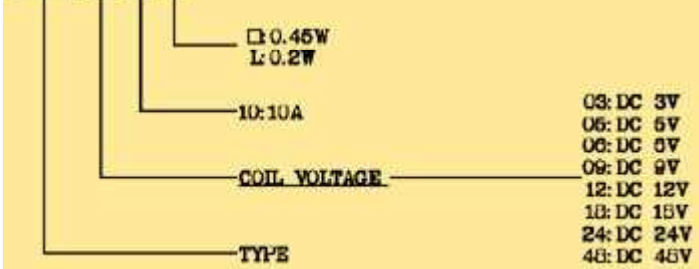


## SOJ SERIES

### SOJ SERIES

ORDER CODE  
SOJ-12-10-L



#### Main Features:

- 1 from A (SPST) contact.
- Small size produces a switchint capacity up to 10amps for high density PCB mounting technique.
- Surge strength 3,000 VAC.
- Special design for household appliances flux free and sealed type available.

### COIL RATING (at 20°C)

NOMINAL VOLTAGE (VDC)	COIL RESISTANCE ( $\Omega$ ) (+/- 10%)	POWER CONSUMPTION (W)	NOMINAL CURRENT (mA) (+/- 10%)	PULL IN VOLTAGE (VDC)	DROP OUT VOLTAGE (VDC)	MAX. ALLOWABLE VOLTAGE (VDC)
3V	20 $\Omega$	0.45W	150.0 mA	75 % MAX.	5 % MIN.	120 %
5V	55 $\Omega$		90.9 mA			
6V	80 $\Omega$		75.0 mA			
9V	180 $\Omega$		50.0 mA			
12V	320 $\Omega$		37.5 mA			
18V	720 $\Omega$		25.0 mA			
24V	1280 $\Omega$		18.8 mA			
48V	51000 $\Omega$		9.4 mA			

	NOMINAL VOLTAGE (VDC)	COIL RESISTANCE ( $\Omega$ ) (+/- 10%)	POWER CONSUMPTION (W)	NOMINAL CURRENT (mA) (+/- 10%)	PULL IN VOLTAGE (VDC)	DROP OUT VOLTAGE (VDC)	MAX. ALLOWABLE VOLTAGE (VDC)
L	3V	45 $\Omega$	0.2W	66.7 mA	75 % MAX.	5 % MIN.	120 %
	5V	125 $\Omega$		40.0 mA			
	6V	180 $\Omega$		33.3 mA			
	9V	400 $\Omega$		22.5 mA			
	12V	720 $\Omega$		16.7 mA			
	24V	2800 $\Omega$		8.6 mA			

### PERFORMANCE (at initial value)

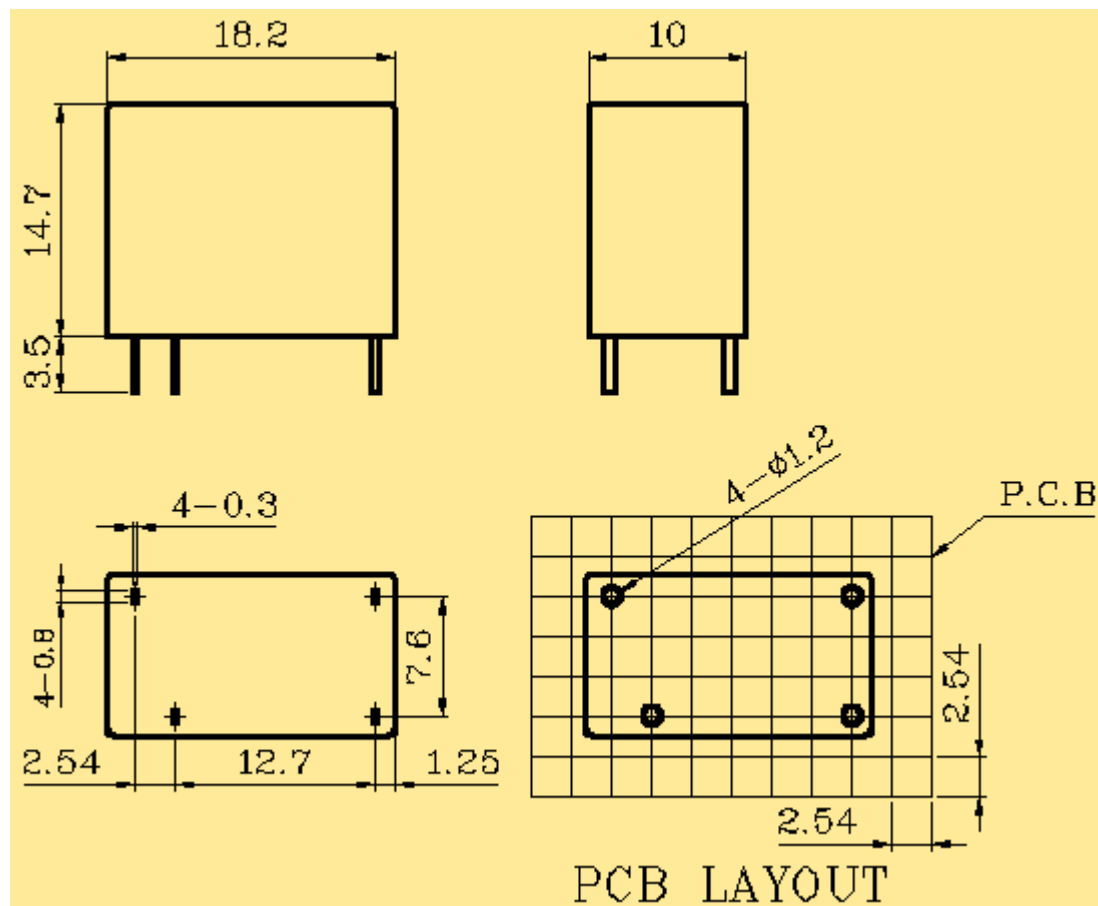
Item	Type	10A
Contact Resistance		100m $\Omega$ Max. (initial value)
Operate Time		10msec Max.
Release Time		4msec Max.
Dielectric Strength		AC 3000V (1min) AC 1000V (1min)
	between coil & contact between contact	
Surge Resistance		5,000V
Insulation Resistance		100M $\Omega$ Min.(DC 500V)

Operating Ambient Temperature	-30°C ~ +55°C
Humidity	45 to 85% RH
Vibration Resistance	10G (10~55 Hz)(Dual amplitude: 1.5mm)
Shock Resistance	10G
Life Expectancy	10,000,000 ops. Min. (1800 ops./h) 100,000 ops. Min. (1200 ops./h)
Mechanically	
Electrically	
Weight	9g (about)

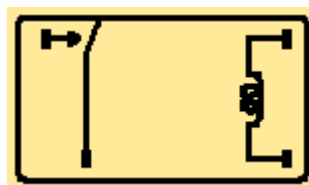
## CONTACT RATING

Item	Type	10A
Rated Carrying Current		AC 250V 5A AC 120V 10A DC 30V 10A
Max. Allowable Current		10A
Max. Allowable Voltage		AC 265V DC 30V
Max. Current (continual)		10A
Min. Load		DC 5V 10mA
Contact Material		Ag alloy

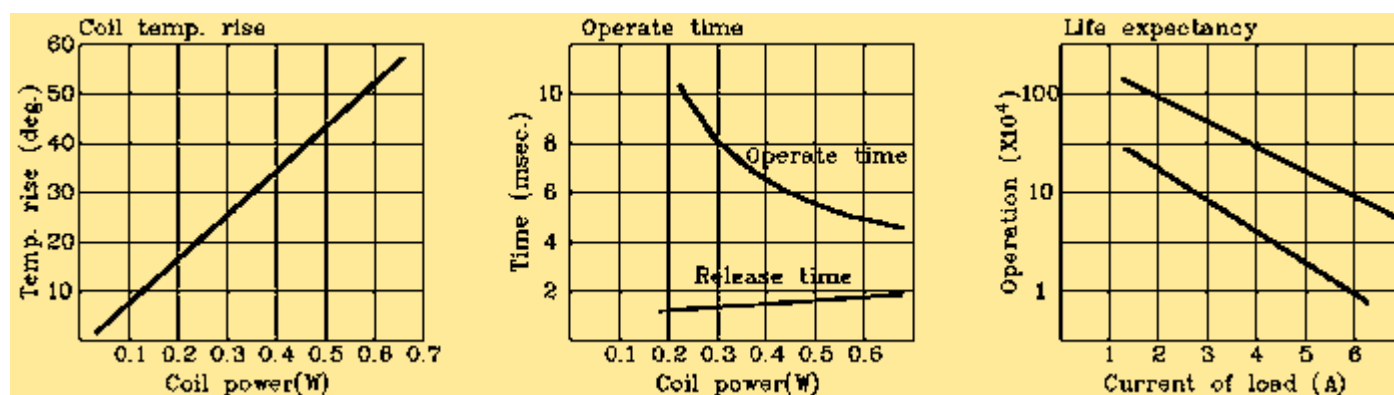
## DIMENSIONS (Unit : mm)



## WIRING DIAGRAMS (Bottom View)



## REFERENCE DATA





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