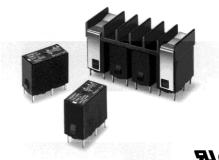
Ultra-small Relay Breaks up to 1 A

- Ultra-small, dual in-line package (DIP) SSR.
- Terminals compatible with G6B Electromagnetic Relay's. Mix with G6Bs as the application requires.
- Close side-by-side mounting possible. In addition, heat sink dedicated to this mounting style also available.
- Both AC- and DC-load versions available.
- High isolation of 2,500 VAC between input and output freeing inputs from noise surge generated in the load.
- Built-in varistor effectively absorbs external surges. (In case of SSR for AC switching.)
- Approved by UL and CSA.



A7 @

Ordering Information

Isolation	Zero cross function	Indicator	Rated output load (applicable output load)	Rated input voltage	Model
Phototriac	No	No	1 A at 100 to 240 VAC	5 VDC	G3S-201PL-US
			(1 A at 75 to 264 VAC) (see note 1)	12 VDC	
			(See Hote 1)	24 VDC	
			1.2 A at 100 to 240 VAC	5 VDC	G3S-201PL-PD-US
		(1.2 A at 75 to 264 VAC) (see note 1)	12 VDC		
			(See Hote 1)	24 VDC	
Photocoupler	7		1 A at 4 to 24 VDC	5 VDC	G3SD-Z01P-US
			(1 A at 3 to 26 VDC) (see note 2)	12 VDC	
	(See note 2)		24 VDC	ĺ	
	1.1 A at 4 to 24 VDC	5 VDC	G3SD-Z01P-PD-US		
			(1.1 A at 3 to 26 VDC) (see note 2)	12 VDC	1
			(SCC HOLC 2)	24 VDC	1

Note: 1. Product is labelled "250 VAC".

2. Product is labelled "24 VDC".

■ Accessories (Order Separately)

Heat Sink

Heat Sink					Y92B-S08N
_					

See Dimensions for details.

Connecting Socket

C	Connecting Socket				P6B-04P	
_		-	-			

See Dimensions for details.

■ Ratings

Input

Rated voltage	Operating voltage	Impeda	ance	Voltage level	
		G3S-201PL-US/ 201PL-PS-US	G3SD-Z01P-US/ Z01P-PD-US	Must operate voltage	Must release voltage
5 VDC	4 to 6 VDC	450 Ω±20%	630 Ω±20%	4 VDC max.	1 VDC min.
12 VDC	9.6 to 14.4 VDC	1.1 kΩ±20%	1.5 kΩ±20%	9.6 VDC max.	
24 VDC	19.2 to 28.8 VDC	2.2 kΩ±20%	2.8 kΩ±20%	19.2 VDC max.	

Note: Each models has 5-VDC, 12-VDC, and 24-VDC input versions.

Output

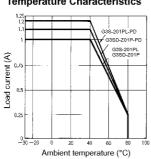
Model	Applicable load				
	Rated load voltage	Rated load voltage range	Load current	Inrush current	
G3S-201PL	100 to 240 VAC	75 to 264 VAC	0.1 to 1 A	15 A (60 Hz, 1 cycle)	
G3S-201PL-PD			0.1 to 1.2 A		
G3SD-Z01P	4 to 24 VDC	3 to 26 VDC	0.01 to 1 A	3 A (10 ms)	
G3SD-Z01P-PD			0.01 to 1.1 A		

■ Characteristics

ltem	G3S-201PL-US/201PL-PS-US	G3SD-Z01P-US/Z01P-PD-US		
Operate time 1 ms max.				
Release time	1/2 of load power source cycle + 1 ms max.	1 ms max.		
Output ON voltage drop	1.6 V (RMS) max.	1.5 V max.		
Leakage current	2 mA max.	0.1 mA max. (at 26 VDC)		
Insulation resistance	100 MΩ min. (at 500 VDC)			
Dielectric strength	2,500 VAC, 50/60 Hz for 1 min			
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 80°C (with no icing or condensation) Storage: -30°C to 100°C (with no icing or condensation)			
Ambient humidity	Operating: 45% to 85%			
Approved standards	UL508 File No. E64562/CSA C22.2 (No.0, No.14) File No. LR35535			
Weight	Approx. 13 g			

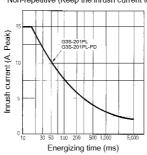
Engineering Data

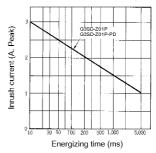
Load Current vs. Ambient Temperature Characteristics



Inrush Current Resistivity

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



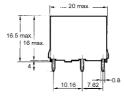


Dimensions

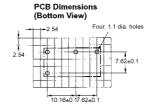
Note: All units are in millimeters unless otherwise indicated.

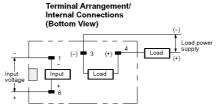
G3S/G3SD







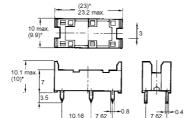


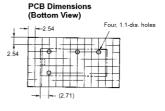


Note: Values in parentheses apply to the DC-load versions.

Connecting Socket P6B-04P

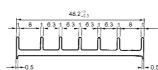


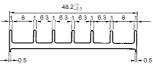




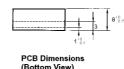
Heat Sink Y92B-S08N

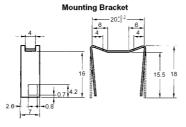


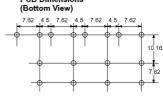




*Average value







Precautions

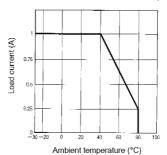
Close Mounting

G3S-201PL-PD and G3SD-Z01-PD SSRs can be closely mounted side by side. Attach the Y92B-S08N Heat Sink to the SSRs mounted closely side by side. When these SSRs are mounted side by side, the load current vs. ambient temperature characteristic declines as shown on the right.



Load Current vs. Ambient Temperature Characteristics

(When four SSRs are mounted side by side and each of them is switched to the same load current.)



Connection

With the SSR for DC switching, the load can be connected to either positive or negative output terminal of the SSR.

Protective Component

Since the SSR does not incorporate an overvoltage absorption component, be sure to connect an overvoltage absorption component when using the SSR under an inductive load.

ALL DIMENSIONS SHOWN ARE IN MILLIMETRES.

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