

Solid State Relay KSD(037) Series Single Phase AC Output



- Zero crossing or random-on switching
- Ratings from 3A,5A @ 48-530VAC
- Control voltage: 4-15VDC, 15-32VDC, 4-32VDC
- Opto-isolation: > 4000VACrms
- RoHS compliant

Product Description

KSD(037) series is PCB mounted solid state relay. Load current is 3A,5A, including zero cross and random-on switching control. Control voltage is 4-15VDC, 15-32VDC, 4-32VDC. opto-isolation is 4000VACrms. High inrush current capability, suitable for important industrial applications such as lighting control, motor control, medical device, elevator.

Product Selection

KSD	380	D	5	R	-L/H/W	037
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	Customized

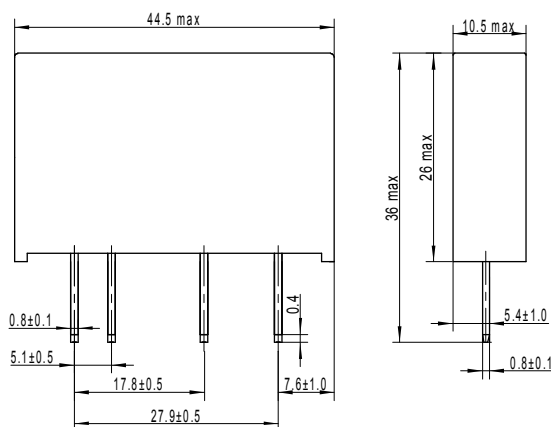
Description	3A		5A	
L:4-15VDC	KSD240D3-L(037)	KSD240D3R-L(037)	KSD240D5-L(037)	KSD240D5R-L(037)
	KSD380D3-L(037)	KSD380D3R-L(037)	KSD380D5-L(037)	KSD380D5R-L(037)
	KSD480D3-L(037)	KSD480D3R-L(037)	KSD480D5-L(037)	KSD480D5R-L(037)
H:15-32VDC	KSD240D3-H(037)	KSD240D3R-H(037)	KSD240D5-H(037)	KSD240D5R-H(037)
	KSD380D3-H(037)	KSD380D3R-H(037)	KSD380D5-H(037)	KSD380D5R-H(037)
	KSD480D3-H(037)	KSD480D3R-H(037)	KSD480D5-H(037)	KSD480D5R-H(037)
W:4-32VDC	KSD240D3-W(037)	KSD240D3R-W(037)	KSD240D5-W(037)	KSD240D5R-W(037)
	KSD380D3-W(037)	KSD380D3R-W(037)	KSD380D5-W(037)	KSD380D5R-W(037)
	KSD480D3-W(037)	KSD480D3R-W(037)	KSD480D5-W(037)	KSD480D5R-W(037)

Technical Specification

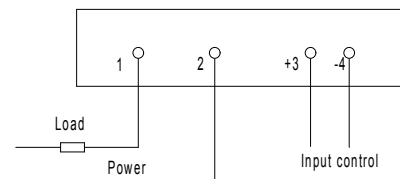
Input Circuit

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	250A
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]		200V/ μ s
General Information		
Dielectric Strength, Input/Output (50/60Hz)		≥ 4000 Vrms
Ambient Operating Temperature Range		-30 $^{\circ}$ C ~ +80 $^{\circ}$ C
Ambient Storage Temperature Range		-30 $^{\circ}$ C ~ +100 $^{\circ}$ C
Weight (typical)		16g
Application		
Lighting control, Motor control, Medical device, Elevator		
Installation(mm)		

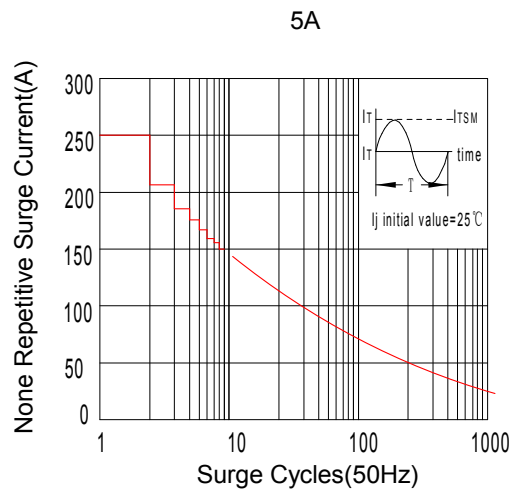
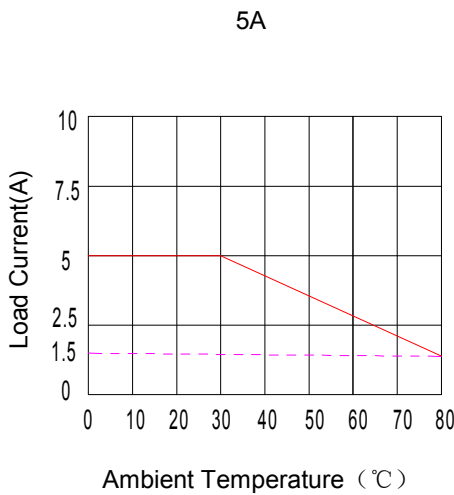
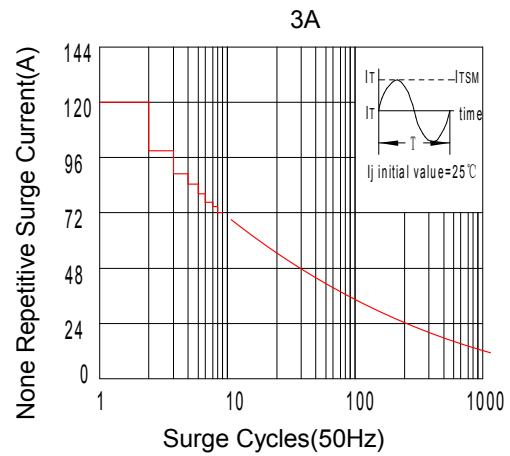
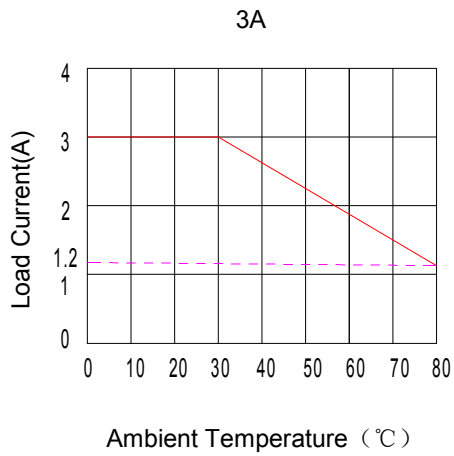


Outline Dimensions



Wiring Diagram

Thermal Curve



Important Notice

1. Soldering must be finished within 10 seconds at 260°C, and finished within 5 seconds at 350°C.
2. To ensure proper control on the terminal polarity, else it may damage the product.
3. Because the relay is a kind of power device, please take full account of the heat dissipation during usage. Please reduce the rated load when working under high temperature.

Product Certification



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