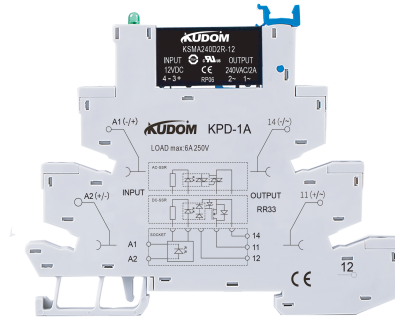


Product Description

- ◆ TRIAC Output
- ◆ Optical Isolation
- ◆ Dielectric Strength: 2500Vrms
- ◆ Load Current: 1A, 2A
- ◆ PCB or Socket Mounted
- ◆ Load Voltage: 240VAC
- ◆ RoHS Compliant



Ordering Information

KSM	A	240	D	1	R	-5	D
KSM Series	Load Type A: AC Load	Load Voltage 240: 240VAC	DC Control	Load Current 1: 1Amp 2: 2Amp	Switching Mode Blank: Zero Crossing R: Random-on	Control Voltage 5: 5VDC 12: 12VDC 24: 24VDC	Blank: without Socket D: with Socket

General Specifications

Input Specifications (Ta=25°C)		
Control Voltage Range (1)	-5	4-6VDC
	-12	9.6-14.4VDC
	-24	19.2-28.8VDC
Must Turn-On Voltage (2)	-5	4VDC
	-12	9.6VDC
	-24	19.2VDC
Must Turn-Off Voltage	1VDC	
Maximum Input Current	25mA	

Note: (1) For KSMD with control voltage at 12V, 24V equipped with the socket, the control voltage limit should be increased by 1.4V, for example, for KSMD24D4-12D, please ensure that the control voltage is 9.6V+1.4V=11V Min.
(2) For KSMDXXDX-5, with socket or without socket the control voltage limit is still 4V, no need to add 1.4V.

Output Specifications (Ta=25°C)		
Load Voltage Range	24-280VAC	
Maximum Transient Overvoltage	600Vpk	
Load Current Range	1A	0.1 - 1A
	2A	0.1 - 2A
Maximum Turn-On Time	Zero Crossing	10ms
	Random-on	1ms
Maximum Turn-Off Time	10ms	
Maximum Surge Current (@10 ms)	1A	30A
	2A	80A
Maximum Off-State Leakage Current @ Rated Load Voltage	1.5mA	
Maximum On-State Voltage Drop @ Rated Current	1.5Vrms	
Minimum Off-State dv/dt @ Maximum Rated Voltage	200V/μs	

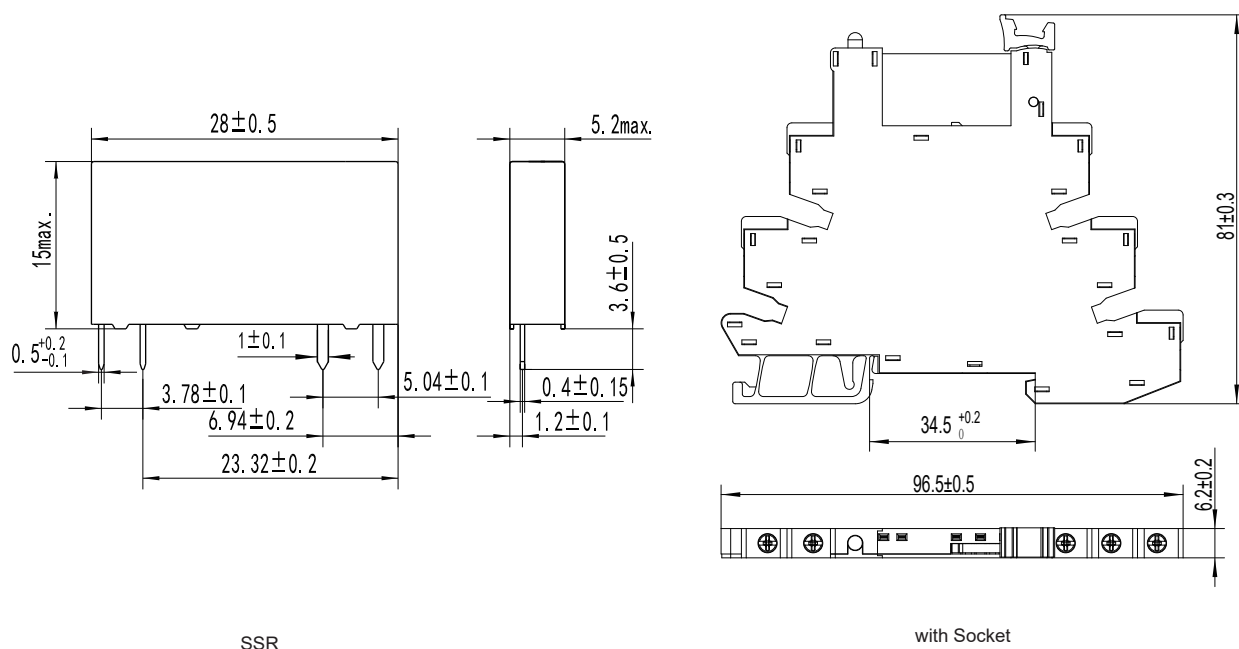
General Specifications

General Specifications (Ta=25°C)		
Dielectric Strength (50/60Hz)	2500Vrms	
Minimum Insulation Resistance (@500VDC)	1000MΩ	
Ambient Temperature Range	-30°C ~ +80°C	
Storage Temperature Range	-30°C ~ +100°C	
Weight (Typical)	without Socket	4g
	D: with Socket	30g

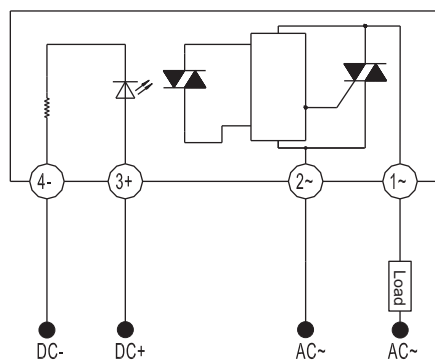
Applications

Suitable for high density PCB mounting, PLC control applications, and etc.

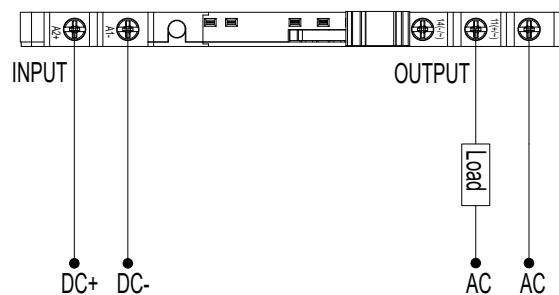
Outline Dimensions



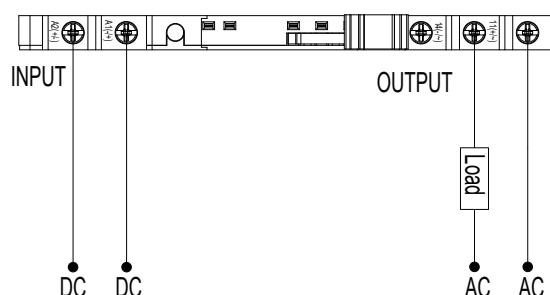
Wiring Diagram



Wiring Diagram (with Socket)

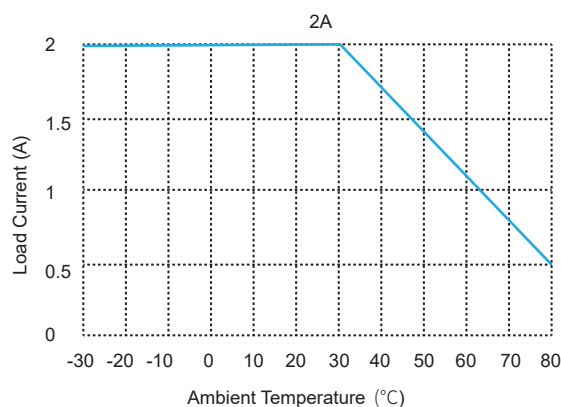
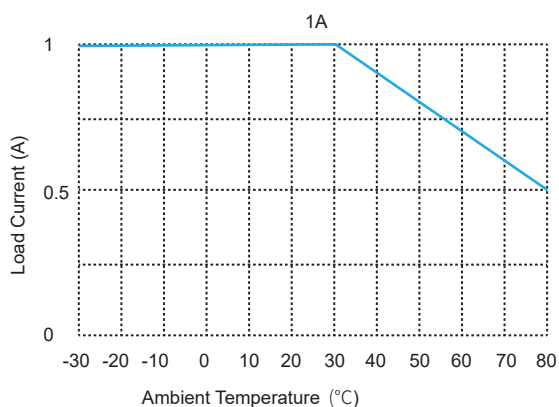


KSMA***-5D



KSMA***-(12, 24) D

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. When connecting wiring to SSR please ensure screws are torqued down properly 4.43/0.5 in lb/N·m
3. When ambient temperature is above 25°C, the maximum load current decreases. See thermal derating curve.

Agency Approvals (Certification)

