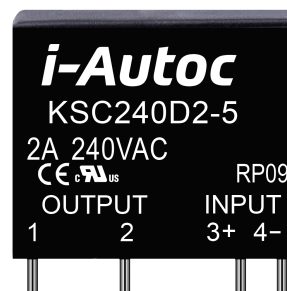


Product Description

- ◆ Optical Isolation SSR
- ◆ TRIAC Output
- ◆ Control Current: 10mA
- ◆ Control Voltage: 5VDC, 12VDC, 24VDC
- ◆ Load Current: 1A, 2A
- ◆ Dielectric Strength: 2500Vrms
- ◆ PCB Mounted
- ◆ RoHS Compliant



Product Selection

KSC	240	D	2	R	-24	T	(XXX)
KSC Series	Load Voltage 240: 240VAC	DC Control	Load Current 1: 1Amp 2: 2Amp	Switching Mode Blank: Zero Crossing R: Random-on	Control Mode 5: 5VDC 12: 12VDC 24: 24VDC I: 10mA	Pin Layout Blank: Standard T: T Type Footprint	Customized Code

Available Part Numbers

Control Mode	Part Numbers			
	1A		2A	
5VDC	KSC240D1-5	KSC240D1R-5	KSC240D2-5	KSC240D2R-5
	KSC240D1-5T	KSC240D1R-5T	KSC240D2-5T	KSC240D2R-5T
12VDC	KSC240D1-12	KSC240D1R-12	KSC240D2-12	KSC240D2R-12
	KSC240D1-12T	KSC240D1R-12T	KSC240D2-12T	KSC240D2R-12T
24VDC	KSC240D1-24	KSC240D1R-24	KSC240D2-24	KSC240D2R-24
	KSC240D1-24T	KSC240D1R-24T	KSC240D2-24T	KSC240D2R-24T
10mA	KSC240D1-I	KSC240D1R-I	KSC240D2-I	KSC240D2R-I
	KSC240D1-IT	KSC240D1R-IT	KSC240D2-IT	KSC240D2R-IT

Technical Specifications

Input Specifications (Ta=25°C)		
Control Current Range	I	10~35mA
Control Voltage Range	5	4~6VDC
	12	9.6~14.4VDC
	24	19.2~28.8VDC
Must Turn-on Current	I	10mA
Must Turn-on Voltage	5	4VDC
	12	9.6VDC
	24	19.2VDC
Must Turn-off Current	I	1mA
Must Turn-off Voltage	5/12/24	1VDC
Maximum Input Current	5	25mA (@6VDC)
	12	25mA (@14.4VDC)
	24	25mA (@28.8VDC)

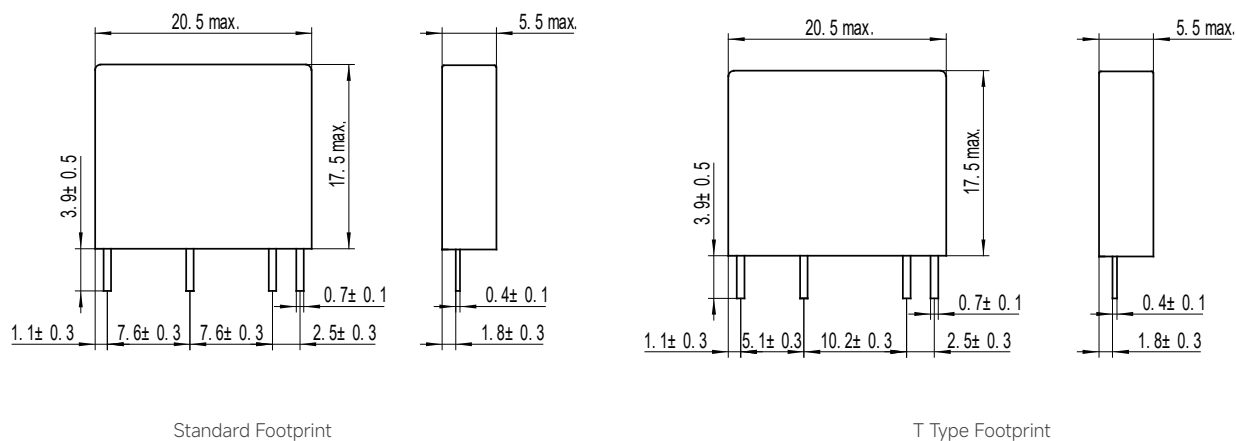
Output Specifications (Ta=25°C)		
Load Voltage Range		24~280VAC
Maximum Transient Overvoltage		600Vpk
Maximum Off-State Leakage Current (@Rated Load Voltage)		1.5mA
Minimum Off-State (dv/dt @Maximum Rated Voltage)		200V/μs
Load Current Range	1A	0.1~1A
	2A	0.1~2A
Maximum Surge Current (@10ms)	1A	25Apk
	2A	35Apk
Maximum I ² t for Fusing (@10ms)	1A	3.1A ² s
	2A	6.1A ² s
Maximum On-State Voltage Drop (@Rated Current)		1.5Vrms
Maximum Turn-on Time	Zero Crossing	1/2cycle+1ms
	Random-on	1ms
Maximum Turn-off Time		1/2cycle+1ms
Operational Frequency Range		47~63Hz
Minimum Power Factor		0.5

General Specifications (Ta=25°C)		
Dielectric Strength (50/60Hz)	Input/Output	2500Vrms
Minimum Insulation Resistance (@500VDC)		1000mΩ
Ambient Temperature Range		-30°C ~ +80°C
Storage Temperature Range		-30°C ~ +100°C
Weight (Typical)		3g

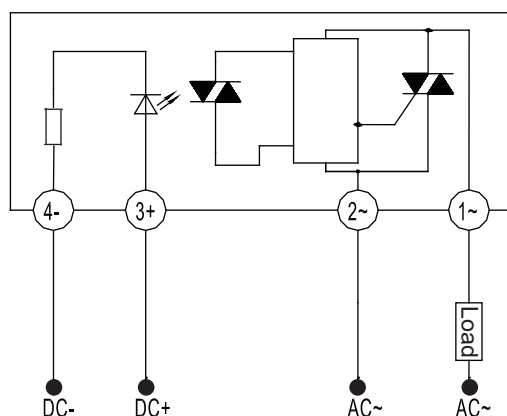
Applications

Suitable for small power loads, such as pumps, valves, and motors.

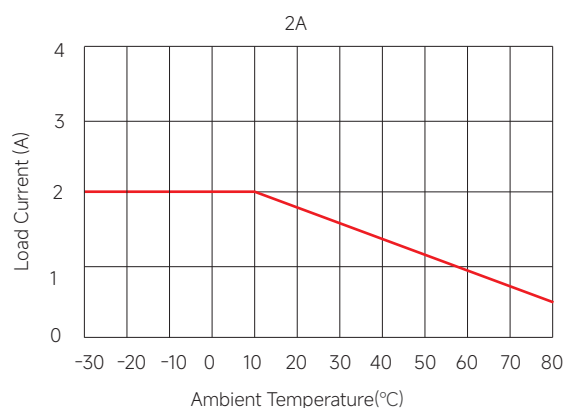
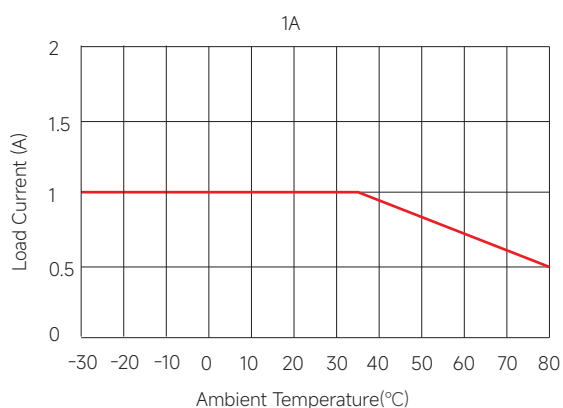
Outline Dimensions



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.

! 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.

Certification Standards

Certification	Test Standard
UL	UL508
CE	IEC EN60947