

Relays & Solenoids

OMRON_PCB Relays

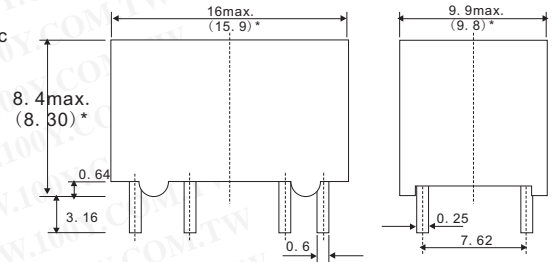
Detailed product specifications are available on: us.100y.com.tw



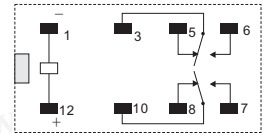
- Unique moving-loop armature reduces relay size, magnetic interference and contact bounce time.
- Miniature permissible load: 0.01 mA 10 mVDC.
- Bifurcated gold-clad crossbar contact.
- International 2.54-mm terminal pitch.
- Special models available for FCC Part 68 compliance.

Characteristics

Contact resistance: 50 mΩ max.
 Operate (set) time: Single-side stable types: 5 ms max. (mean value: approx. 2.4 ms)
 Latching types: 5 ms max. (mean value: approx. 2 ms)
 Release (reset) time: Single-side stable types: 5 ms max. (mean value: approx. 1.1 ms)
 Latching types: 5 ms max. (mean value: approx. 1.8 ms)
 Bounce time: Operate: Approx. 0.5 ms Release: Approx. 0.5 ms
 Insulation resistance: 1,000 M min. (at 500 VDC)
 Impulse withstand voltage: 1,500 V (10 x 160 μs) between contacts of same polarity (conforms to FCC Part 68)
 Vibration resistance: Destruction: 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)
 Malfunction: 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)



Terminal arrangement/
Internal connections
(Bottom view)



Shock resistance: Destruction: 1,000 m/s² (approx. 100G)
 Malfunction: 300 m/s² (approx. 30G)
 Ambient temperature: Operating: -40°C to 70°C (with no icing)
 Ambient humidity: Operating: 5% to 85%
 Weight: Approx. 3 g



Part No.	Product No.	Manufacturer	Description	Outline L*W*H	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Type
35766	G5A-234P-DC12V	OMRON	Power Relay	16mm x 9.9mm x 8.4mm	DPDT	0.5 A at 30 VAC, 1 A at 30 VDC	12VDC	UL, CSA	Sub-miniature DPDT relay
36563	G5A-234P-DC24V	OMRON	Power Relay	16mm x 9.9mm x 8.4mm	DPDT	0.5 A at 30 VAC, 1 A at 30 VDC	24VDC	UL, CSA	Sub-miniature DPDT relay
36559	G5A-234P-DC3V	OMRON	Power Relay	16mm x 9.9mm x 8.4mm	DPDT	0.5 A at 30 VAC, 1 A at 30 VDC	3VDC	UL, CSA	Sub-miniature DPDT relay
36560	G5A-234P-DC5V	OMRON	Power Relay	16mm x 9.9mm x 8.4mm	DPDT	0.5 A at 30 VAC, 1 A at 30 VDC	5VDC	UL, CSA	Sub-miniature DPDT relay
36561	G5A-234P-DC6V	OMRON	Power Relay	16mm x 9.9mm x 8.4mm	DPDT	0.5 A at 30 VAC, 1 A at 30 VDC	6VDC	UL, CSA	Sub-miniature DPDT relay
36562	G5A-234P-DC9V	OMRON	Power Relay	16mm x 9.9mm x 8.4mm	DPDT	0.5 A at 30 VAC, 1 A at 30 VDC	9VDC	UL, CSA	Sub-miniature DPDT relay



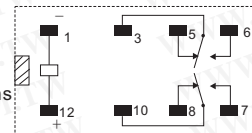
- Subminiature 8.40 H x 9.90 W x 16 L mm (0.33 H x 0.38 W x 0.63 L in)
- Unique moving magnet armature (MovingLoop System) reduces relay size, magnetic interference, and contact bounce time
- Low nominal power consumption (200 mW)
- Bifurcated crossbar contact assures highly reliable switching of loads as low as 10 mVDC, 0.1 mA (reference value) Automatic flow or dip soldering possible
- Available in standard, high-sensitivity, high-dielectric (FCC part 68), low thermal electromotive force, and ultrasonic cleaning versions
- Highly stable magnetic circuit for latching endurance and excellent resistance to vibration and shock
- Single or double coil winding types available

CHARACTERISTICS

Contact resistance: 50 mΩ max.
 Bounce time: Operate: Approx. 0.5 ms
 Release: Approx. 0.5 ms
 Operating frequency: Mechanical: 36,000 operations/hour
 Electrical: 18,000 operations/hour (under rated load)
 Vibration: Mechanical durability: 10 to 55 Hz; 1.50 mm (0.06 in) double amplitude
 Malfunction durability: 10 to 55 Hz; 1.50 mm (0.06 in) double amplitude



Internal connections
(Bottom view)



Shock: Mechanical durability: Approx. 100 G
 Malfunction durability: Approx. 30 G
 Ambient temperature: -40 to 70°C (-40° to 158°F)
 Humidity: 45% to 85% RH
 Weight: Approx. 3 g (0.11 oz)



Part No.	Product No.	Manufacturer	Description	Outline L*W*H	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Type
35765	G5A-234P-DC48V	OMRON	Low Signal Relay	8.40 H x 9.90 W x 16 L mm	DPDT	1 A, 30 VDC 0.5 A, 60 VAC	48 VDC	UL, CSA	G5A
41635	G5A-234PH	OMRON	Low Signal Relay	8.40 H x 9.90 W x 16 L mm	DPDT	1 A, 30 VDC 0.5 A, 60 VAC	1.5 to 48 V DC	UL, CSA	G5A
41634	G5A-237P-FC	OMRON	Low Signal Relay	8.40 H x 9.90 W x 16 L mm	DPDT	1 A, 30 VDC 0.5 A, 60 VAC	1.5 to 48 VDC	UL, CSA	G5A
41638	G5A-237PH	OMRON	Low Signal Relay	8.40 H x 9.90 W x 16 L mm	DPDT	1 A, 30 VDC 0.5 A, 60 VAC	1.5 to 48 VDC	UL, CSA	G5A
41636	G5AU-237PH	OMRON	Low Signal Relay	8.40 H x 9.90 W x 16 L mm	DPDT	1 A, 30 VDC 0.5 A, 60 VAC	1.5 to 48 VDC	UL, CSA	G5A

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