	24VDC	19.2-28.8VDC
Minimum Turn-on Voltage	5VDC	4VDC
	12VDC	9.6VDC
	24VDC	19.2VDC
Minimum Turn-off Voltage		1VDC
Maximum Input Current		20mA

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Solid State Relay (Single Phase AC Output)

Features

- Zero crossing or random-on switching
- Load current: 2A@24-440VAC
- Control voltage: 5VDC, 12VDC, 24VDC
- Opto-isolation: ≥4000VACrms
- Internal RC protection circuit
- RoHS compliant

1. DESCRIPTION

KSG series is printed board mounted solid state relay. Load current is 2A including zero crossing and random-on switching control. The control voltage is 5VDC, 12VDC and 24VDC. Opto-isolation is 4000VACrms.

2. APPLICATION

1) Input Circuit

Suitable for important industrial applications such as valve control and motor control.

3. IMPORTANT NOTICE

- 1) Soldering must be finished within 10 seconds at 260 $^{\circ}$ C, and finished within 5 seconds at 350 $^{\circ}$ C.
- 2) Terminal polarity to ensure proper control, or 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.

4. TECHNICAL SPECIFICATION

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		1VDC
Maximum Input Current		20mA



KSG



2) Output Circuit

Load Voltage Range	240VAC	24-280VAC
	380VAC	24-440VAC
Maximum Transient Voltage	240VAC	600Vpk
	380VAC	800Vpk
Load Current Range		0.1-2A
Maximum Surge Current [@10ms]		80A
Maximum Turn-on Time	Random-on	1ms
	Zero Crossing	10ms
Maximum Turn-off Time		10ms
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

3) General Information

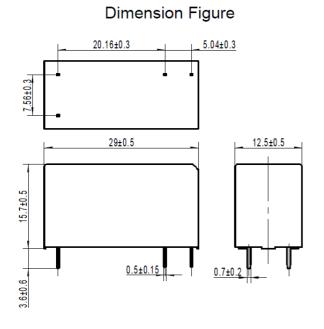
Dielectric Strength, Input/Output [50/60Hz]	≥4000VACrms
Ambient Operating Temperature Range	-30 ℃ ~+80 ℃
Ambient Storage Temperature Range	-30℃ ~+100℃
Weight [Typical]	15g

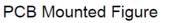
5. ORDERING INFORMATION

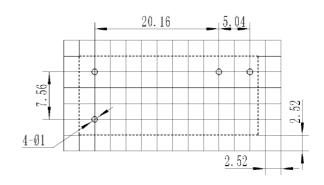
KSG 240 D 2 R -5 ① ② ③ ④ 5 ⑥	
① Relay Model	KSG
② Load Voltage	240: 240VAC
	380: 380VAC
③ Control	D: DC control
④ Load Current	2: 2Amp
5 Switching Mode	None: Zero crossing
	R: Random-on
	5: 5VDC
6 Control Voltage	12: 12VDC
	24: 24VDC



6. INSTALLATION



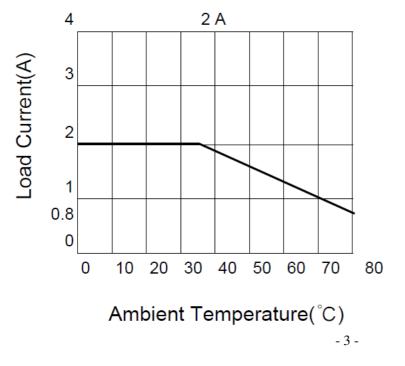




Wiring Method



7. THERMAL CURVE



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