OMRON

Power MOS FET Relay

G3DZ

SSR Identical to the G6D in Size with a Maximum AC/DC Switching Current of 0.6 A

- Switching 0.6 A at 240 VAC or 100 VDC.
- 10-µA current leakage max. between open output terminals.
- 2,500-VAC dielectric strength ensured between input and output terminals.
- Input resistor and varistor incorporated models available.
- Switching full- and half-wave rectified alternating currents.
- Approved by UL and CSA.



Ordering Information

Contact form	Insulation	Zero cross function	Indicator	Applicable output load	Rated input voltage	Model
SPST-NO	Photo-voltage coupler	No	No	0.6 A at	5 VDC	G3DZ-2R6PL
				3 to 264 VAC	12 VDC	
				3 to 125 VDC	24 VDC	

■ Accessories (Order Separately)

See Dimensions for details.

Connecting socket	P6D-04P
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Specifications —

■ Ratings

Input

Rated voltage	Operating voltage	Input impedance	Voltage level	
			Must operate	Must release
5 VDC	4 to 6 VDC	830 Ω±20%	4 VDC max.	1 VDC min.
12 VDC	9.6 to 14.4 VDC	2 kΩ±20%	9.6 VDC max.	
24 VDC	19.2 to 28.8 VDC	4 kΩ±20%	19.2 VDC max.	

Output

Rated voltage	Load voltage	Load current	Inrush current
5 to 240 VAC, 5 to 100 VDC	3 to 264 VAC, 3 to 125 VDC	100 μA to 0.6 A	6 A (10 ms)

■ Characteristics

Operate time (see note)	6 ms max.
Release time (see note)	10 ms max.
Output ON-resistance (see note)	$2.4~\Omega$ max.
Leakage current	10 μA max. (at 125 VDC)
Insulation resistance	100 MΩ min. (at 500 VDC)
Dielectric strength	2,500 VAC, 50/60 Hz for 1 min between input and output
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	Malfunction: 1,000 m/s ²
Ambient temperature	Operating: -30°C to 85°C (with no icing or condensation) Storage: -30°C to 100°C (with no icing or condensation)
Approved standards	UL508 File No. E64562 CSA C22.2 (No.14) File No. LR35535
Ambient humidity	Operating: 45% to 85%
Weight	Approx. 3.1 g

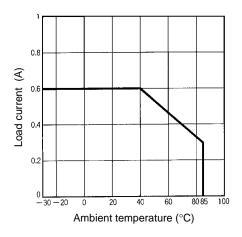
Note: These values are under the measurement conditions whereby rated voltages are applied to the input.

G3DZ

Engineering Data -

Load Current vs. Ambient Temperature Characteristics

G3DZ-2R6PL

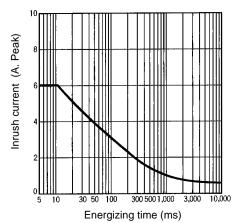


Inrush Current Resistivity

Non-repetitive (Keep the inrush current to half the rated value if it occurs repetitively.)

G3DZ-2R6PL

- OMRON -



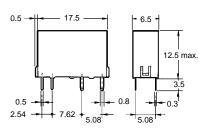
Dimensions

Note: 1. All units are in millimeters unless otherwise indicated.

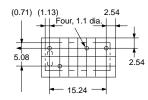
2. Orientation marks are indicated as follows:

G3DZ-2R6PL

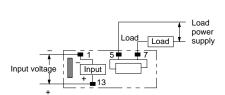




Mounting Holes (Bottom View)

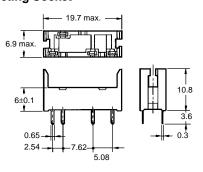


Terminal Arrangement/ Internal Connections (Bottom View)

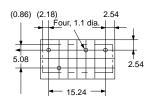


P6D-04P Connecting Socket

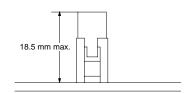




Mounting Holes (Bottom View)

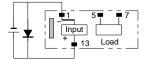


Socket Mounting Height



Precautions -

If any reversed surge voltage is imposed on the input terminals, insert a diode in parallel to the input terminals as shown in the following circuit diagram and do not impose a reversed voltage value of 3 V or more.



Terminals

Since terminals are made of materials with high heat conduction, complete soldering (automatic or manual) within 10 seconds at a temperature of 260°C.

When fitting with a Socket, match properly and push straight down vertically.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. K089-E1-1