

Solid State Relay

KSA Series Single Phase AC Output

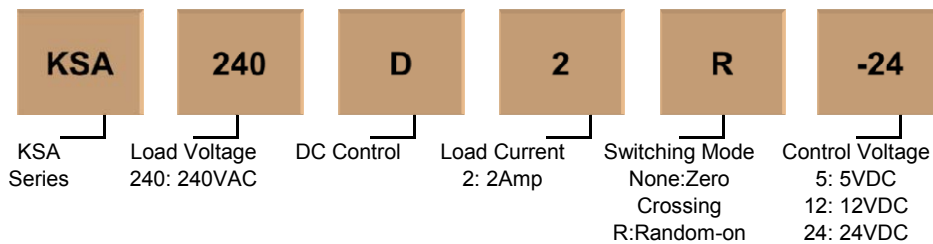


- TTL compatible drive
- Load current: 0.1A-2A @ 48-280VAC
- Control voltage: 4-6VDC, 9-15VDC, 19- 32VDC
- Dielectric strength: $\geq 2000\text{VACrms}$
- PCB mounted
- RoHS compliant

Product Description

The KSA series is printed board mounted AC output solid state relay. Small volume and built-in heatsink without affecting performance, 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-on.

Product Selection



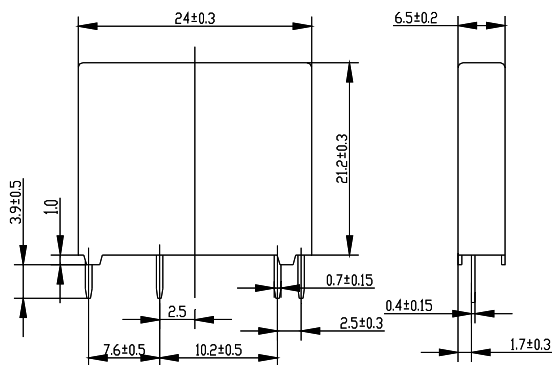
Description	2A	
4-6VDC	KSA240D2-5	KSA240D2-5T
	KSA240D2R-5	KSA240D2R-5T
9-15VDC	KSA240D2-12	KSA240D2-12T
	KSA240D2R-12	KSA240D2R-12T
19-32VDC	KSA240D2-24	KSA240D2-24T
	KSA240D2R-24	KSA240D2R-24T

Technical Specification

Input Circuit

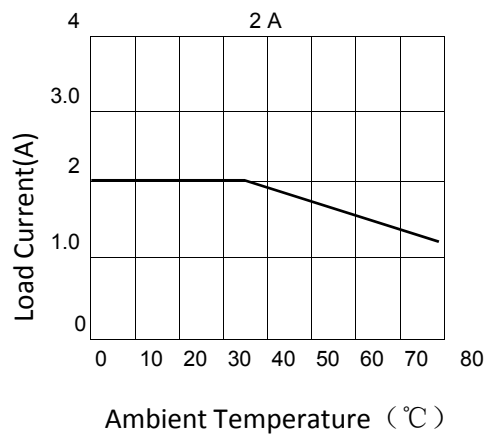
Control Voltage Range	5	4-6VDC
	12	9-15VDC
	24	19-32VDC
Minimum Turn-On Voltage	5	4VDC
	12	9VDC
	24	19VDC
Minimum Turn-Off Voltage		1.0VDC
Maximum Input Current		15mA

Output Circuit	
Load Voltage Range	48-280VAC
Transient Overvoltage	600Vpk
Maximum Surge Current [@10ms]	2A
	25A
Maximum Turn-On Time	Random-On
	Zero Crossing
	1ms
	1/2AC Cycle + 1ms
Maximum Turn-Off Time	DC Input
	1/2AC Cycle + 1ms
Load Current Range	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]	100V/μs
General Information	
Dielectric Strength, Input/Output/Base [50/60Hz]	≥2000Vrms
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	



Standard 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.
3. When the ambient temperature is over 40°C, load current performance will decline.

Product Certification

