

Solid State Relay

KSC Series Single Phase AC Output

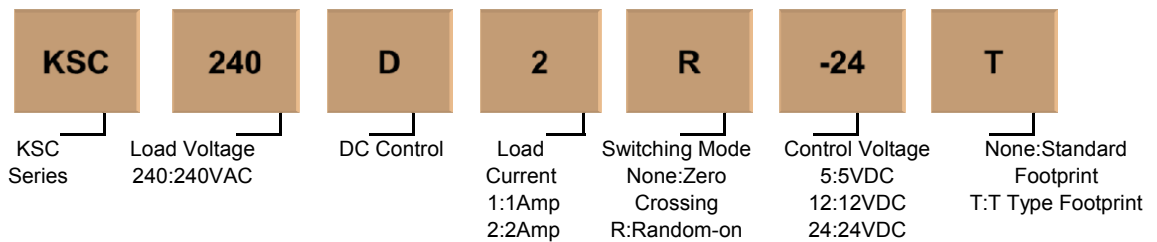


- Opto-isolation
- Load current:0.1A-2A @48-280VAC
- Control voltage:4-6VDC,9.6-14.4VDC,19.2-28.8VDC
- Dielectric strength 2500VACrms
- PCB mounted
- RoHS compliant

Product Description

KSC series is printed board mounted solid state relay. Small volume with high EMC and high inrush current capability, suitable for important industrial applications such as the control of electromagnetic valve, motor, incandescent lamp. Control voltage is 5VDC, 12VDC and 24VDC, opto-isolation between input and output, output is zero crossing and random-on.

Product Selection



Control Voltage	1 A	2A
4-6 VDC	KSC240D1-5	KSC240D2-5
	KSC240DR1-5	KSC240D2R-5
9.6-14.4 VDC	KSC240D1-12	KSC240D2-12
	KSC240D1R-12	KSC240D2R-12
19.2-28.8 VDC	KSC240D1-24	KSC240D2-24
	KSC240D1R-24	KSC240D2R-24

Technical Specification

Input Circuit

Control Voltage Range	5	4-6VDC
	12	9.6-14.4VDC
	24	19.2-28.8VDC
Minimum Turn-On Voltage	5	4VDC
	12	9.6VDC
	24	19.2VDC
Minimum Turn-Off Voltage		1.0VDC
Maximum Input Current		25mA

Output Circuit

Load Voltage Range	48-280VAC
Transient Overvoltage	600Vpk
Maximum Surge Current [@10 ms]	1A
	2A

Maximum Turn-On Time	Random-On	1ms
	Zero Crossing	1/2AC Cycle + 1ms
Maximum Turn-Off Time		1/2AC Cycle + 1ms
Load Current Range	1A	0.1~1A
	2A	0.1~2A
Maximum Off-State Leakage Current [@ Rated Voltage]		1.5mA
Maximum On-State Voltage Drop [@ Rated Current]		1.5Vrms
Minimum Off-State dv/dt [@ Maximum Rated Voltage]		200V/ μ s

General Information

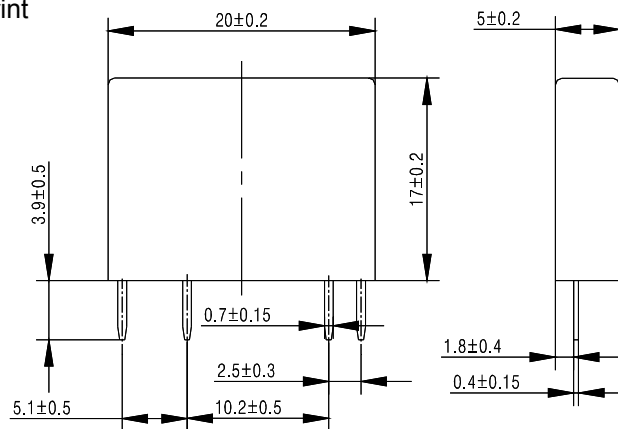
Dielectric Strength, Input/Output[50/60Hz]	≥ 2500 Vrms
Ambient Operating Temperature Range	-30 $^{\circ}$ C ~ +80 $^{\circ}$ C
Ambient Storage Temperature Range	-30 $^{\circ}$ C ~ +100 $^{\circ}$ C
Weight [typical]	3g

Application

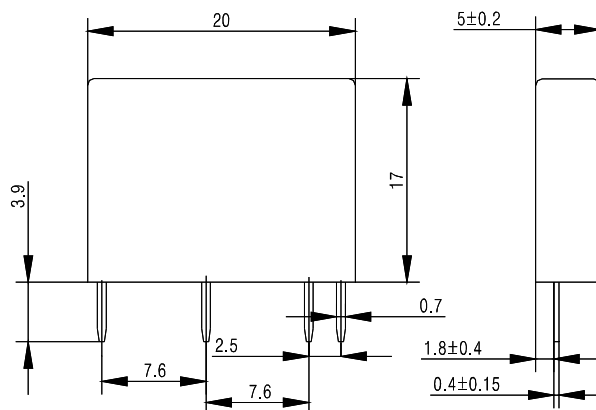
Suitable for the control of electromagnetic valve, motor and incandescent lamp.

Installation

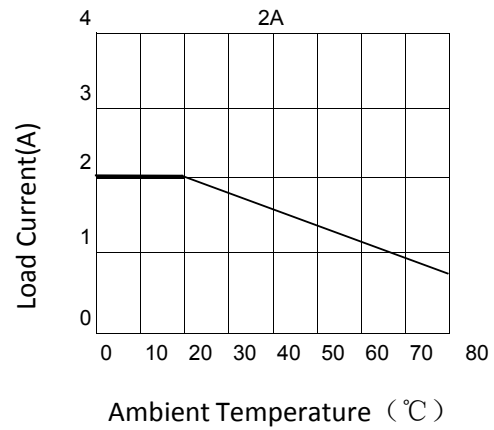
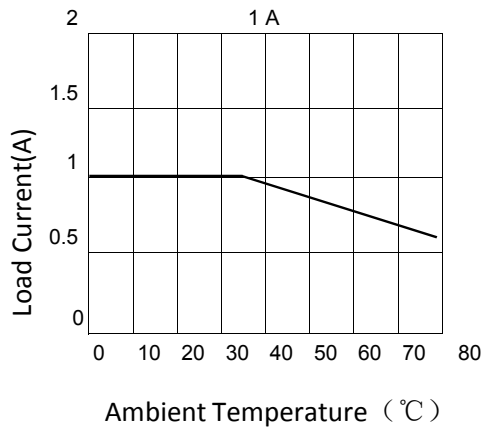
a) Standard Footprint



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.

Product Certification



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