

# PCB Mount Solid State Relay

## Single Phase DC Output

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**RoHS  
Compliant**



### Description

This is DC solid state relay with high EMC and high inrush current capability, it is widely used in all kinds of DC motor, DC power supply and electromagnetic devices. The control voltage is 5V DC, and 12V DC, opto-isolation between input and output, dielectric strength  $\geq 2500V$  ACrms.

### Features

- Opto-isolation
- Load Current: 0.02 - 4A @ 60V DC
- Control Voltage: 5V DC, 12V DC
- Dielectric Strength:  $\geq 2500V$  ACrms
- Suitable for The High Density PCB Installation

### Application

Applicable to the isolation and control of weak current to high voltage, as well as the transformation of electricity, convenient to all kinds of computers and digital interface circuit connection, widely used in all kinds of DC motor, DC power supply and electromagnetic devices.

### Technical Specification

Input Circuit		
Control Voltage Range	5V DC	4-6V DC
	12V DC	9.6-14.4V DC
Minimum Turn-on Voltage	5V DC	4V DC
	12V DC	9.6V DC
Minimum Turn-off Voltage		1V DC
Maximum Input Current		25mA
Output Circuit		
Load Voltage Range		3-60V DC
Transient Over Voltage		66Vpk
Load Current Range	1A	0.02~1A
	4A	0.02~4A
Maximum Surge Current [@10 ms]	1A	4A
	4A	20A
Maximum On-state Voltage Drop [@ Rated Current]		0.5V
Maximum Turn-on Time		1ms
Maximum Turn-off Time		1ms
Maximum Off-state Leakage Current [@ Rated Voltage]		0.1mA

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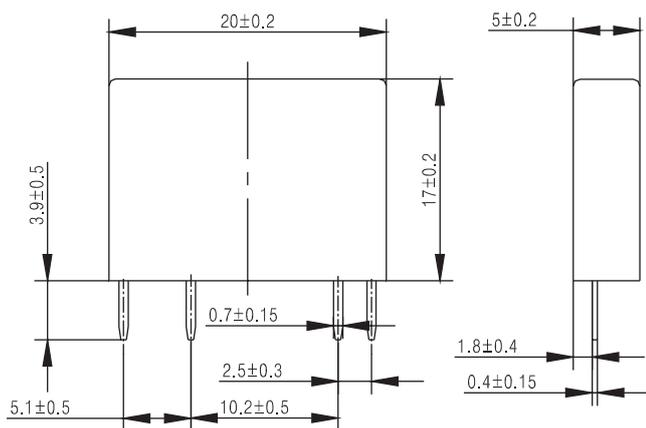
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General Information	
Dielectric Strength, Input/Output[50/60Hz]	≥2500Vrms
Insulated Resistance	1000MΩ (@500VDC)
Ambient Operating Temperature Range	-30°C ~ +80°C
Ambient Storage Temperature Range	-30°C ~ +100°C
Weight [Typical]	3g

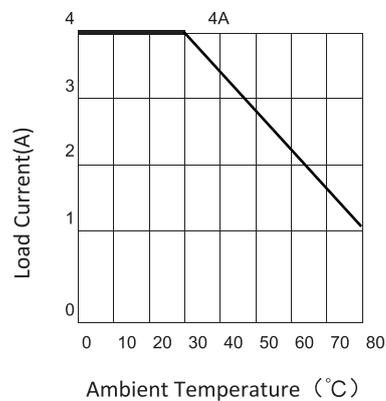
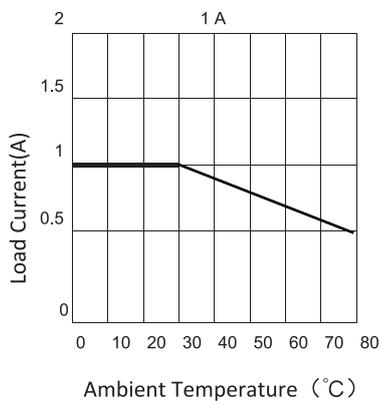
### Installation Drawing

#### T Type Footprint



Dimensions : Millimetres

### Thermal Curve



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### Part Number Table

Description	Part Number
SSR, PCB Mount, 1A, 3-60V DC, 5V DC, T Footprint	MC002241
SSR, PCB Mount, 4A, 3-60V DC, 12V DC, T Footprint	MC002242

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