

OMRON SIP Solid State Relays



OMRON SERIES: G3PE SERIES SOLID STATE RELAYS FOR HEATERS

Specifications:

- Isolation Method: Phototriac coupler
- Operation indicator: Yes (yellow)
- Output: Rated load voltage - 100 to 240VAC (50/60Hz)
- Insulation resistance: 1000MΩ min. (at 500VDC)
- Dielectric strength: 2,500VAC, 50/60Hz for 1 min

Features:

- Compact, Slim-profile SSRs with heatsinks
- Improved surge dielectric strength for output circuits
- Mount to DIN Track or with screws.



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Input Voltage	Zero Cross Function	Applicable Load	Price Each			
						1	25	50	100
653-G3PE-225BDC12-24	G3PE-225B DC12-24	A	12 to 24VDC	Yes	25A @ 100-240VAC	43.94	42.68	41.43	40.17
653-G3PE-245BDC12-24	G3PE-245B DC12-24	B	12 to 24VDC	Yes	45A @ 100-240VAC	63.98	62.15	60.33	58.50

OMRON G3M SERIES: SIP SOLID STATE RELAYS

Specifications:

- Surge current: 2A output - 30A; 3A & 5A output - 45A
- Dielectric strength: 2A output - 20000VAC; 3A & 5A output 500VAC
- Insulation resistance: 1000MΩ min. (at 500VDC)

Features:

- Thin design for high-density PCB applications
- DC input-AC output up to 5A load
- Two footprints offer greater flexibility



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Input Voltage	Output Load	Zero Cross Function	Price Each				
						1	25	50	100	
7.62mm Input Terminal Pitch										
653-G3M202PUSDC5	G3M-202P-US-DC5	C	5VDC	2A @ 100-240VAC	Yes	7.07	6.49	6.29	5.90	
653-G3M202PUSDC12	G3M-202P-US-DC12	C	12VDC	2A @ 100-240VAC	Yes	7.07	6.49	6.29	5.90	
653-G3M202PUSDC24	G3M-202P-US-DC24	C	24VDC	2A @ 100-240VAC	Yes	7.07	6.49	6.29	5.90	
653-G3M203PDC5	G3M-203P-DC5	C	5VDC	3A @ 100-240VAC	Yes	10.28	9.64	9.24	8.80	
653-G3M203PDC12	G3M-203P-DC12	C	12VDC	3A @ 100-240VAC	Yes	10.28	9.64	9.24	8.80	
653-G3M203PDC24	G3M-203P-DC24	C	24VDC	3A @ 100-240VAC	Yes	10.28	9.64	9.24	8.80	
653-G3M203PLDC24	G3M-203PL-DC24	C	24VDC	3A @ 100-240VAC	No	10.96	10.40	9.28	9.00	
653-G3M205PLDC5	G3M-205PL-DC5	D	5VDC	5A @ 100-240VAC	No	11.61	11.26	10.70	9.99	
653-G3M205PLDC12	G3M-205PL-DC12	D	12VDC	5A @ 100-240VAC	No	11.61	11.26	10.70	9.99	
653-G3M205PLDC24	G3M-205PL-DC24	D	24VDC	5A @ 100-240VAC	No	11.61	11.26	10.70	9.99	
5.08mm Input Terminal Pitch										
653-G3M202PUS4DC5	G3M-202P-US-4-DC5	C	5VDC	2A @ 100-240VAC	Yes	7.07	6.49	6.29	5.90	
653-G3M202PUS4DC12	G3M-202P-US-4-DC12	C	12VDC	2A @ 100-240VAC	Yes	7.07	6.49	6.29	5.90	
653-G3M-202PUS4DC24	G3M-202P-US-4 DC24	C	24VDC	2A @ 100-240VAC	Yes	7.27	6.49	6.29	5.98	

OMRON G3MB SERIES: SUBMINIATURE SIP SOLID STATE RELAYS

Specifications:

- Surge current: 30A (60Hz, 1 cycle)
- Leakage current: 5mA @ 100VAC; 10mA @ 200VAC
- Rated output load: 2A @ 100-240VAC
- Phototriac isolation
- Insulation resistance: 1000MΩ (at 500VDC)

Features:

- Built-in snubber circuit and input resistor
- Dedicated, compact aluminum PCB and power elements used
- No heat sink needed due to mono block lead frame
- Low cost "SIP" package switches up to 2A loads
- Two footprints available for flexibility



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Input Voltage	Output Load	Zero Cross Function	Price Each				
						1	25	50	100	
7.62mm Input Terminal Pitch										
653-G3MB-202PL-DC5	G3MB-202PL-DC5	E	5VDC	2A @ 100-240VAC	No	4.13	3.63	3.41	3.05	
653-G3MB-202PL-DC12	G3MB-202PL-DC12	E	12VDC	2A @ 100-240VAC	No	4.13	3.63	3.54	3.28	
653-G3MB-202PL-DC24	G3MB-202PL-DC24	E	24VDC	2A @ 100-240VAC	No	4.13	3.71	3.30	2.97	
653-G3MB-202P-DC5	G3MB-202P-DC5	E	5VDC	2A @ 100-240VAC	Yes	4.72	4.52	4.02	3.62	
653-G3MB-202P-DC12	G3MB-202P-DC12	E	12VDC	2A @ 100-240VAC	Yes	4.29	4.06	3.81	3.72	
653-G3MB-202P-DC24	G3MB-202P-DC24	E	24VDC	2A @ 100-240VAC	Yes	4.55	4.09	3.64	3.27	
5.08mm Input Terminal Pitch										
653-G3MB-202P4DC5	G3MB-202P-4 DC5	E	5VDC	2A @ 100-240VAC	Yes	5.31	4.72	4.60	3.61	

OMRON G3MC SERIES: COMPACT SIP SOLID STATE RELAYS

Specifications:

- Surge current: 1A output - 8A; 2A output - 30A
- Dielectric strength: 2500VAC
- Insulation resistance: 1000MΩ (at 500VDC)

Features:

- Built-in snubber circuit
- Smaller footprint (20% smaller than G3MB)
- Compact thin-profile of monoblock construction with an all-in-one frame incorporates a PCB, terminals, and a heatsink
- DC and AC output for an applicable load of 1A at 40°C



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Input Voltage	Output Load	Zero Cross Function	Price Each			
						1	25	50	100
653-G3MC-101P-DC5	G3MC-101P-DC5	F	5VDC	1A @ 100-120VAC	Yes	3.87	3.47	3.09	2.78
653-G3MC-101P-DC12	G3MC-101P-DC12	F	12VDC	1A @ 100-120VAC	Yes	3.92	3.52	3.13	2.82
653-G3MC-101P-DC24	G3MC-101P-DC24	F	24VDC	1A @ 100-120VAC	Yes	3.92	3.52	3.13	2.82
653-G3MC-101PL-DC5	G3MC-101PL-DC5	F	5VDC	1A @ 100-120VAC	No	3.58	3.22	2.86	2.57
653-G3MC-101PL-DC12	G3MC-101PL-DC12	F	12VDC	1A @ 100-120VAC	No	3.58	3.22	2.86	2.57
653-G3MC-101PL-DC24	G3MC-101PL-DC24	F	24VDC	1A @ 100-120VAC	No	3.58	3.22	2.86	2.57
653-G3MC-201P-DC5	G3MC-201P-DC5	F	5VDC	1A @ 100-240VAC	Yes	3.44	3.21	3.07	2.94
653-G3MC-201PL-DC5	G3MC-201PL-DC5	F	5VDC	1A @ 100-240VAC	No	3.93	3.53	3.14	2.82
653-G3MC-202P-DC5	G3MC-202P-DC5	G	5VDC	2A @ 100-240VAC	Yes	4.09	3.83	3.66	3.50
653-G3MC-202P-DC12	G3MC-202P-DC12	G	12VDC	2A @ 100-240VAC	Yes	4.09	3.83	3.66	3.50
653-G3MC-202P-DC24	G3MC-202P-DC24	G	24 VDC	2A @ 100-240VAC	Yes	4.09	3.83	3.66	3.50
653-G3MC-202PL-DC5	G3MC-202PL-DC5	G	5VDC	2A @ 100-240VAC	No	4.09	3.83	3.66	3.50
653-G3MC-202PL-DC12	G3MC-202PL-DC12	G	12VDC	2A @ 100-240VAC	No	4.09	3.83	3.66	3.50
653-G3MC-202PL-DC24	G3MC-202PL-DC24	G	24VDC	2A @ 100-240VAC	No	4.09	3.83	3.66	3.50

