

- ◆ MOSFET Output (4A) or Transistor Output (1A)
- ◆ Control Voltage: 5VDC, 12VDC, 24VDC
- ◆ Load Current: 1A, 4A
- ◆ Dielectric Strength: 2500Vrms
- ◆ PCB Mounted
- ◆ RoHS Compliant



### Ordering Information

KSCD	30	D	1	-12	T	(XXX)
KSCD Series	Load Voltage 30: 30VDC 60: 60VDC	DC Control	Load Current 1: 1Amp 4: 4Amp	Control Voltage 5: 5VDC 12: 12VDC 24: 24VDC	Blank: Standard T Pin Layout: T Type Footprint	Customized Code

Note (1): The part number selection is subject to the following list.

Control Voltage	1A	4A
5VDC	KSCD30D1-5(T)	KSCD60D4-5(T)
12VDC	KSCD30D1-12(T)	KSCD60D4-12(T)
24VDC	KSCD30D1-24(T)	KSCD60D4-24(T)

### General Specifications

Input Specifications (Ta=25°C)		
Control Voltage Range	5	4-6VDC
	12	9.6-14.4VDC
	24	19.2-28.8VDC
Must Turn-On Voltage	5	4VDC
	12	9.6VDC
	24	19.2VDC
Must Turn-Off Voltage	1VDC	
Maximum Input Current	5	25mA (@6VDC)
	12	25mA (@14.4VDC)
	24	25mA (@28.8VDC)
Output Specifications (Ta=25°C)		
Load Voltage Range	30VDC	3-30VDC
	60VDC	0-60VDC
Maximum Transient Overvoltage	30VDC	30Vpk
	60VDC	60Vpk
Load Current Range	1A	0.02~1A
	4A	0.02~4A
Maximum Transient Overvoltage	1A	4A
	4A	20A
Maximum On-State Voltage $r_{op}@Rated\ Current$	30VDC	1.5V
	60VDC	0.5V

### General Specifications

#### Output Specifications (Ta=25°C)

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

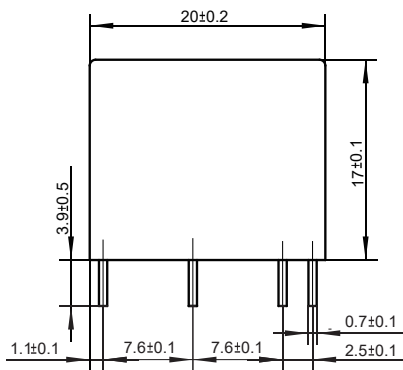
#### General Specifications (Ta=25°C)

Dielectric Strength (50/60Hz)	2500Vrms
Minimum Insulation Resistance (@500VDC)	1000MΩ
Ambient Temperature Range	-30°C ~ +80°C
Storage Temperature Range	-30°C ~ +100°C
Weight (Typical)	3g

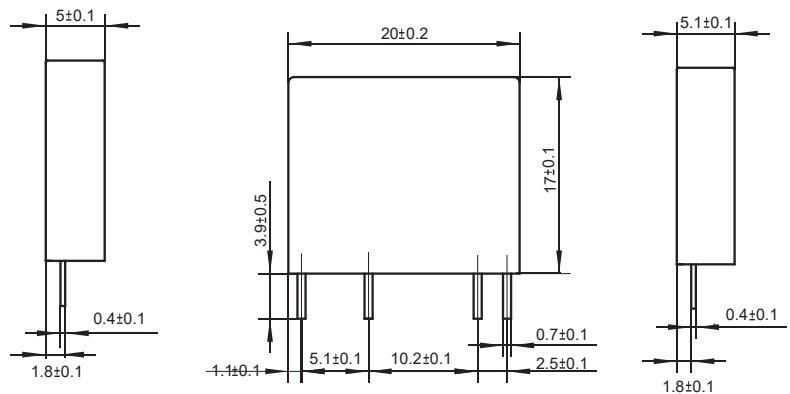
### Applications

Suitable for DC motors, DC power supplies, electro-mechanical devices, and etc.

### Outline Dimensions

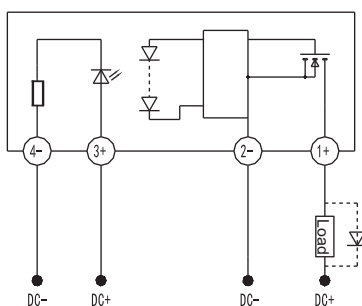


Standard Footprint

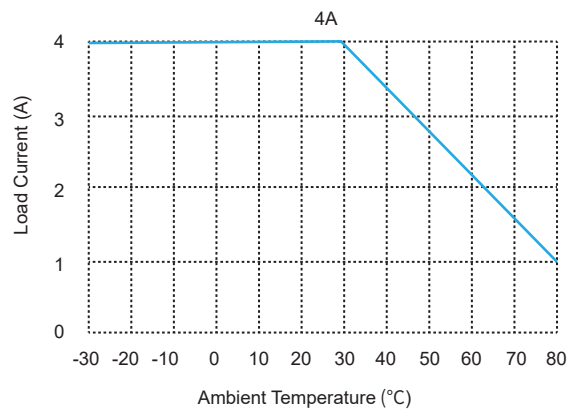
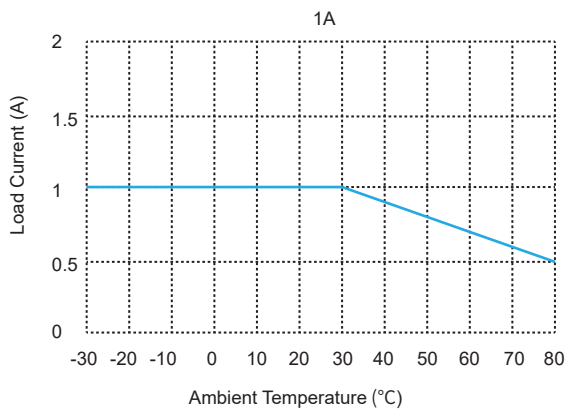


T Type Footprint

### Wiring Diagram



### Thermal Derating Curve



### General Notes

1. Soldering must be finished within 10 seconds at 260°C, or finished within 5 seconds at 350°C. Otherwise it may cause damage to the relay.
2. Terminal polarity must be observed. Otherwise it may cause damage to the relay.
3. When ambient temperature is above 25°C, the maximum load current decreases. See thermal derating curve.

### Agency Approvals (Certification)

