Solid State Relay (Single Phase DC Output)	KSGD

Features

- Opto-isolation
- Load current: 5A@48VDC
- Control voltage: 5VDC, 12VDC, 24VDC
- Dielectric strength: ≥2500VACrms
- Low on impedance
- RoHS compliant

1. DESCRIPTION

KSGD series is printed board mounted solid state relay. Load current is 2~5A. Control voltage is 5VDC, 12VDC and 24VDC. Isolation voltage is 2500VACrms.

2. APPLICATION

Suitable for DC motor, electromagnetic valve and the electromagnetic control.

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 35℃, 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		15mA

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2) Output Circuit

Load Voltage Range	24VDC	0-28.8VDC
	48VDC	0-57.6VDC
Load Current Range	2A	0.02-2A
	3A	0.02-3A
	4A	0.02-4A
	5A	0.02-5A
Maximum Surge Current [@10ms]		96A
Maximum Turn-on Time		300μs
Maximum Turn-off Time		300μs
Maximum Off-state Leakage Current [@Rated Voltage]		0.1mA
Maximum On-state Voltage Drop [@Rated Current]		0.2VDC

3) General Information

Dielectric Strength, Input/Output [50/60Hz]	≥2500VACrms
Ambient Operating Temperature Range	-30℃ ~ +80℃
Ambient Storage Temperature Range	-30℃ ~ +100℃
Weight [Typical]	15g

5. ORDERING INFORMATION

KSGD ① 48 ② D ③ 2 ④ -12 ⑤

① Relay Model	KSGD
② Load Voltage	24: 24VDC 48: 48VDC
③ Control	D: DC control
④ Load Current	2: 2Amp 3: 3Amp 4: 4Amp 5: 5Amp
⑤ Control Voltage	5: 5VDC 12: 12VDC 24: 24VDC

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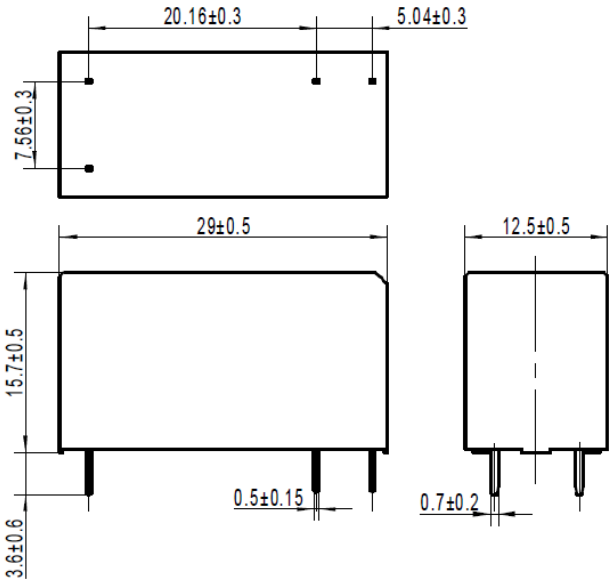
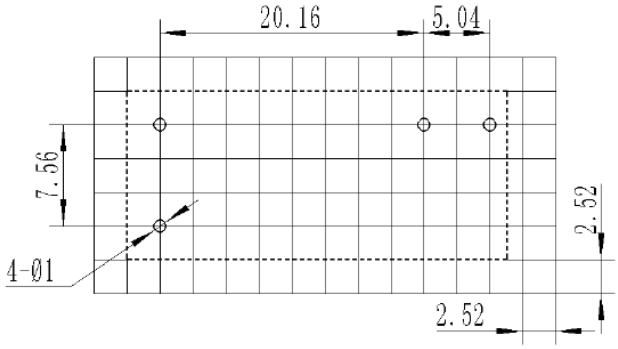
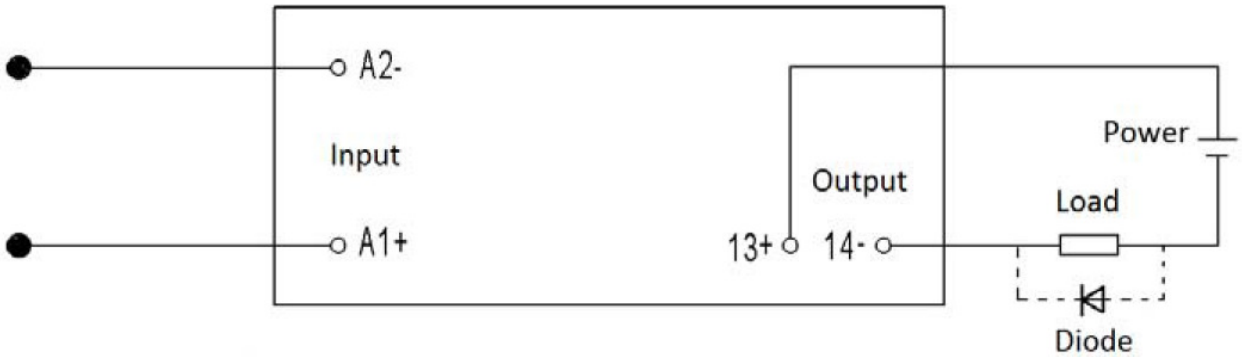
6. INSTALLATION

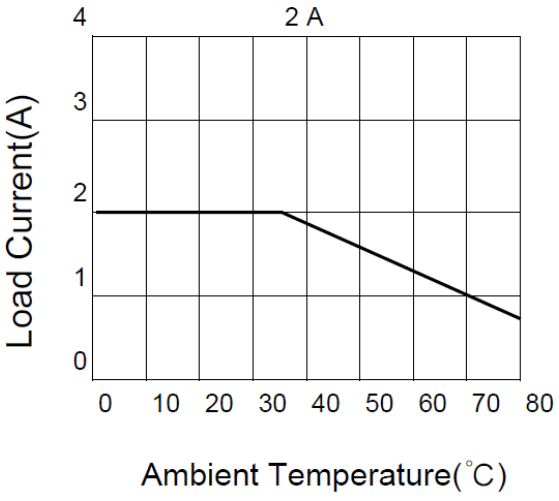


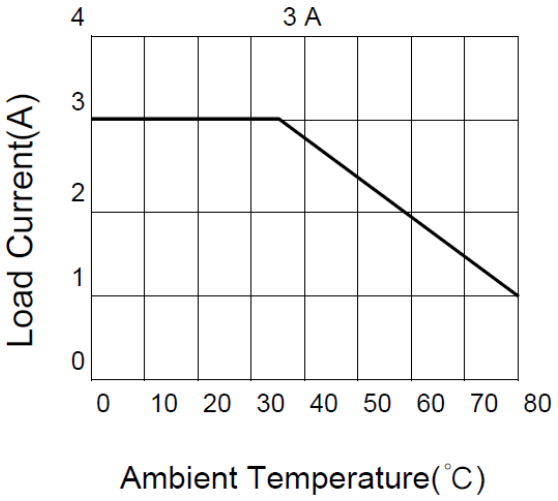


7. WIRING DIAGRAM



8. THERMAL CURVE





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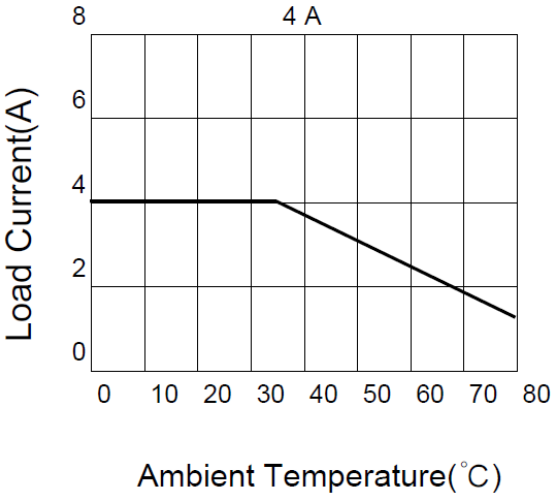

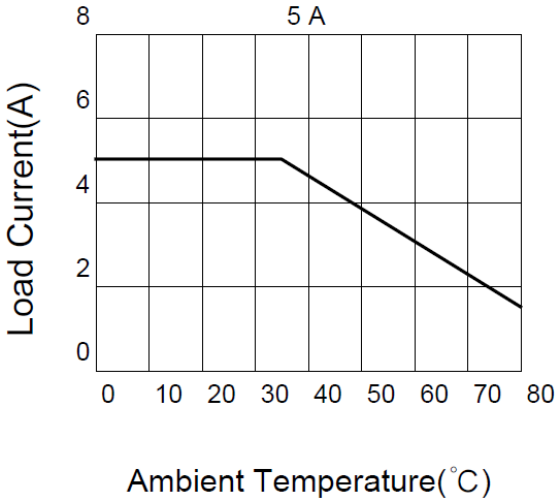

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