

Solid-state Relay

G3MB

Low-cost, Subminiature PCB-mounting SSR Switching 2 A

- Bottom is approximately three times as small as that of the G3M and ideal for high-density PCB applications.
- DC input-AC output for 2-A load at 25% C.
- Mono-block lead frame incorporating terminals, heat sink, and a PCB directly mounted with bare chips made it possible to miniaturize the relay.



Ordering Information

Model Number Legend:

G3MB -
 1 2 3 4

1. Load Supply Voltage

- 1: Between 100 and less than 200 VAC
- 2: Between 200 and less than 300 VAC

2. Load Current

- 02: 2 A

3. Terminal

- P: PCB terminal

4. Zero Cross Function

- None: With zero cross function
- L: Without zero cross function

Isolation	Zero cross function	Indicator	Snubber circuit	Applicable output load	Rated input voltage	Model
Phototriac	No	No	Yes	2 A at 100 to 120 VAC (rated load voltage)	5 VDC	G3MB-102PL
					12 VDC	
					24 VDC	
	Yes			2 A at 100 to 240 VAC (rated load voltage)	5 VDC	G3MB-202P
					12 VDC	
					24 VDC	
No	2 A at 100 to 240 VAC (rated load voltage)	5 VDC	G3MB-202PL			
		12 VDC				
		24 VDC				

Specifications

■ Ratings

Input

Rated voltage	Operating voltage	Impedance	Voltage levels	
			Must operate voltage	Must dropout voltage
5 VDC	4 to 6 VDC	440 W +20%	4 VDC max.	1 VDC min.
12 VDC	9.6 to 14.4 VDC	1 kW +20%	9.6 VDC max.	
24 VDC	19.2 to 28.8 VDC	2.2 kW +20%	19.2 VDC max.	

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

Output

Model	Applicable load			
	Rated load voltage	Load voltage range	Load current	Inrush current
G3MB-102PL	100 to 120 VAC, 50/60 Hz	75 to 132 VAC, 50/60 Hz	0.1 to 2 A	30 A (60 Hz, 1 cycle)
G3MB-202P G3MB-202PL	100 to 240 VAC, 50/60 Hz	75 to 264 VAC, 50/60 Hz		