relay is open	I_{LEAK}	nA	−	−	1	−	−	1
Output	Capacitance between terminals	C_{OFF}	pF	−	5	12	−	5	12
Capacitance between I/O terminals		C_{I-O}	pF	−	0.8	−	−	1	−
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time		t_{ON}	ms	−	0.2	0.5	−	0.17	0.4
Turn-OFF time		t_{OFF}	ms	−	0.2	0.5	−	0.03	0.4
Approved standards				UL			−		
Dimensions									
Terminal arrangement /Internal connections				TOP VIEW 			TOP VIEW 		

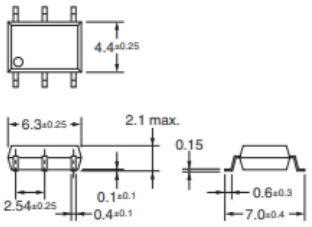
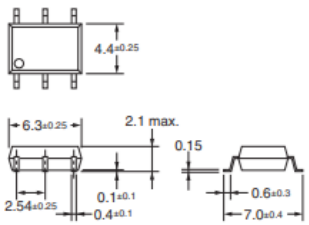
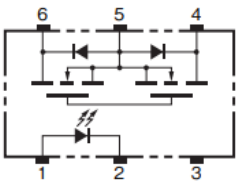
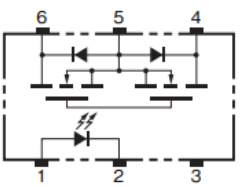
[Characteristics / Operation ratings]

Item				Product Discontinuation G3VM-21LR10 G3VM-21LR10(TR05)			Recommended Replacement G3VM-21UR10 G3VM-21UR10(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	30			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	20			20		
Output	Continuous load current	I_O	mA	200			200		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 125
Electrical Characteristics		Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage	V_F	V	1.15	1.35	1.45	1.1	1.22	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	−	−	3	−	0.9	3
Input	Release LED Forward Current	I_{FC}	mA	0.1	−	−	0.1	−	−
Output	Maximum resistance with output ON	R_{ON}	Ω	−	3	5	−	3	5
Output	Current leakage when the relay is open	I_{LEAK}	nA	−	0.01	0.2	−	−	1
Output	Capacitance between terminals	C_{OFF}	pF	−	0.8	1.1	−	0.8	1.1
Capacitance between I/O terminals		C_{I-O}	pF	−	0.3	−	−	1	−
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time		t_{ON}	ms	−	−	0.2	−	0.05	0.2
Turn-OFF time		t_{OFF}	ms	−	−	0.2	−	0.02	0.2
Approved standards				UL			−		
Dimensions									
Terminal arrangement /Internal connections									

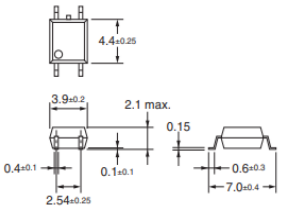
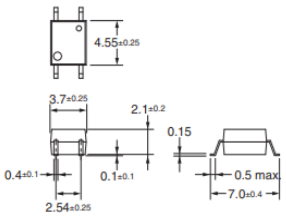
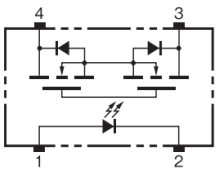
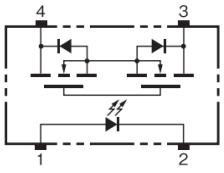
[Characteristics / Operation ratings]

Item				Product Discontinuation G3VM-21LR11 G3VM-21LR11(TR05)			Recommended Replacement G3VM-21UR11 G3VM-21UR11(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	50			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	20			20		
Output	Continuous load current	I_O	mA	900			1,000		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 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	1.22	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	–	–	3	–	–	3
Input	Release LED Forward Current	I_{FC}	mA	0.1	–	–	0.1	–	–
Output	Maximum resistance with output ON	R_{ON}	Ω	–	0.18	0.22	–	0.18	0.22
Output	Current leakage when the relay is open	I_{LEAK}	nA	–	–	1	–	–	1
Output	Capacitance between terminals	C_{OFF}	pF	–	40	–	–	40	–
Capacitance between I/O terminals		C_{I-O}	pF	–	0.3	–	–	1	–
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	–	1000	1.00E+08	–
Turn-ON time		t_{ON}	ms	–	0.3	2	–	–	2
Turn-OFF time		t_{OFF}	ms	–	0.2	1	–	–	1
Approved standards				UL			–		
Dimensions									
Terminal arrangement /Internal connections				TOP VIEW 			TOP VIEW 		

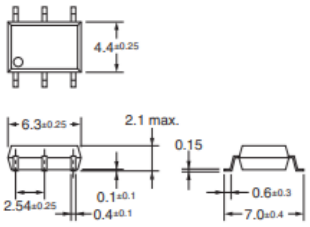
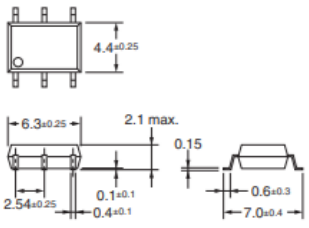
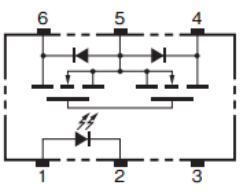
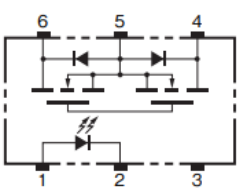
[Characteristics / Operation ratings]

Item					Product Discontinuation G3VM-31HR G3VM-31HR(TR05)			Recommended Replacement G3VM-31HR1 G3VM-31HR1(TR05)		
Type										
Package					SOP6			SOP6		
Contact form					1a(SPST-NO)			1a(SPST-NO)		
Terminal structure					Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		I_F	mA	30			30		
Input	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	30			30		
Output	Continuous load current	Connection A	I_O	A	4.0			4.5		
Output	Continuous load current	Connection B	I_O	A	4.0			4.5		
Output	Continuous load current	Connection C	I_O	A	8.0			9		
Dielectric strength between input and output			V_{I-O}	Vrms	1,500			1,500		
Operating Temperature			T_a	℃	−40	～	+ 85	−40	～	+ 110
Storage Temperature			T_{stg}	℃	−55	～	+ 125	−55	～	+ 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage		V_F	V	1.18	1.33	1.48	1.5	1.65	1.8
Input	Trigger LED Forward Current		I_{FT}	mA	−	0.3	3	−	0.3	3
Input	Release LED Forward Current		I_{FC}	mA	0.1	−	−	0.1	−	−
Output	Maximum resistance with output ON	Connection A	R_{ON}	Ω	−	0.02	0.04	−	0.022	0.03
Output	Maximum resistance with output ON	Connection B	R_{ON}	Ω	−	0.008	0.02	−	0.011	0.015
Output	Maximum resistance with output ON	Connection C	R_{ON}	Ω	−	0.004	0.01	−	0.006	0.008
Output	Current leakage when the relay is open		I_{LEAK}	nA	−	−	1000	−	−	1000
Output	Capacitance between terminals		C_{OFF}	pF	−	1100	−	−	1200	−
Capacitance between I/O terminals			C_{I-O}	pF	−	0.8	−	−	0.8	−
Insulation resistance between I/O terminals			R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time			t_{ON}	ms	−	1.1	5	−	0.6	2
Turn-OFF time			t_{OFF}	ms	−	0.1	1	−	0.15	0.5
Approved standards					UL			UL		
Dimensions										
Terminal arrangement /Internal connections					TOP VIEW 			TOP VIEW 		

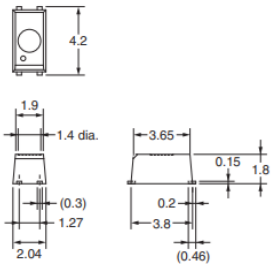
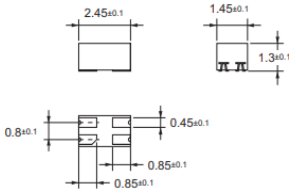
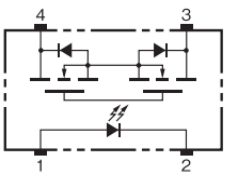
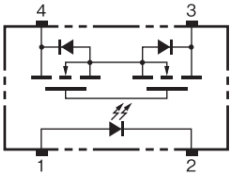
[Characteristics / Operation ratings]

Item				Product Discontinuation			Recommended Replacement		
				G3VM-41GR8 G3VM-41GR8(TR)			G3VM-61VR G3VM-61VR(TR)		
Type									
Package				SOP4			Special SOP4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	30			50		
Input	LED reverse voltage	V_R	V	5			6		
Output	Load Voltage(AC/DC)	V_{OFF}	V	40			60		
Output	Continuous load current	I_O	A	1			1.4		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			3,750		
Operating Temperature		T_a	℃	−40	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−55	～	+ 125	−40	～	+ 125
Electrical Characteristics		Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage	V_F	V	1.18	1.33	1.48	1.1	1.27	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	−	1	3	−	1	3
Input	Release LED Forward Current	I_{FC}	mA	0.1	−	−	0.1	−	−
Output	Maximum resistance with output ON	R_{ON}	mΩ	−	100	130	−	130	250
Output	Current leakage when the relay is open	I_{LEAK}	nA	−	−	1	−	2	1000
Output	Capacitance between terminals	C_{OFF}	pF	−	300	−	−	100	−
Capacitance between I/O terminals		C_{I-O}	pF	−	0.8	−	−	0.8	−
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time		t_{ON}	ms	−	1.2	3	−	2	3
Turn-OFF time		t_{OFF}	ms	−	0.2	0.5	−	0.1	1
Approved standards				UL			UL		
Dimensions									
Terminal arrangement /Internal connections				TOP VIEW 			TOP VIEW 		

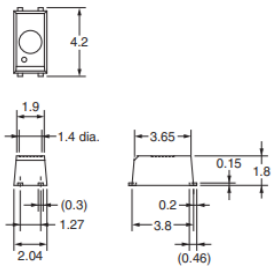
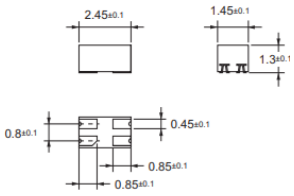
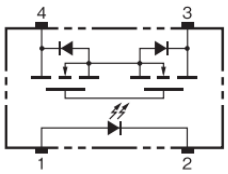
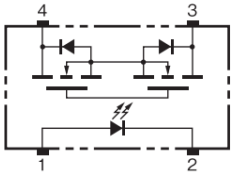
[Characteristics / Operation ratings]

Item					Product Discontinuation			Recommended Replacement		
					G3VM-41HR G3VM-41HR(TR)			G3VM-61HR2 G3VM-61HR2(TR05)		
Type										
Package					SOP6			SOP6		
Contact form					1a(SPST-NO)			1a(SPST-NO)		
Terminal structure					Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		I_F	mA	30			30		
Input	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	40			60		
Output	Continuous load current	Connection A	I_O	A	2.5			4.0		
Output	Continuous load current	Connection B	I_O	A	2.5			4.0		
Output	Continuous load current	Connection C	I_O	A	5.0			8		
Dielectric strength between input and output			V_{I-O}	Vrms	1,500			1,500		
Operating Temperature			T_a	℃	−40	～	+ 85	−40	～	+ 110
Storage Temperature			T_{stg}	℃	−55	～	+ 125	−55	～	+ 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage		V_F	V	1.18	1.33	1.48	1.5	1.65	1.8
Input	Trigger LED Forward Current		I_{FT}	mA	–	0.4	3	–	0.3	3
Input	Release LED Forward Current		I_{FC}	mA	0.1	–	–	0.1	–	–
Output	Maximum resistance with output ON	Connection A	R_{ON}	Ω	–	0.03	0.06	–	0.028	0.04
Output	Maximum resistance with output ON	Connection B	R_{ON}	Ω	–	0.015	0.03	–	0.014	0.02
Output	Maximum resistance with output ON	Connection C	R_{ON}	Ω	–	0.008	–	–	0.007	0.01
Output	Current leakage when the relay is open		I_{LEAK}	nA	–	–	10	–	–	1000
Output	Capacitance between terminals		C_{OFF}	pF	–	1000	–	–	750	–
Capacitance between I/O terminals			C_{I-O}	pF	–	0.8	–	–	0.8	–
Insulation resistance between I/O terminals			R_{I-O}	MΩ	1000	1.00E+08	–	1000	1.00E+08	–
Turn-ON time			t_{ON}	ms	–	1	5	–	0.6	2
Turn-OFF time			t_{OFF}	ms	–	0.15	1	–	0.15	0.5
Approved standards					UL			UL		
Dimensions										
Terminal arrangement /Internal connections					TOP VIEW 			TOP VIEW 		

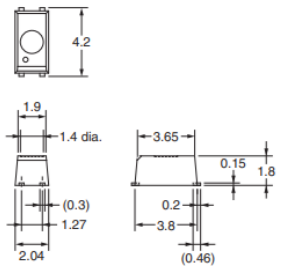
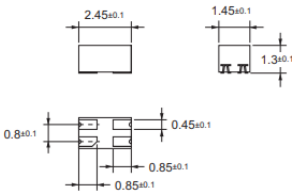
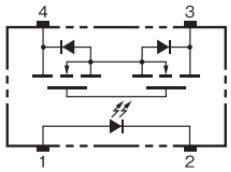
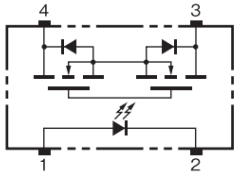
[Characteristics / Operation ratings]

Item				Product Discontinuation			Recommended Replacement		
				G3VM-41LR10 G3VM-41LR10(TR05)			G3VM-41UR10 G3VM-41UR10(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	30			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	40			40		
Output	Continuous load current	I_O	A	0.12			0.12		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 125
Electrical Characteristics		Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage	V_F	V	1.15	1.35	1.45	1.1	1.27	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	−	−	3	−	−	3
Input	Release LED Forward Current	I_{FC}	mA	0.1	−	−	0.1	−	−
Output	Maximum resistance with output ON	R_{ON}	Ω	−	12	14	−	12	14
Output	Current leakage when the relay is open	I_{LEAK}	nA	−	0.01	0.2	−	−	1
Output	Capacitance between terminals	C_{OFF}	pF	−	0.45	0.8	−	0.45	0.8
Capacitance between I/O terminals		C_{I-O}	pF	−	0.3	−	−	1	−
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time		t_{ON}	ms	−	−	0.2	−	−	0.2
Turn-OFF time		t_{OFF}	ms	−	−	0.3	−	−	0.3
Approved standards				UL			−		
Dimensions									
Terminal arrangement /Internal connections				TOP VIEW 			TOP VIEW 		

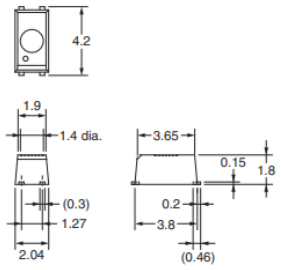
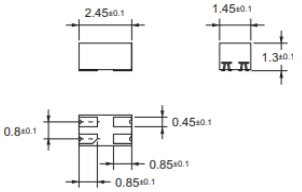
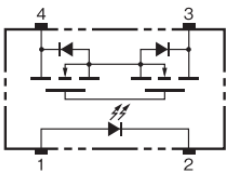
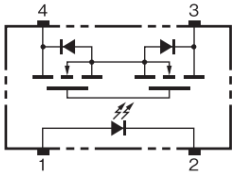
[Characteristics / Operation ratings]

Item				Product Discontinuation			Recommended Replacement		
				G3VM-41LR11 G3VM-41LR11(TR05)			G3VM-41UR11 G3VM-41UR11(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	30			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	40			40		
Output	Continuous load current	I_O	A	0.14			0.14		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 125
Electrical Characteristics		Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage	V_F	V	1.15	1.3	1.45	1.1	1.27	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	−	−	3	−	0.7	3
Input	Release LED Forward Current	I_{FC}	mA	0.1	−	−	0.1	−	−
Output	Maximum resistance with output ON	R_{ON}	Ω	−	7	10	−	5	10
Output	Current leakage when the relay is open	I_{LEAK}	nA	−	0.01	0.2	−	−	1
Output	Capacitance between terminals	C_{OFF}	pF	−	0.7	1.3	−	0.7	1.3
Capacitance between I/O terminals		C_{I-O}	pF	−	0.3	−	−	1	−
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time		t_{ON}	ms	−	−	0.2	−	0.06	0.2
Turn-OFF time		t_{OFF}	ms	−	−	0.2	−	0.03	0.2
Approved standards				UL			−		
Dimensions									
Terminal arrangement /Internal connections				TOP VIEW 			TOP VIEW 		

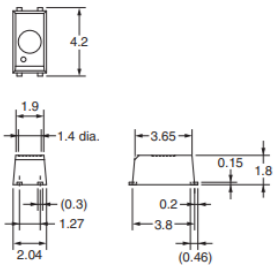
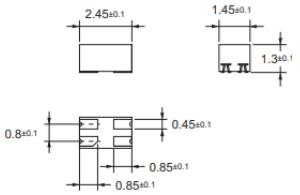
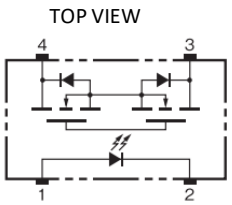
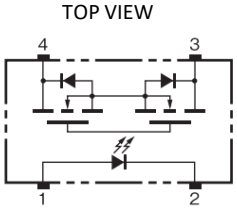
[Characteristics / Operation ratings]

Item				Product Discontinuation			Recommended Replacement		
				G3VM-41LR4 G3VM-41LR4(TR05)			G3VM-41UR4 G3VM-41UR4(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	50			30		
Input	LED reverse voltage	V_R	V	5			6		
Output	Load Voltage(AC/DC)	V_{OFF}	V	40			40		
Output	Continuous load current	I_O	mA	250			250		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 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
Input	Trigger LED Forward Current	I_{FT}	mA	–	–	4	–	0.8	3
Input	Release LED Forward Current	I_{FC}	mA	0.2	–	–	0.1	–	–
Output	Maximum resistance with output ON	R_{ON}	Ω	–	2	3	–	2	3
Output	Current leakage when the relay is open	I_{LEAK}	nA	–	–	1	–	–	1
Output	Capacitance between terminals	C_{OFF}	pF	–	5	7	–	5	7
Capacitance between I/O terminals		C_{I-O}	pF	–	0.8	–	–	1	–
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	–	1000	1.00E+08	–
Turn-ON time		t_{ON}	ms	–	0.12	0.5	–	0.08	0.3
Turn-OFF time		t_{OFF}	ms	–	0.14	0.5	–	0.04	0.3
Approved standards				UL			–		
Dimensions									
Terminal arrangement /Internal connections				TOP VIEW 			TOP VIEW 		

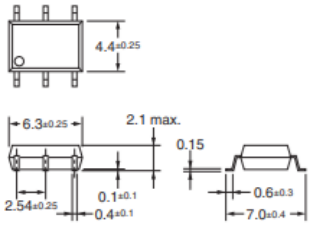
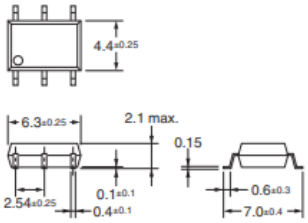
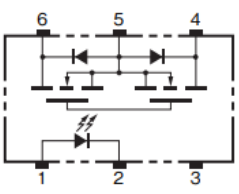
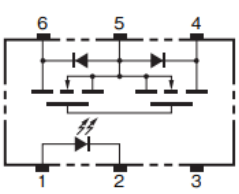
[Characteristics / Operation ratings]

Item				Product Discontinuation			Recommended Replacement		
				G3VM-41LR5 G3VM-41LR5(TR05)			G3VM-41UR12 G3VM-41UR12(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	50			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	40			40		
Output	Continuous load current	I_O	mA	300			100		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 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
Input	Trigger LED Forward Current	I_{FT}	mA	–	–	4	–	0.9	3
Input	Release LED Forward Current	I_{FC}	mA	0.2	–	–	0.1	–	–
Output	Maximum resistance with output ON	R_{ON}	Ω	–	1	1.5	–	15	20
Output	Current leakage when the relay is open	I_{LEAK}	nA	–	–	1	–	–	1
Output	Capacitance between terminals	C_{OFF}	pF	–	10	14	–	0.3	0.6
Capacitance between I/O terminals		C_{I-O}	pF	–	0.8	–	–	1	–
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	–	1000	1.00E+08	–
Turn-ON time		t_{ON}	ms	–	0.2	0.5	–	0.05	0.2
Turn-OFF time		t_{OFF}	ms	–	0.2	0.5	–	0.03	0.2
Approved standards				UL			–		
Dimensions									
Terminal arrangement /Internal connections				TOP VIEW 			TOP VIEW 		

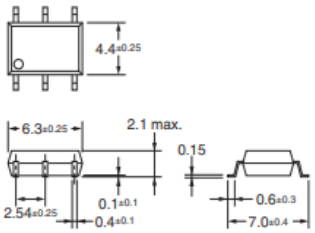
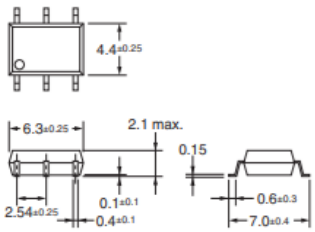
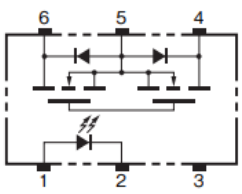
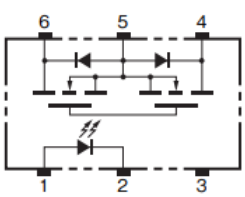
[Characteristics / Operation ratings]

Item				Product Discontinuation			Recommended Replacement		
				G3VM-41LR6 G3VM-41LR6(TR05)			G3VM-41UR12 G3VM-41UR12(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	50			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	40			40		
Output	Continuous load current	I_O	mA	120			100		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 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
Input	Trigger LED Forward Current	I_{FT}	mA	–	–	4	–	0.9	3
Input	Release LED Forward Current	I_{FC}	mA	0.2	–	–	0.1	–	–
Output	Maximum resistance with output ON	R_{ON}	Ω	–	10	15	–	15	20
Output	Current leakage when the relay is open	I_{LEAK}	nA	–	–	1	–	–	1
Output	Capacitance between terminals	C_{OFF}	pF	–	1	2	–	0.3	0.6
Capacitance between I/O terminals		C_{I-O}	pF	–	0.8	–	–	1	–
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	–	1000	1.00E+08	–
Turn-ON time		t_{ON}	ms	–	0.05	0.5	–	0.05	0.2
Turn-OFF time		t_{OFF}	ms	–	0.12	0.5	–	0.03	0.2
Approved standards				UL			–		
Dimensions									
Terminal arrangement /Internal connections									

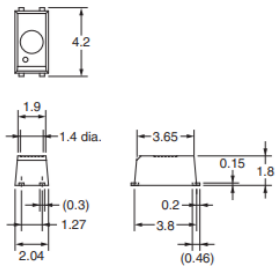
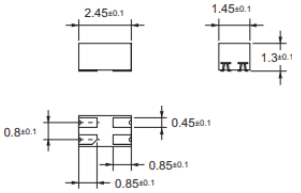
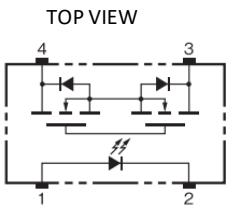
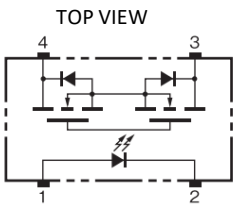
[Characteristics / Operation ratings]

Item					Product Discontinuation			Recommended Replacement		
					G3VM-61HR G3VM-61HR(TR)			G3VM-61HR2 G3VM-61HR2(TR05)		
Type										
Package					SOP6			SOP6		
Contact form					1a(SPST-NO)			1a(SPST-NO)		
Terminal structure					Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		I_F	mA	30			30		
Input	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	60			60		
Output	Continuous load current	Connection A	I_O	A	2.3			4.0		
Output	Continuous load current	Connection B	I_O	A	2.3			4.0		
Output	Continuous load current	Connection C	I_O	A	4.6			8		
Dielectric strength between input and output			V_{I-O}	Vrms	1,500			1,500		
Operating Temperature			T_a	℃	−40	～	+ 85	−40	～	+ 110
Storage Temperature			T_{stg}	℃	−55	～	+ 125	−55	～	+ 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage		V_F	V	1.18	1.33	1.48	1.5	1.65	1.8
Input	Trigger LED Forward Current		I_{FT}	mA	−	0.4	3	−	0.3	3
Input	Release LED Forward Current		I_{FC}	mA	0.1	−	−	0.1	−	−
Output	Maximum resistance with output ON	Connection A	R_{ON}	Ω	−	0.04	0.07	−	0.028	0.04
Output	Maximum resistance with output ON	Connection B	R_{ON}	Ω	−	0.02	0.04	−	0.014	0.02
Output	Maximum resistance with output ON	Connection C	R_{ON}	Ω	−	0.01	−	−	0.007	0.01
Output	Current leakage when the relay is open		I_{LEAK}	nA	−	−	10	−	−	1000
Output	Capacitance between terminals		C_{OFF}	pF	−	1000	−	−	750	−
Capacitance between I/O terminals			C_{I-O}	pF	−	0.8	−	−	0.8	−
Insulation resistance between I/O terminals			R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time			t_{ON}	ms	−	1	5	−	0.6	2
Turn-OFF time			t_{OFF}	ms	−	0.15	1	−	0.15	0.5
Approved standards					UL			UL		
Dimensions										
Terminal arrangement /Internal connections					TOP VIEW 			TOP VIEW 		

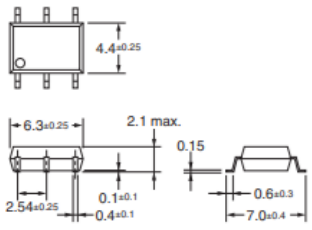
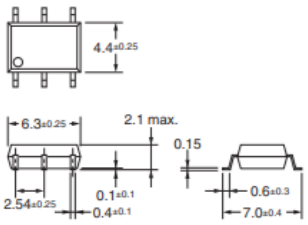
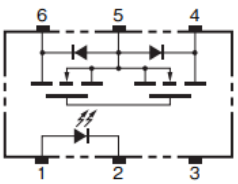
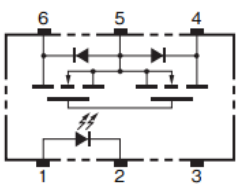
[Characteristics / Operation ratings]

Item					Product Discontinuation			Recommended Replacement		
					G3VM-61HR1 G3VM-61HR1(TR05)			G3VM-61HR2 G3VM-61HR2(TR05)		
Type										
Package					SOP6			SOP6		
Contact form					1a(SPST-NO)			1a(SPST-NO)		
Terminal structure					Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		I_F	mA	30			30		
Input	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	60			60		
Output	Continuous load current	Connection A	I_O	A	3.3			4		
Output	Continuous load current	Connection B	I_O	A	3.3			4		
Output	Continuous load current	Connection C	I_O	A	6.6			8		
Dielectric strength between input and output			V_{I-O}	Vrms	1,500			1,500		
Operating Temperature			T_a	℃	−40	～	+ 85	−40	～	+ 110
Storage Temperature			T_{stg}	℃	−55	～	+ 125	−55	～	+ 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage		V_F	V	1.18	1.33	1.48	1.5	1.65	1.8
Input	Trigger LED Forward Current		I_{FT}	mA	−	0.2	3	−	0.3	3
Input	Release LED Forward Current		I_{FC}	mA	0.1	−	−	0.1	−	−
Output	Maximum resistance with output ON	Connection A	R_{ON}	Ω	−	0.03	0.06	−	0.028	0.04
Output	Maximum resistance with output ON	Connection B	R_{ON}	Ω	−	0.015	−	−	0.014	0.02
Output	Maximum resistance with output ON	Connection C	R_{ON}	Ω	−	0.008	−	−	0.007	0.01
Output	Current leakage when the relay is open		I_{LEAK}	nA	−	−	20	−	−	1000
Output	Capacitance between terminals		C_{OFF}	pF	−	700	1500	−	750	−
Capacitance between I/O terminals			C_{I-O}	pF	−	0.8	−	−	0.8	−
Insulation resistance between I/O terminals			R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time			t_{ON}	ms	−	0.6	5	−	0.6	2
Turn-OFF time			t_{OFF}	ms	−	0.2	1	−	0.15	0.5
Approved standards					UL			UL		
Dimensions										
Terminal arrangement /Internal connections					TOP VIEW 			TOP VIEW 		

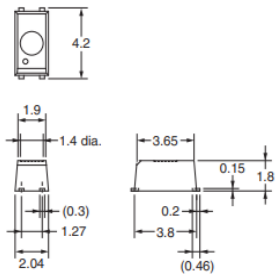
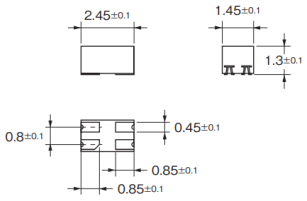
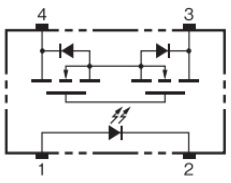
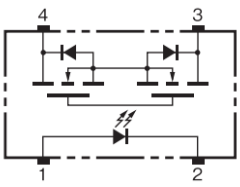
[Characteristics / Operation ratings]

Item				Product Discontinuation G3VM-61LR G3VM-61LR(TR05)			Recommended Replacement G3VM-61UR G3VM-61UR(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	50			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	60			60		
Output	Continuous load current	I_O	mA	400			400		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 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	1.22	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	–	2	5	–	–	3
Input	Release LED Forward Current	I_{FC}	mA	0.2	–	–	0.1	–	–
Output	Maximum resistance with output ON	R_{ON}	Ω	–	1	1.5	–	1	1.5
Output	Current leakage when the relay is open	I_{LEAK}	nA	–	–	1000	–	–	1
Output	Capacitance between terminals	C_{OFF}	pF	–	20	30	–	20	–
Capacitance between I/O terminals		C_{I-O}	pF	–	0.3	–	–	1	–
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	–	1000	1.00E+08	–
Turn-ON time		t_{ON}	ms	–	0.3	1	–	–	0.5
Turn-OFF time		t_{OFF}	ms	–	0.2	1	–	–	0.5
Approved standards				UL			–		
Dimensions									
Terminal arrangement /Internal connections									

[Characteristics / Operation ratings]

Item					Product Discontinuation G3VM-81HR G3VM-81HR(TR)			Recommended Replacement G3VM-101HR2 G3VM-101HR2(TR)		
Type										
Package					SOP6			SOP6		
Contact form					1a(SPST-NO)			1a(SPST-NO)		
Terminal structure					Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating			Symbol	Unit	Rating			Rating		
Input	LED forward current		I_F	mA	50			30		
Input	LED reverse voltage		V_R	V	5			6		
Output	Load Voltage(AC/DC)		V_{OFF}	V	80			100		
Output	Continuous load current	Connection A	I_O	A	1.25			3.0		
Output	Continuous load current	Connection B	I_O	A	1.25			3.0		
Output	Continuous load current	Connection C	I_O	A	2.5			6		
Dielectric strength between input and output			V_{I-O}	Vrms	1,500			1,500		
Operating Temperature			T_a	℃	−40	～	+ 85	−40	～	+ 110
Storage Temperature			T_{stg}	℃	−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	1.5	1.65	1.8
Input	Trigger LED Forward Current		I_{FT}	mA	−	2	5	−	0.35	3
Input	Release LED Forward Current		I_{FC}	mA	0.2	−	−	0.1	−	−
Output	Maximum resistance with output ON	Connection A	R_{ON}	Ω	−	0.11	0.15	−	0.05	0.065
Output	Maximum resistance with output ON	Connection B	R_{ON}	Ω	−	0.06	0.08	−	0.025	0.033
Output	Maximum resistance with output ON	Connection C	R_{ON}	Ω	−	0.03	0.04	−	0.013	0.016
Output	Current leakage when the relay is open		I_{LEAK}	nA	−	1.2	1.5	−	−	1000
Output	Capacitance between terminals		C_{OFF}	pF	−	460	1000	−	460	−
Capacitance between I/O terminals			C_{I-O}	pF	−	0.8	−	−	0.8	−
Insulation resistance between I/O terminals			R_{I-O}	MΩ	1000	1.00E+08	−	1000	1.00E+08	−
Turn-ON time			t_{ON}	ms	−	2	3	−	0.45	2
Turn-OFF time			t_{OFF}	ms	−	0.7	1	−	0.1	0.5
Approved standards					UL			UL		
Dimensions										
Terminal arrangement /Internal connections					TOP VIEW 			TOP VIEW 		

[Characteristics / Operation ratings]

Item				Product Discontinuation			Recommended Replacement		
				G3VM-81LR G3VM-81LR(TR05)			G3VM-81UR G3VM-81UR(TR05)		
Type									
Package				SSOP4			VSON4		
Contact form				1a(SPST-NO)			1a(SPST-NO)		
Terminal structure				Surface-mounting Terminals			Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	I_F	mA	50			30		
Input	LED reverse voltage	V_R	V	5			5		
Output	Load Voltage(AC/DC)	V_{OFF}	V	80			80		
Output	Continuous load current	I_O	mA	120			120		
Dielectric strength between input and output		V_{I-O}	Vrms	1,500			500		
Operating Temperature		T_a	℃	−20	～	+ 85	−40	～	+ 110
Storage Temperature		T_{stg}	℃	−40	～	+ 125	−40	～	+ 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	1.22	1.4
Input	Trigger LED Forward Current	I_{FT}	mA	−	2	5	−	−	3
Input	Release LED Forward Current	I_{FC}	mA	0.1	−	−	0.1	−	−
Output	Maximum resistance with output ON	R_{ON}	Ω	−	7.5	12	−	7	12
Output	Current leakage when the relay is open	I_{LEAK}	nA	−	−	0.2	−	−	0.02
Output	Capacitance between terminals	C_{OFF}	pF	−	5	7	−	5	7
Capacitance between I/O terminals		C_{I-O}	pF	−	0.8	−	−	1	−
Insulation resistance between I/O terminals		R_{I-O}	MΩ	1000	1.00E+08	−	−	1.00E+08	−
Turn-ON time		t_{ON}	ms	−	0.1	0.25	−	−	0.5
Turn-OFF time		t_{OFF}	ms	−	0.15	0.2	−	−	0.2
Approved standards				UL			−		
Dimensions									
Terminal arrangement /Internal connections				TOP VIEW 			TOP VIEW 		

[Operation methods]
There is no change in the operation method.

Specifications and prices 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.