

- ◆ TRIAC Output
- ◆ Control Voltage: 5VDC, 12VDC, 24VDC
- ◆ Load Current: 3A
- ◆ Dielectric Strength: 4000Vrms
- ◆ RoHS Compliant



### Ordering Information

<b>KSG3R</b>	<b>380</b>	<b>D</b>	<b>3</b>	<b>R</b>	<b>-5</b>	<b>D</b>	<b>(XXX)</b>
KSG3R Series	Load Voltage 240: 240VAC 380: 380VAC	D: DC Control	Load Current 2: 2Amp 3: 3Amp	Switching Mode Blank: Zero Crossing R: Random-on	5: 5VDC 12: 12VDC 24: 24VDC	Blank: without socket D: with socket	Customized Code

### General Specifications

Input Specifications (Ta=25°C)		
Control Voltage Range	-5	4-6VDC
	-12	9.6-14.4VDC
	-24	19.2-28.8VDC
Must Turn-On Voltage	-5	4VDC
	-12	9.6VDC
	-24	19.2VDC
Must Turn-Off Voltage	1VDC	
Maximum Input Current	-5	25mA (@6VDC)
	-12	25mA (@14.4VDC)
	-24	25mA (@28.8VDC)
Output Specifications (Ta=25°C)		
Load Voltage Range	240VAC	24-280VAC
	380VAC	24-440VAC
Maximum Transient Overvoltage	240VAC	600Vpk
	380VAC	800Vpk
Load Current Range	2A	0.1 - 2A
	3A	0.1 - 3A

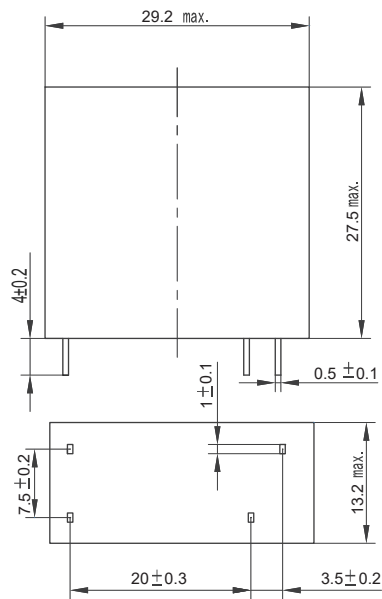
Maximum 1 Cycle Surge Current (50Hz)	2A 3A	80A 120A
Maximum Turn-On Time	Random-on Zero Crossing	1ms 1/2cycle+1ms
Maximum Turn-Off Time	1/2cycle+1ms	
Maximum Off-State Leakage Current@Rated Load Voltage	5mA	
Maximum On-State Voltage Drop@Rated Current	1.5Vrms	
Minimum Off-State dv/dt@Maximum Rated Voltage	200V/μs	

General Specifications (Ta=25°C)		
Dielectric Strength (50/60Hz)	4000Vrms	
Minimum Insulation Resistance (@500VDC)	1000MΩ	
Ambient Temperature Range	-30°C ~ +80°C	
Storage Temperature Range	-30°C ~ +100°C	
Weight (Typical)	without socket	18g
	with socket	55g

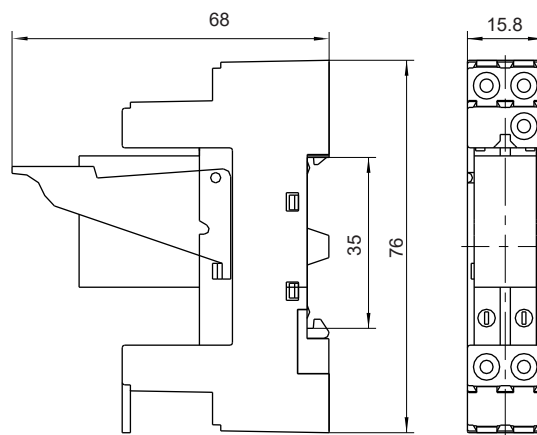
### Applications

Suitable for electromagnetic devices, intelligent instrument, and etc.

### Outline Outline Dimensions

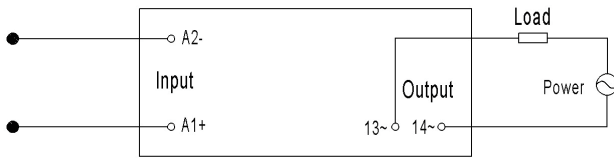


without socket

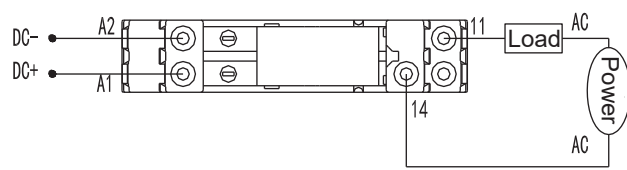


with socket

## Wiring Diagram

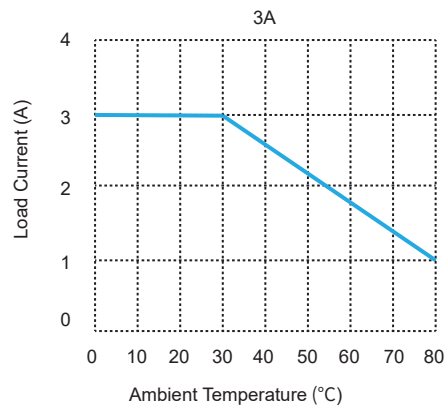
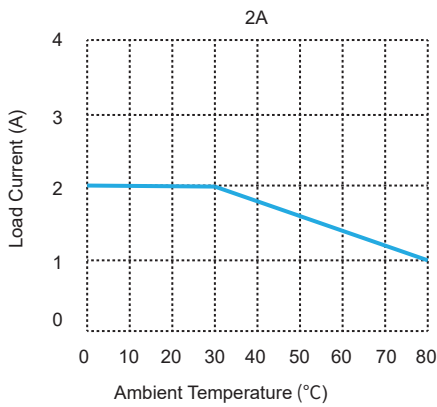


without Socket



with Socket

## Thermal Derating Curve



## General Notes

1. Soldering must be finished within 10 seconds at 260°C, or finished within 5 seconds at 350°C. Otherwise it may cause damage to the relay.
2. Terminal polarity must be observed. Otherwise it may cause damage to the relay.
3. When ambient temperature is above 25°C, the maximum load current decreases. See thermal derating curve.

## Agency Approvals (Certification)

