

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

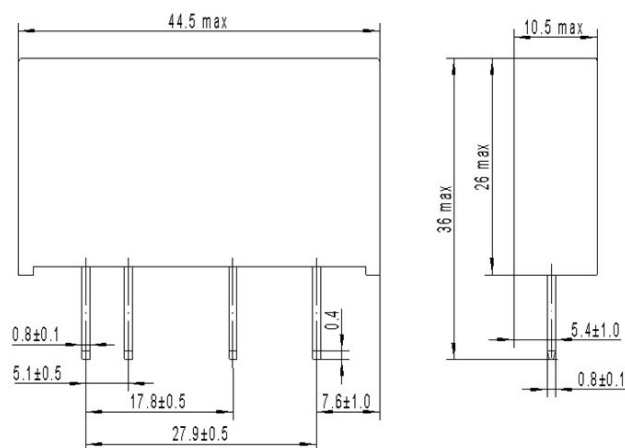
Description	3A		5A	
L:4-15VDC	KSD240D3-L(037)	KSD240D3R-L(037)	KSD240D5-L(037)	KSD240D5R-L(037)
	KSD380D3-L(037)	KSD380D3R-L(037)	KSD380D5-L(037)	KSD380D5R-L(037)
	KSD480D3-L(037)	KSD480D3R-L(037)	KSD480D5-L(037)	KSD480D5R-L(037)
H:15-32VDC	KSD240D3-H(037)	KSD240D3R-H(037)	KSD240D5-H(037)	KSD240D5R-H(037)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

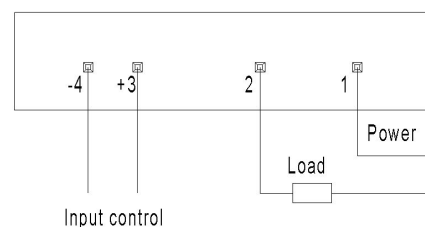
Input Circuit

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		25mA

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/μs
General Information		
Dielectric Strength, Input/Output (50/60Hz)		4000Vrms
Ambient Operating Temperature Range		-30 ~ +80
Ambient Storage Temperature Range		-30 ~ +100
Weight (Typical)		16g
Application		
Lighting control, Motor control, Medical device, Elevator		
Installation(mm)		

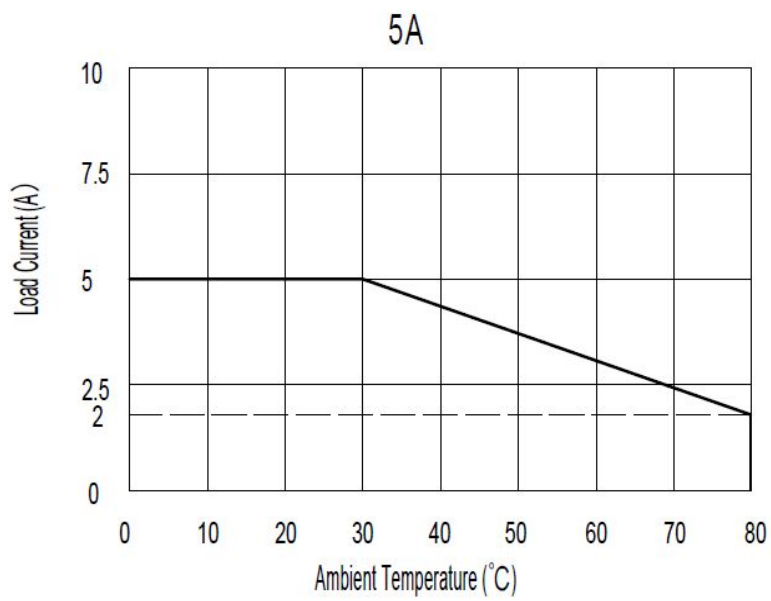
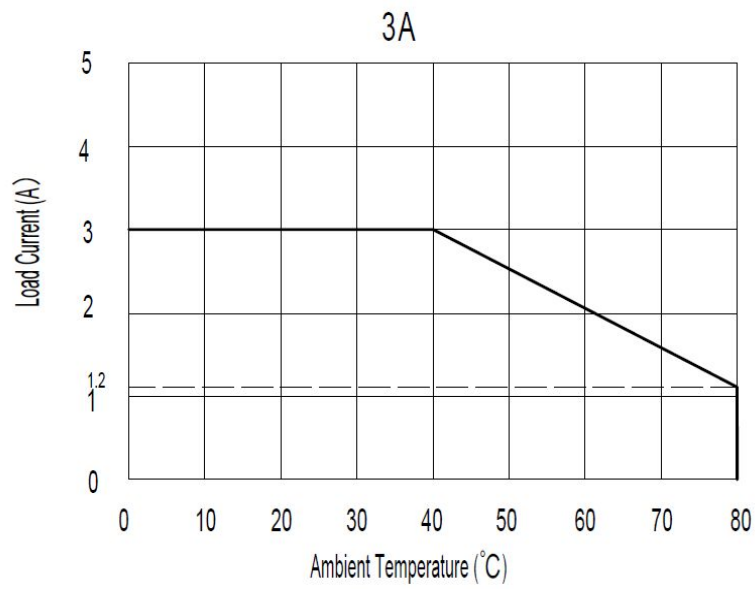


Outline Dimensions



Wiring Diagram

Thermal Curve



Important Notice

1. Soldering must be finished within 10 seconds at 260 , and finished within 5 seconds at 350 .
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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