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)

c UL us E93379

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 mmm 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

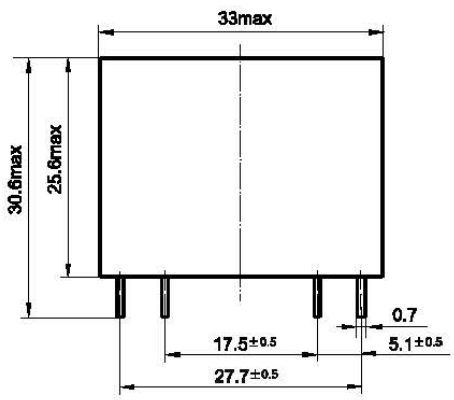
PICKER® 14680 James Road, Rogers, MN 55374 USA
Sales: (763) 535-2339
www.PickerComponents.com
e-mail: sales@pickercomponents.com

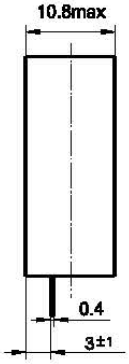
Dimensions are listed for reference purposes only.
Specifications and Availability subject to change without notice.

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 the user desires to operate the relay beyond its specified parameters, please contact Picker Components for technical support.

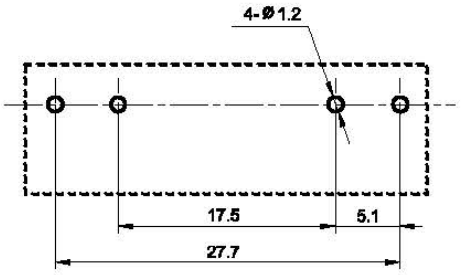
DIMENSIONS (mm)

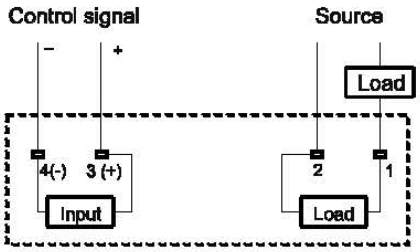




PCB Layout (Bottom view)

Wiring Diagram





CHARACTERISTIC CURVES