

## Solid State Relay

### KSCD Series Single Phase DC Output

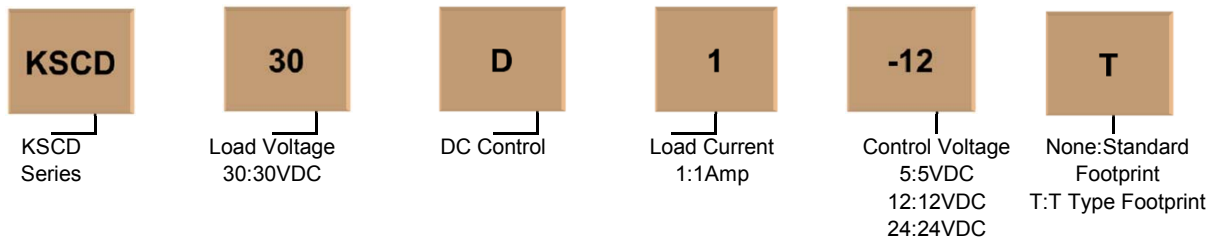


- Opto-isolation
- Load current:0.02-1A@30VDC
- Control voltage:4-6VDC, 10-14VDC, 20-28VDC
- Dielectric strength:  $\geq 2500\text{VACrms}$
- Suitable for the high density PCB installation
- RoHS compliant

#### Product Description

KSCD series 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.Control voltage is 5VDC,12VDC and 24VDC,opto-isolation between input and output,dielectric strength  $\geq 2500\text{VACrms}$ .

#### Product Selection



Control Voltage	1A
4-6 VDC	KSCD30D1-5
10-14 VDC	KSCD30D1-12
20-28 VDC	KSCD30D1-24

#### Technical Specification

##### Input Circuit

Control Voltage Range	5	4-6VDC
	12	10-14VDC
	24	20-28VDC
Minimum Turn-On Voltage	5	4VDC
	12	10VDC
	24	20VDC
Minimum Turn-Off Voltage		1.0VDC
Maximum Input Current		25mA

##### Output Circuit

Load Voltage Range	0-30VDC
Transient Overvoltage	33Vpk
Load Current Range	0.02~1A
Maximum Surge Current [@10 ms]	4A
Maximum On-State Voltage Drop [@ Rated Current]	1.2V

Maximum Turn-On Time	1ms
Maximum Turn-Off Time	1ms
Maximum Off-State Leakage Current [@ Rated Voltage]	0.1mA

### General Information

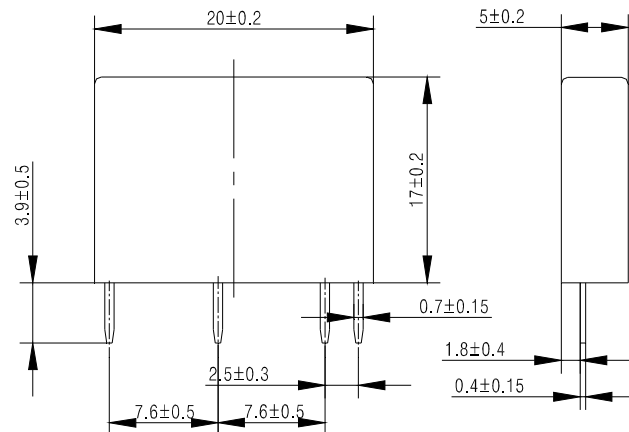
Dielectric Strength, Input/Output[50/60Hz]	$\geq 2500V_{rms}$
Insulated Resistance (500VDC)	1000M $\Omega$
Ambient Operating Temperature Range	-30 $^{\circ}C \sim +80^{\circ}C$
Ambient Storage Temperature Range	-40 $^{\circ}C \sim +100^{\circ}C$
Weight [typical]	4.5g

### Application

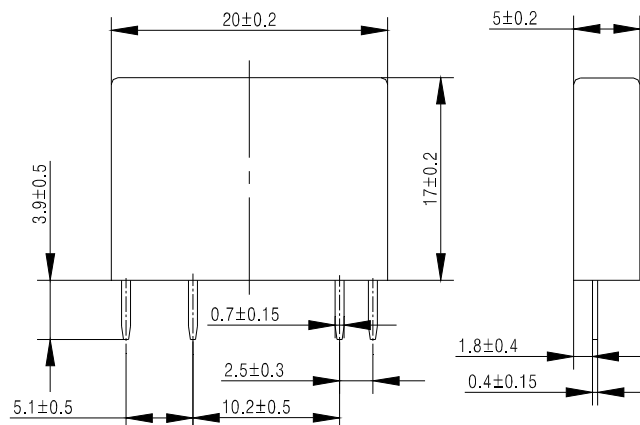
Applicable to the isolation and control of weak current to high voltage ,as well as the transformation of electricity, convenient to all kinds of computers and digital interface circuit connection, widely used in all kinds of DC motor,DC power supply and electromagnetic devices.

### Installation

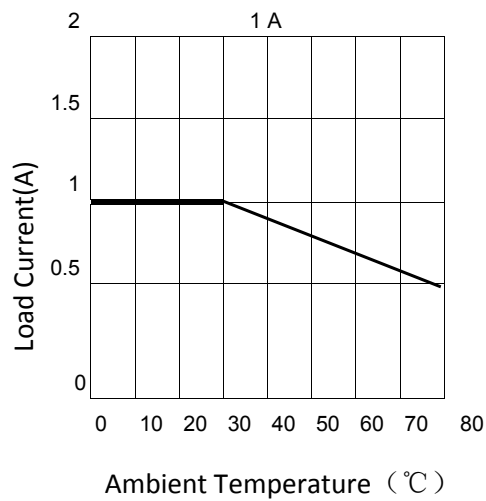
a) Standard Footprint



b) T Type Footprint



## Thermal Curve



## Important Notice

1. Soldering must be finished within 10 seconds at 250°C, and finished within 5 seconds at 350°C.
2. Terminal polarity to ensure proper control, or may damage the product.
3. The product is electrostatic sensitive devices, during the installation process, personnel and equipment must be electrostatic protection, otherwise may damage the product.

## Product Certification



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