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: ⩾2500VACrms**
- **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.Sutible for control electromagnetic valve,electric machine,filament lamp etc.The control input voltage is 5VDC,12VDC and 24VDC.Opto-isolation bettween input and output,output is AC output random-on and AC output zero-on.

Product Selection

KSA	240	D	2	R	-24	T
KSA Series	Load Voltage 240: 240VAC	DC Control	Load Current 2: 2Amp	Switching Mode None:Zero Crossing R:Random-on	Control Voltage 5: 5VDC 12: 12VDC 24: 24VDC	None:Standard Footprint T:T Type Footprint

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

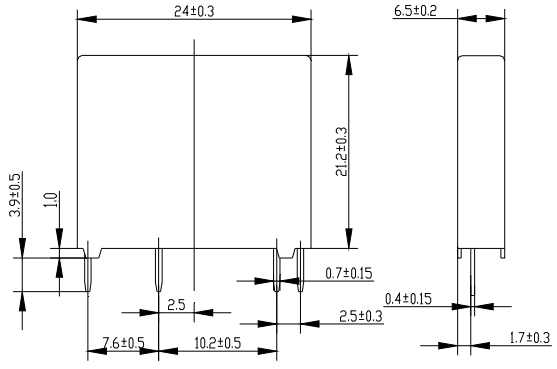
Control Voltage Range	5	4-6VDC
	12	9-15VDC
	24	19-32VDC
Minimum Turn-On Voltage	5	4VDC
	12	9VDC
	24	19VDC
Minimum Turn-Off Voltage		1.0VDC
Maximum Input Current		15mA

Output Circuit		
Load Voltage Range		48-280VAC
Transient Overvoltage		600Vpk
Maximum Surge Current [@10ms]	2A	25A
Maximum Turn-On Time	Random-On	1ms
	Zero Crossing	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]		1.3mA
Maximum On-State Voltage Drop [@ Rated Current]		1.4Vrms
Minimum Off-State dv/dt [@ Maximum Rated Voltage]		200V/μs
General Information		
Dielectric Strength, Input/Output [50/60Hz]		⩾2500Vrms
Ambient Operating Temperature Range		-30℃ ～ +80 ℃
Ambient Storage Temperature Range		-30℃ ～ +100 ℃
Weight [typical]		6 g

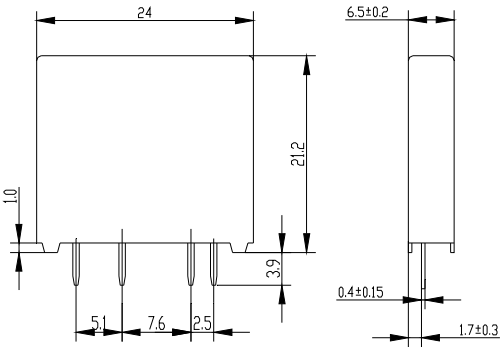
Application

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

Installation

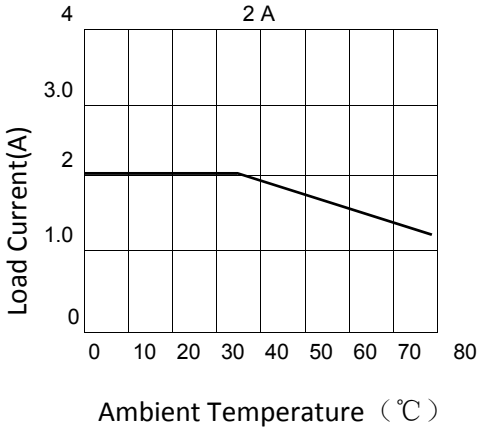


Standard Footprint



T Type Footprint

Thermal Curve



Important Notice

1. Solding must be finished within 10 seconds at 250℃,and finished within 5 seconds at 350℃.
2. Terminal polarity to ensure proper control, or may damage the product.
3. When the ambient temperature is over 40℃,load current performance will decline.

Product Certification