Product Description

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

Product Selection

KSCD	30	D	1	-12	T	(XXX)
KSCD Series	Load Voltage 30: 3~30VDC 60: 0~35VDC	DC Control	Load Current 1: 1Amp 4: 4Amp	Control Mode 5: 5VDC 12: 12VDC 24: 24VDC	Pin Layout Blank: Standard T: T Type Footprint	Customized Code

Available Part Numbers

Control Mode	Part Numbers			
	1A		4A	
5VDC	KSCD30D1-5	KSCD30D1-5T	KSCD60D4-5	KSCD60D4-5T
12VDC	KSCD30D1-12	KSCD30D1-12T	KSCD60D4-12	KSCD60D4-12T
24VDC	KSCD30D1-24	KSCD30D1-24T	KSCD60D4-24	KSCD60D4-24T

Technical 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)

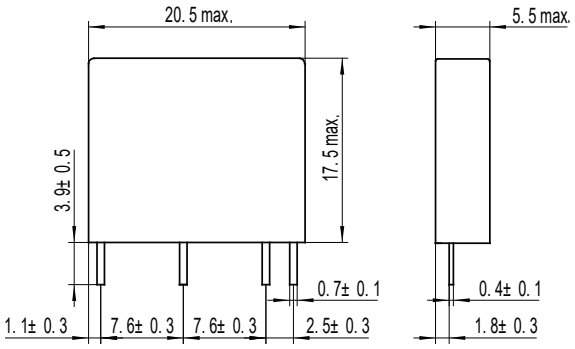
Output Specifications (Ta=25°C)		
Load Voltage Range	30VDC	3~30VDC
	60VDC	0~35VDC
Maximum Transient Overvoltage	30VDC	30Vpk
	60VDC	70Vpk
Load Current Range	1A	0.02~1A
	4A	0.02~4A
Maximum Surge Current (@10ms)	1A	4Apk
	4A	20Apk
Maximum On-State Voltage Drop (@Rated Current)	30VDC	1.5V
	60VDC	0.5V
Maximum 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℃ ~ +80℃
Storage Temperature Range	-30℃ ~ +100℃
Weight (Typical)	3g

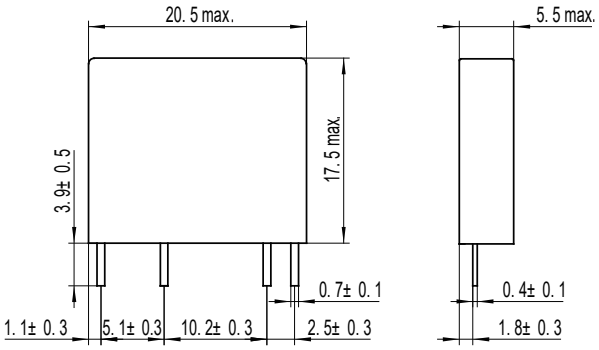
Applications

Suitable for small power DC loads, such as DC motor, power supplies, valves, etc.

Outline Dimensions

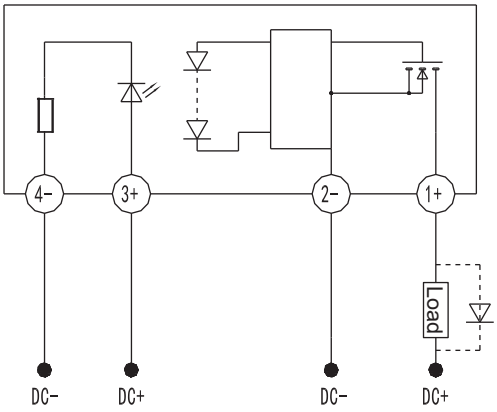


Standard Footprint

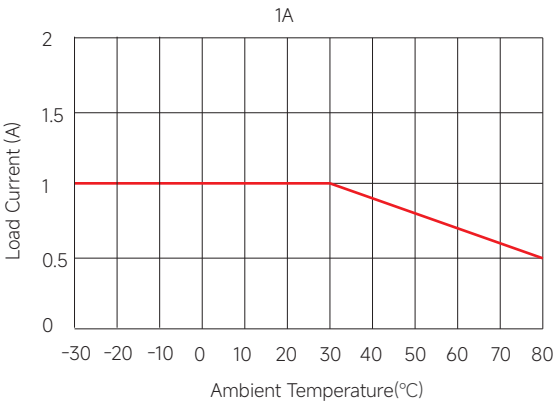


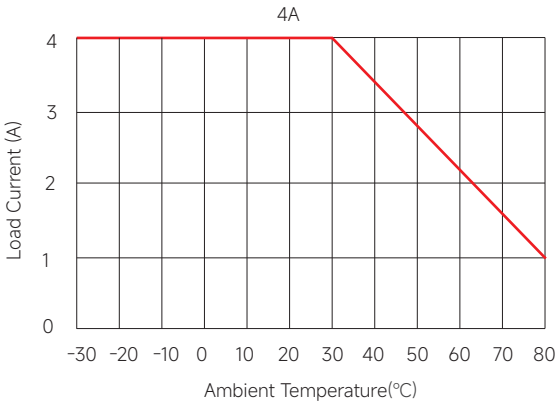
T Type Footprint

Wiring Diagram



Thermal Derating Curve





General Notes

1. Soldering must be finished within 10 seconds at 260℃,or finished within 5 seconds at 350℃. 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℃, the maximum load current decreases. See thermal derating curve.
4. Capacitive load will produce very high surge current at the moment of conduction, which may lead to the damage of solid state relay due to the excessive surge current. Therefore, if the actual load is capacitive, or the load has parallelled large capacitance, it is strongly recommended that NTC should be connected in series in the load loop to suppress surge current in order to avoid damage to the product.

! Warnings

1. The product's side panels may be hot, allow the product to cool before touching.
2. Disconnect all power before installing or working with this equipment.
3. Verify all connections and replace all covers before turning on power.