

DC Output Solid State Relay PCS27 DC Output



FEATURES

- 2 A or 3 A Output
- DC Input: 5 VDC; 12 VAC; 24 VAC
- PCB Mount
- Built in Snubber
- Photoelectric Isolation
- RoHS Compliant

INPUT PARAMETERS (Ta = 25°C)

Control Voltage Range	5	4 - 6 VDC
	12	9.6 - 14.4 VDC
	24	19.2 - 28.8 VDC
Must Turn-On Voltage	5	4 VAC
	12	9.6 VAC
	24	19.2 VAC
Must Turn-Off Voltage		1 VDC
Max. Input Current	5	25 mA
	12	25 mA
	24	25 mA
Input Resistance	5	250 Ω
	12	720 Ω
	24	1.64 kΩ

OUTPUT PARAMETERS (Ta = 25°C)

	50D	100D
Load Voltage Range	3 - 60 VDC	3 - 100 VDC
Max. Transient Voltage	60 Vpk	100 Vpk
Load Current Range	0.1 - 2 A	
Max. Surge Current (10 ms)	8 Apk	
Max. On-State Voltage Drop	1.5 VDC	
Max. Off-State Leakage Current	0.1 mA	
Max. Turn-On Time	0.5 ms	
Max. Turn-Off Time	1 ms	

CHARACTERISTICS

Dielectric Strength	2500 VAC, 50 Hz/60 Hz, 1 min. (Input to Output)
Insulation Resistance	1000 MΩ at 500 VDC (Input to Output)
Max. Capacitance	8 pF (Input to Output)
Shock Resistance	Acceleration 980 m/s ² , Continuous Surge 6 ms
Vibration Resistance	10 Hz - 55 Hz 1.5 mm DA

Operating Temperature	- 30°C to 85°C
Storage Temperature	- 30°C to 100°C
Relative Humidity	45% - 85%
Weight	Approximately 20 g

ORDERING INFORMATION

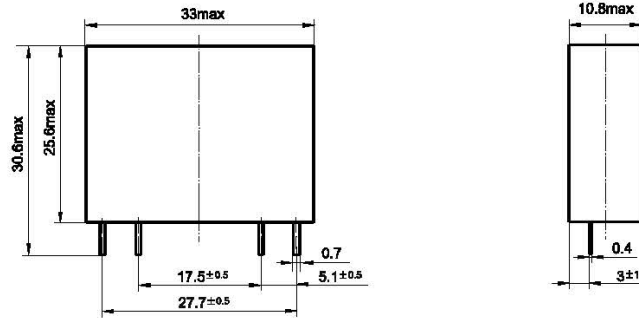
Example:	PCS27	-12D	-50D	-2	Z
Model:	PCS27 DC Output				
Control Voltage:	5D: 4-6 VDC 12D: 9.6 - 14.4 VDC, 24D: 19.2 - 28.8 VDC				
Load Voltage:	50D: 50VDC 100D: 100VDC				
Load Current:	2: 2 Amp, 3: 3 Amp				
Switching Type:	Z: Zero Crossing, R: Random Turn-On				

Box Quantity: 540; Inner Box 27

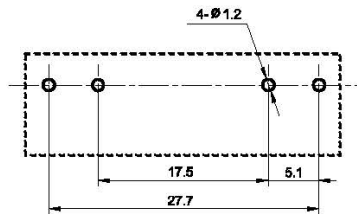
PRECAUTIONS

1. Soldering must be completed within 10s at 260°C or less or within 5s at 350°C or less.
2. The SSR case serves to dissipate heat. Install the relays so that they are adequately ventilated. If poor ventilation is unavoidable, the load current must be reduced. Please refer to the curve of Max. Load current Vs Ambient Temperature.
3. Please do not use the relay beyond the description in the data sheet. If it is a must to use it beyond description, please contact Jinxinrong for more technical support.

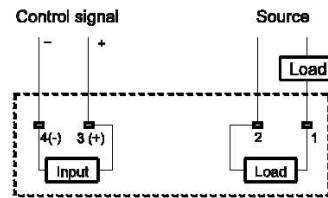
DIMENSIONS (mm)



PCB Layout (Bottom view)

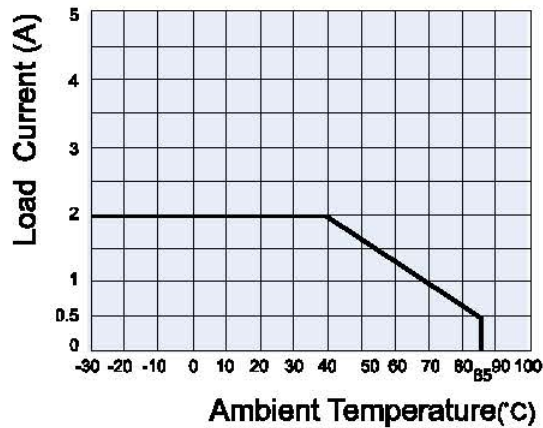


Wiring Diagram



CHARACTERISTIC CURVES

Max. Load Current vs. Ambient Temperature



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