

Solid State Relay

KSA Series Single Phase AC Output

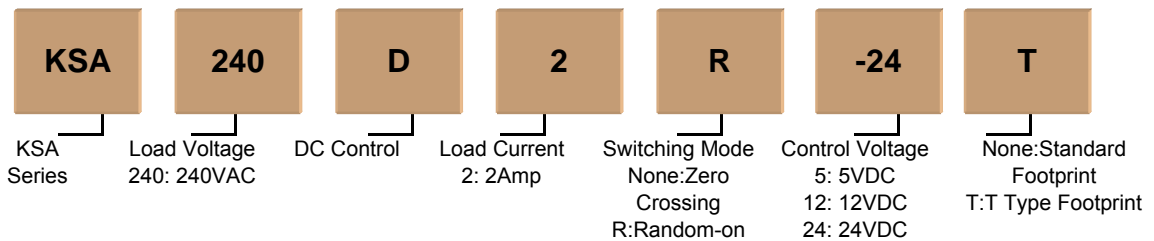


- TTL Compatible Drive
- Load Current:0.1A-2A @ 24-280VAC
- Control Voltage:5VDC, 12VDC, 24VDC
- Dielectric Strength:2500VACrms
- PCB Mounted
- RoHS Compliant

Product Description

The KSA series is printed board mounted AC output solid state relay. Small volume with high surge current ability. Suitable for control electromagnetic valve, electric machine, filament lamp etc. The control input voltage is 5VDC, 12VDC and 24VDC. Opto-isolation between input and output, output is AC output random-on and AC output zero crossing.

Product Selection



Description	2A	
5VDC	KSA240D2-5	KSA240D2-5T
	KSA240D2R-5	KSA240D2R-5T
12VDC	KSA240D2-12	KSA240D2-12T
	KSA240D2R-12	KSA240D2R-12T
24VDC	KSA240D2-24	KSA240D2-24T
	KSA240D2R-24	KSA240D2R-24T

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		20mA

Output Circuit

Load Voltage Range	24-280VAC
Transient Overvoltage	600Vpk

Maximum Surge Current [@10ms]		25A
Maximum Turn-on Time	Random-on	1ms
	Zero Crossing	10ms
Maximum Turn-off Time		10ms
Load Current Range		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/μs

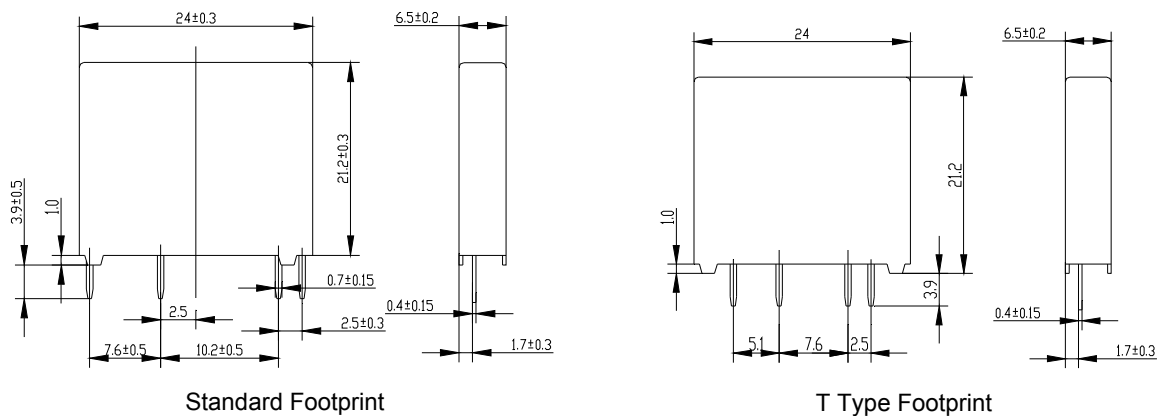
General Information

Dielectric Strength, Input/Output [50/60Hz]	≥2500Vrms
Insulation Resistance	1000MΩ(@500VDC)
Ambient Operating Temperature Range	-30°C ~ +80 °C
Ambient Storage Temperature Range	-30°C ~ +100 °C
Weight [Typical]	6 g

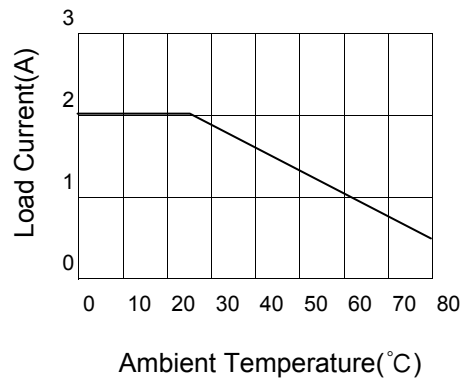
Application

Suitable for control electromagnetic valve, electric machine, filament lamp etc.

Installation



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. When the ambient temperature is over 25°C, load current performance will decline.

Product Certification

