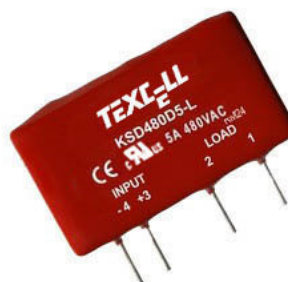


Solid State Relay (Single Phase AC Output)

KSD

Features

- Ratings from 0.1A to 5A @48-530VAC
- Control voltage: 4-15VDC, 15-32VDC, 4-32VDC
- PCB mounted
- Opto-isolation: $\geq 4000\text{VACrms}$
- High EMC capability
- High inrush current
- RoHS compliant



1. DESCRIPTION

KSD series is 5A printed board mounted solid state relay. Control voltage is 4-15VDC, 15-32VDC, and 4-32VDC. Opto-isolation is 4000VACrms. High EMC and high inrush current capability,

2. APPLICATION

Suitable for important industrial applications such as lighting control, motor control, ATM, medical device, elevator, oiling machine, solenoid valve control and auto door.

3. IMPORTANT NOTICE

- 1) Soldering must be finished within 10 seconds at 260℃, and finished within 5 seconds at 350℃.
- 2) Terminal polarity to ensure proper control, or may damage the product.

4. TECHNICAL SPECIFICATION

1) Input Circuit

Control Voltage Range	L	4-15VDC
	H	15-32VDC
	W	4-32VDC
Minimum Turn-on Voltage	L	4VDC
	H	15VDC
	W	4VDC
Minimum Turn-off Voltage		1VDC
Maximum Input Current	L	25mA
	H	40mA
	W	20mA

2) Output Circuit

Load Voltage Range	240VAC	48-280VAC
	380VAC	48-440VAC
	480VAC	48-530VAC
Transient Overvoltage	240VAC	600Vpk
	380VAC	800Vpk
	480VAC	1200Vpk
Load Current Range	3A	0.1-3A
	5A	0.1-5A
Maximum Surge Current [@10ms]	3A	120A
	5A	200A
Maximum Turn-on Time	Random-on	1ms
	Zero crossing	1/2AC Cycle + 1ms
Maximum Turn-off Time		1/2AC Cycle + 1ms
Maximum Off-state Leakage Current [@Rated Voltage]		1mA
Maximum On-state Voltage Drop [@Rated Current]		1.5Vrms
Minimum Off-state dv/dt [@Maximum Rated Voltage]		200V/ μ s

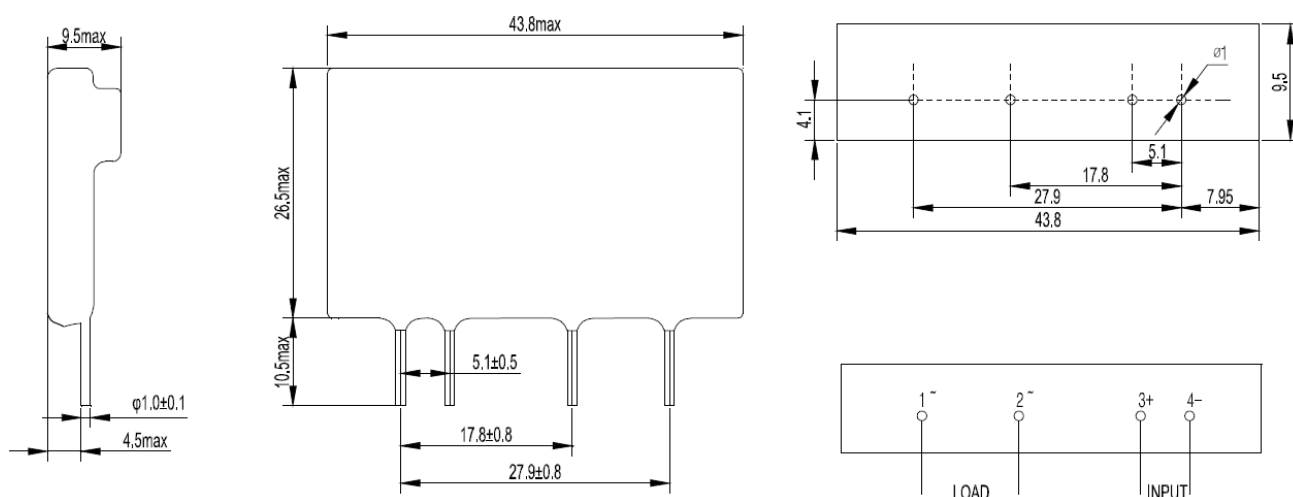
3) General Information

Dielectric Strength, Input/Output [50/60Hz]	≥ 4000 VACrms
Ambient Operating Temperature Range	-30°C ~ +80°C
Ambient Storage Temperature Range	-30°C ~ +100°C
Weight [Typical]	16g

5. ORDERING INFORMATION

<u>KSD</u> ①	<u>380</u> ②	<u>D</u> ③	<u>5</u> ④	<u>R</u> ⑤	<u>-L</u> ⑥
① Relay Model	KSD				
② Load Voltage	240: 240VAC 380: 380VAC 480: 480VAC				
③ Control	D: DC control				
④ Load Current	3: 3Amp 5: 5Amp				
⑤ Switching Mode	None: Zero crossing R: Random-on				
⑥ Control Voltage	L: 4-15VDC H: 15-32VDC W: 4-32VDC				

6. INSTALLATION



7. THERMAL CURVE

