

Subminiature Automotive PCB Power Relay

PC236A



FEATURES

- Subminiature design
- 1 A (SPST NO) and 1 C (SPDT) contact forms available
- Contact switching capacity up to 60 Amps
- Larger contact gap available for heavy motor loads
- 85 degrees C operating temperature
- Industry standard 1/2 size terminal layout
- Sealed, immersion cleanable

CONTACT RATINGS

Contact Form	1 Form A or 1 Form C SPST NO or SPDT
Max Switching Current	Make 60 Amps
	Break 20 Amps
Max. Switching Voltage	16 VDC
Max. Continuous Current	35 A for 10 Min; 25 A for 1 hr.
Minimum Load	0.1 A @ 12 VDC

CONTACT DATA

Material	AgNiO 15 (Silver Nickel Oxide 15%) AgSnOInO (Silver Tin Oxide Indium Oxide)	
Initial Contact Resistance	100 milliohms max @ 0.1A, 6VDC	
Service Life	Mechanical	1 X 10 ⁷ Operations
	Electrical	1 X 10 ⁵ Operations

CHARACTERISTICS

Operate Time	10 ms. typical
Release Time	5 ms. typical
Insulation Resistance	100 megohms min, at 500VDC, 50%RH
Dielectric Strength	1250 Vrms, 1 min. between coil and contacts
Shock Resistance	10 g, 11ms, functional; 100 g, destructive
Vibration Resistance	DA 1.5 mm, 10 - 55 Hz
Drop Resistance	1 Meter height drop on concrete
Power Consumption	Standard: 0.6 W; Large Gap: 0.8 W
Ambient Temperature Range	-30 to 85 degrees C operating, -40 to 100 storage
Weight	6 grams approx.

ORDERING INFORMATION

Example:	PC236A	-1C	-12	F	-G
Model					
Contact Form					
1A or 1C					
Coil Voltage					
Insulation System					
Nil: Class B (125 degrees C); F: Class F (155 degrees C)					
Contact Gap					
Nil: Standard; G: Large Gap					

COIL DATA

Coil Voltage	Resistance ohms $\pm 10\%$				Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)
	Standard Coil		Large Gap			
6	60	0.6 W	45	0.8 W	3.6	0.6
9	135		100		5.4	0.9
12	240		180		7.3	1.2
24	960		720		14.4	2.4

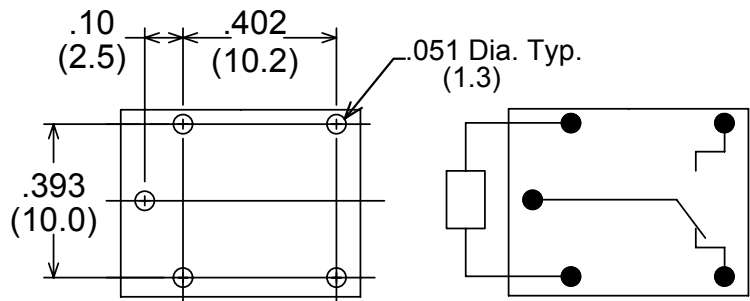
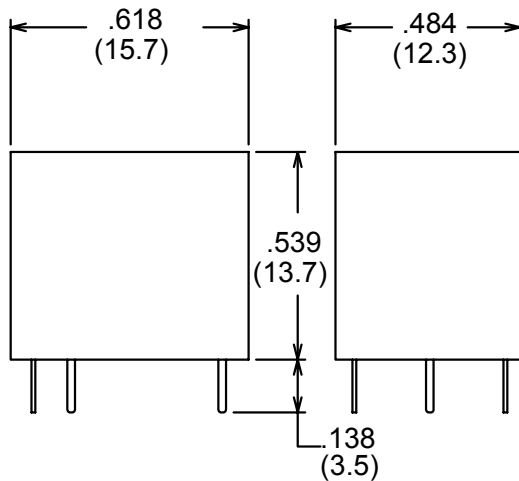
**Dimensions in Inches (millimeters)
Drawings are 2X actual size**

Side View

End View

**Bottom View
PC Board Layout**

Wiring Diagram



Notes:
Contact Form C shown
On Contact Forms A & B Unused Pins are Omitted
Tolerances $\pm .010$ unless otherwise noted



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