Solid State Relay (Single Phase AC Output)	KSA

eatures

- TTL compatible drive
- Load current: 0.1A-2A @24-280VAC
- Control voltage: 5VDC, 12VDC, 24VDC
- Dielectric strength: ≥2500VACrms
- PCB mounted
- RoHS compliant

1. DESCRIPTION

KSA series is printed board mounted AC output solid state relay. Small volume with high surge current ability. 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.

2. APPLICATION

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

3. IMPORTANT NOTICE

1) Soldering 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 25℃, load current performance will decline.

4. TECHNICAL SPECIFICATION

1) Input Circuit

Control Voltage Range	5VDC	4-6VDC
	12VDC	9.6-14.4VDC
	24VDC	19.2-28.8VDC
Minimum Turn-on Voltage	5VDC	4VDC
	12VDC	9.6VDC
	24VDC	19.2VDC
Minimum Turn-off Voltage		1.0VDC
Maximum Input Current		20mA

2) Output Circuit

Load Voltage Range		24-280VAC
Transient Overvoltage		600Vpk
Load Current Range		0.1-2A
Maximum Surge Current [@10ms]		25A
Maximum Turn-on Time	Random-on	1ms
	Zero Crossing	10ms
Maximum Turn-off Time		10ms
Maximum Off-state Leakage Current [@Rated Voltage]		1.5mA
Maximum On-state Voltage Drop [@Rated Voltage]		1.5Vrms
Minimum Off-state dv/dt [@Maximum Rated Voltage]		200V/μs

3) General Information

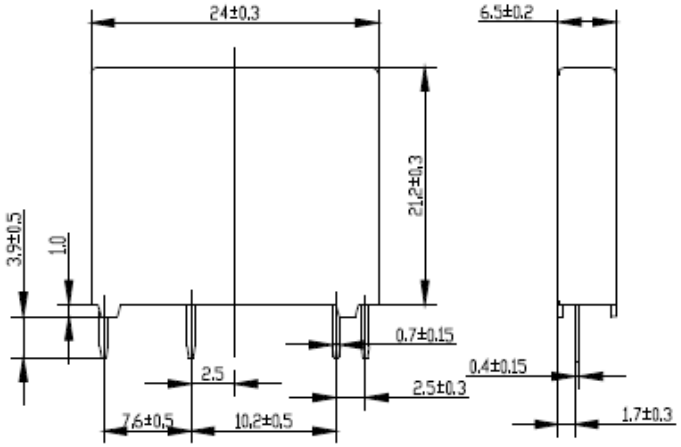
Dielectric Strength, Input/Output [50/60Hz]	≥2500VACrms
Insulation Resistance	1000MΩ [@500VDC]
Ambient Operating Temperature Range	-30℃ ~ +80℃
Ambient Storage Temperature Range	-30℃ ~ +100℃
Weight [Typical]	6g

5. ORDERING INFORMATION

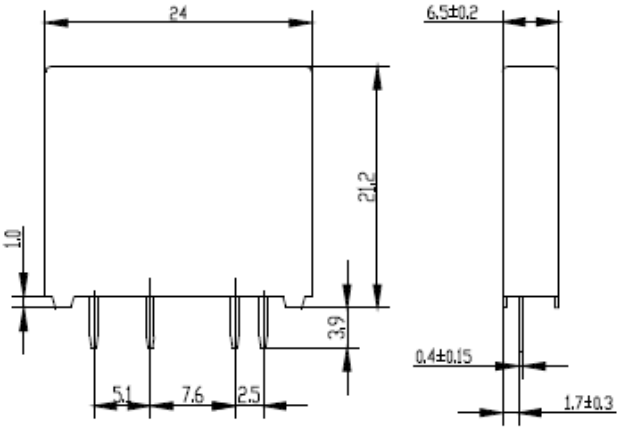
KSA ① 240 ② D ③ 2 ④ R ⑤ -24 ⑥ T ⑦

① Relay Model	KSA
② Load Voltage	240: 240VAC
③ Control	D: DC control
④ Load Current	2: 2Amp
⑤ Switching Mode	None: Zero crossing R: Random-on
⑥ Control Voltage	5: 5VDC 12: 12VDC 24: 24VDC
⑦ Footprint	None: Standard footprint T: T type footprint

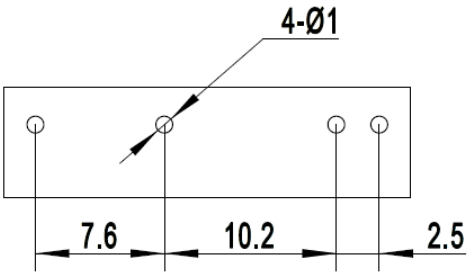
6. INSTALLATION

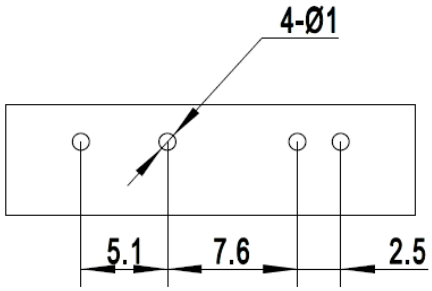


Standard Footprint

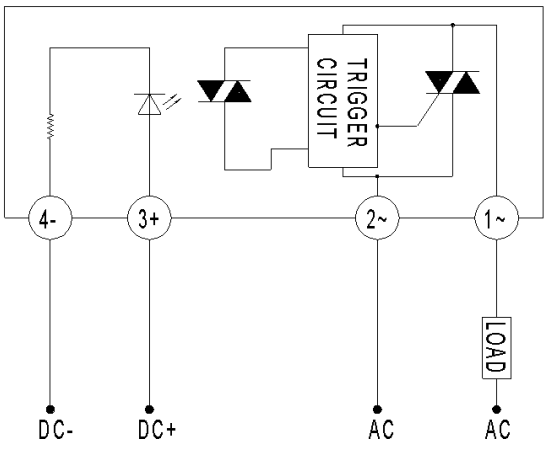


T Type Footprint





7. WIRING DIAGRAM



8. THERMAL CURVE