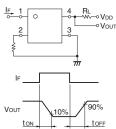
■Electrical Characteristics (Ta = 25°C)

	Item	Symbol		G3VM-81G1	Unit	Measurement conditions
	LED forward voltage	VF	Minimum	1.0	V	IF=10 mA
			Typical	1.15		
			Maximum	1.3		
t	Reverse current	IR	Maximum	10	μA	VR=5 V
Input	Capacitance between terminals	Ст	Typical	15	pF	V=0, f=1 MHz
	Trigger LED forward current	IFT	Typical	1	mA	Io=350 mA
			Maximum	4		
	Release LED forward current	IFC	Minimum	0.2	mA	IOFF=10 μA
	Maximum resistance with output ON	Ron	Typical	1	Ω	IF=5 mA, lo=350 mA
			Maximum	1.2		
put	Current leakage when the relay is	ILEAK	Typical	0.2	nA	Voff=30 V, Ta=50°C
Output	open	ILEAK	Maximum	1		
Ŭ	Capacitance between terminals	COFF	Typical	30	pF	V=0, f=100 MHz
			Maximum	40		
Capacitance between I/O terminals		CI-O	Typical	0.8	pF	f=1 MHz, Vs=0V
Ins	ulation resistance between I/O	Ri-o	Minimum	1000	MΩ	V⊦o=500 VDC, RoH≤60%
ter	terminals		Typical	10 ⁸	10152	vi-0=300 vb0, n0⊓≤00%
Turn-ON time		ton	Typical	0.3	ms	I⊧=5 mA, R∟=200 Ω, Vdd=20 V ≭
			Maximum	0.5		
Turn-OFF time		tOFF	Typical	0.3	1115	
Tu		IUFF	Maximum	0.5		

* Turn-ON and Turn-OFF Times



■Recommended Operating Conditions

For usage with high reliability, Recommended Operation Conditions is a measure that takes into account the derating of Absolute Maximum Ratings and Electrical Characteristics.

Each item on this list is an independent condition, so it is not simultaneously satisfy several conditions.

Item	Symbol		G3VM-81G1	Unit	
Load voltage (AC peak/DC)	Vdd	Maximum	64	V	
Operating LED forward current	IF	Minimum	5	mA	
Operating LED forward current	IF IF	Maximum	30		
Continuous load current (AC peak/DC)	lo	Maximum	350		
Ambient operating temperature	Та	Minimum	-20	°C	
Ambient operating temperature	Ta	Maximum	60		

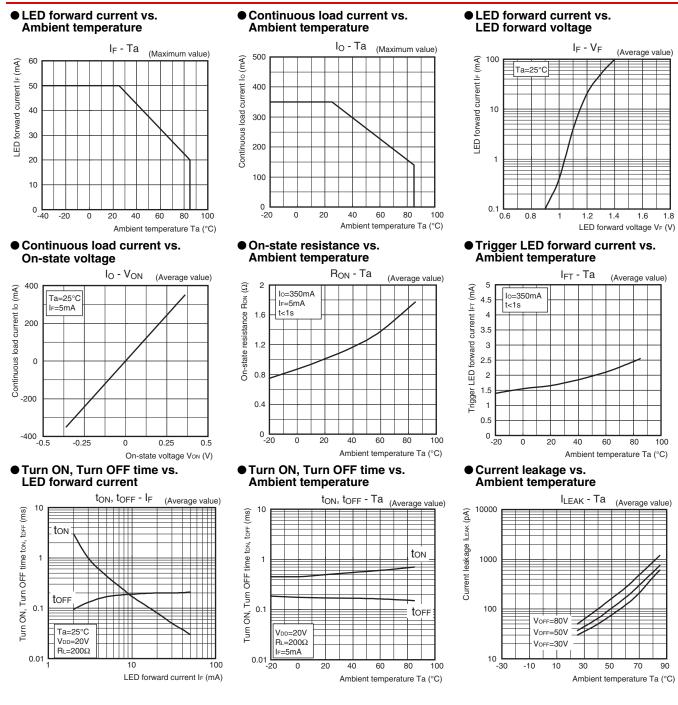
■Spacing and Insulation

Item	Minimum	Unit
Creepage distances	4.0	
Clearance distances	4.0	mm
Internal isolation thickness	0.1	

■Engineering Data

SOP

G3VM-81G

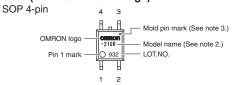


G3VM-81G

■Appearance / Terminal Arrangement / Internal Connections

Appearance

SOP (Small Outline Package)

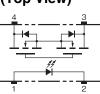


Note: 1. The actual product is marked differently from the image shown here.

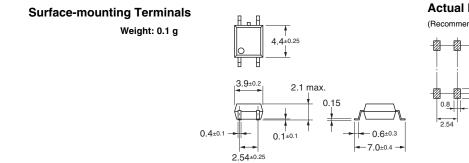
Note: 2. "G3VM" does not appear in the model number on the Relay.

Note: 3. The indentation in the corner diagonally opposite from the pin 1 mark is from a pin on the mold.

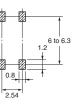




Dimensions (Unit: mm)



Actual Mounting Pad Dimensions (Recommended Value, Top View)



SOP G3VM-81G

Note: The actual product is marked differently from the image shown here.

■Approved Standards

UL recognized 🔊						
Approved Standards	Contact form	File No.				
UL (recognized)	1a (SPST-NO)	E80555				

■Safety Precautions

• Refer to the Common Precautions for All MOS FET Relays for precautions that apply to all MOS FET Relays.

Please check each region's Terms & Conditions by region website.

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In the interest of product improvement, specifications are subject to change without notice.

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