

Solid State Relay

KSD Series Single Phase AC Output



- Ratings from 0.1A to 5A @ 48-530VAC
- Control voltage: 4-15VDC, 15-32VDC, 4-32VDC
- PCB mounted
- Opto-isolation: > 4000VACrms
- High EMC capability
- High inrush current
- ROHS complint

Product Description

KSD series is 5A printed board mounted solid state relay. Control voltage is 4-15VDC, 15-32VDC, 4-32VDC. opto-isolation is 4000VACrms. High EMC and high inrush current capability, suitable for important industrial applications such as lighting control, motor control, ATM, medical device, elevator, and auto door.

Product Selection

KSD	380	D	5	R	-L/H/W
KSD Series	Load Voltage 240:240VAC 380:380VAC 480:480VAC	Control Voltage D:DC Control	Load Current 3:3Amp 5:5Amp	Switching Mode None:Zero crossing R:Random-on	Other L:4-15VDC H:15-32VDC W:4-32VDC

Description	3A		5A	
L:4-15VDC	KSD240D3-L	KSD240D3R-L	KSD240D5-L	KSD240D5R-L
	KSD380D3-L	KSD380D3R-L	KSD380D5-L	KSD380D5R-L
	KSD480D3-L	KSD480D3R-L	KSD480D5-L	KSD480D5R-L
H:15-32VDC	KSD240D3-H	KSD240D3R-H	KSD240D5-H	KSD240D5R-H
	KSD380D3-H	KSD380D3R-H	KSD380D5-H	KSD380D5R-H
	KSD480D3-H	KSD480D3R-H	KSD480D5-H	KSD480D5R-H
W:4-32VDC	KSD240D3-W	KSD240D3R-W	KSD240D5-W	KSD240D5R-W
	KSD380D3-W	KSD380D3R-W	KSD380D5-W	KSD380D5R-W
	KSD480D3-W	KSD480D3R-W	KSD480D5-W	KSD480D5R-W

Technical Specification

Input Circuit

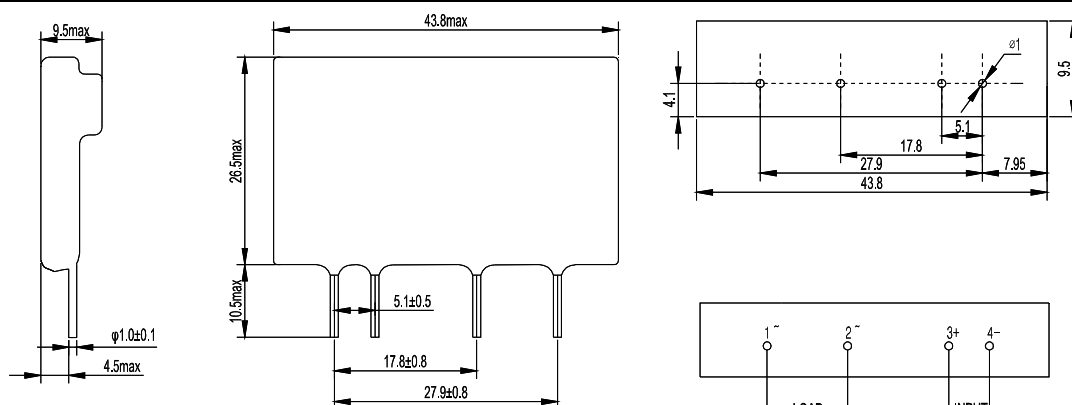
Control Voltage Range	-L	4-15VDC
	-H	15-32VDC
	-W	4-32VDC
Minimum Turn-On Voltage	-L	4VDC
	-H	15VDC
	-W	4VDC
Minimum Turn-Off Voltage		1VDC

Maximum Input Current	-L	25mA
	-H	40mA
	-W	20mA
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 Turn-On Time	Random-On	1ms
	Zero Crossing	1/2AC Cycle + 1ms
Maximum Turn-Off Time		1/2AC Cycle + 1ms
Maximum Surge Current [@10 ms]	3A	120A
	5A	200A
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/μs
General Information		
Dielectric Strength, Input/Output (50/60Hz)		≥4000Vrms
Ambient Operating Temperature Range		-30°C ~ +80°C
Ambient Storage Temperature Range		-30°C ~ +100°C
Weight (typical)		16g

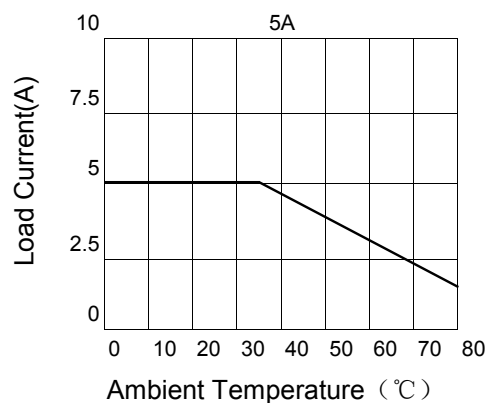
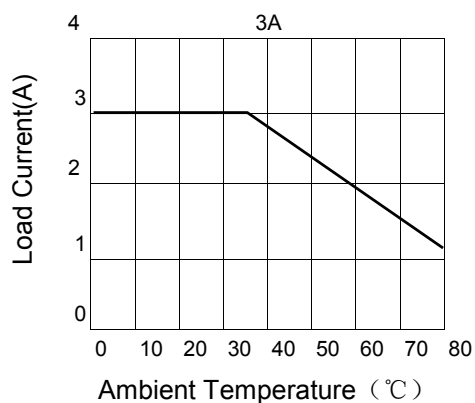
Application

Suitable for oiling machine, solenoid valve control.

Installation



Thermal Curve



Important Notice

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

Product Certification

