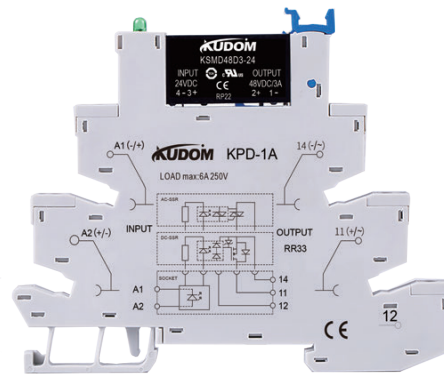


- ◆ Transistor or MOSFET Output
- ◆ Optical Isolation
- ◆ Load Current : 0.1A, 2A, 3A, or 4A
- ◆ Load Voltage: 24VDC or 48VDC
- ◆ PCB or Socket Mounted
- ◆ Dielectric Strength: 2500Vrms
- ◆ RoHS Compliant



Ordering Information

KSM	D	48	D	3	-5	D
KSM Series	Load Type D: DC Load	Load Voltage 24: 24VDC 48: 48VDC	DC Control	Load Current 0.1: 0.1Amp 2: 2Amp 3: 3Amp 4: 4Amp	Control Voltage 12: 12VDC 24: 24VDC 48: 48VDC	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
	48		38.4-57.6VDC
	60		48-72VDC
Must Turn-On Voltage (2)	5		4VDC
	12		9.6VDC
	24		19.2VDC
	48		38.4VDC
	60		48VDC
Must Turn-Off Voltage	5		1VDC
	12		2.4VDC
	24		2.4VDC
	48		4.8VDC
	60		4.8VDC
Maximum Input Current	5		25mA (@6VDC)
	12		25mA (@14.4VDC)
	24		25mA (@28.8VDC)
	48		23mA (@57.6VDC)
	60		23mA (@72VDC)

Note:

(1) For KSM D with control voltage at 12V, 24V, 48V, 60V, equipped with the socket, the control voltage limit should be increased by 1.4V, for example, for KSM D24D4-12D, please ensure that the control voltage is 9.6V+1.4V=11V Min.

(2) For KSM DXXDX-5, with socket or without socket the control voltage limit is still 4V, no need to add 1.4V.

General Specifications

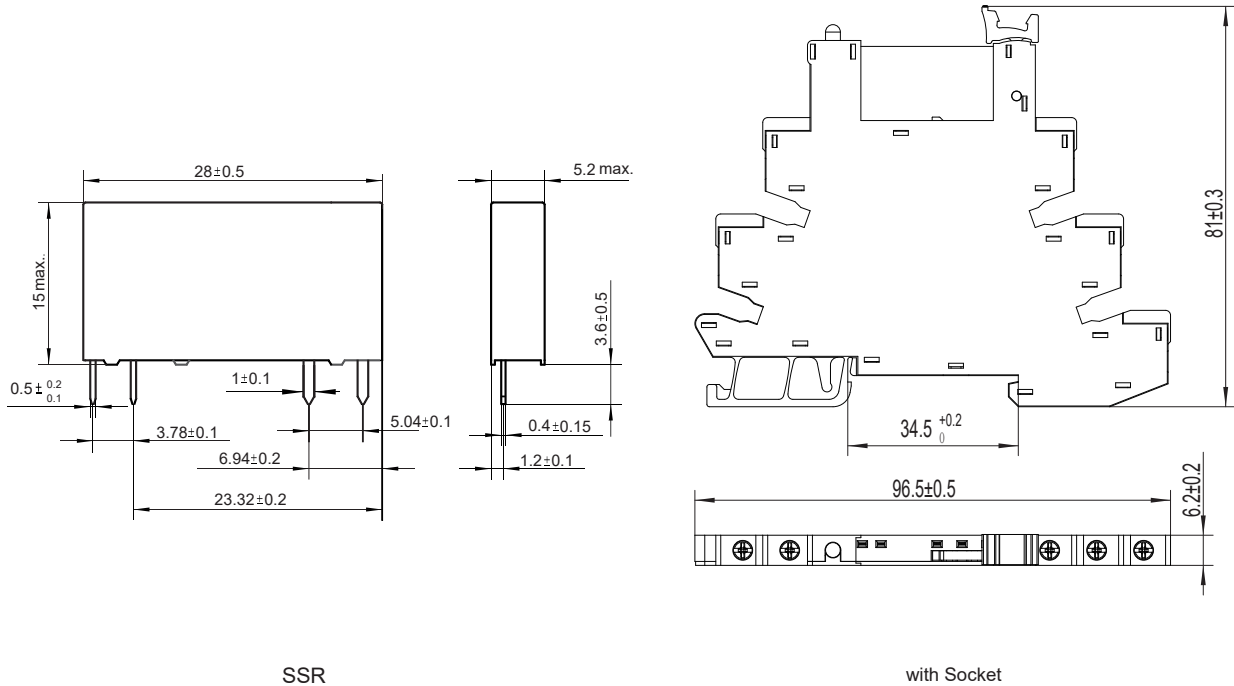
Output Specifications (Ta=25°C)

Load Voltage Range	24V	3-28VDC
	48V	3-58VDC
Maximum Transient Overvoltage	24V	33VDC
	48V	58VDC
Load Current Range	0.1A	0.001 - 0.1A
	2A	0.002 - 2A
	3A	0.002 - 3A
	4A	0.002 - 4A
Maximum Turn-On Time	300µs	
Maximum Turn-Off Time	300µs	
Maximum Surge Current (@10 ms)	0.1A	1A
	2A	20A
	3A	30A
	4A	48A
Maximum Off-State Leakage Current@Rated Load Voltage	100µA	
Maximum On-State Voltage Drop@Rated Current	0.1A	1.5VDC
Maximum On-State Resistance	2A/3A/4A	37MΩ

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

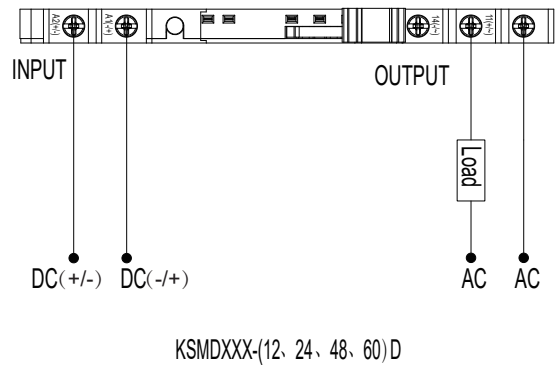
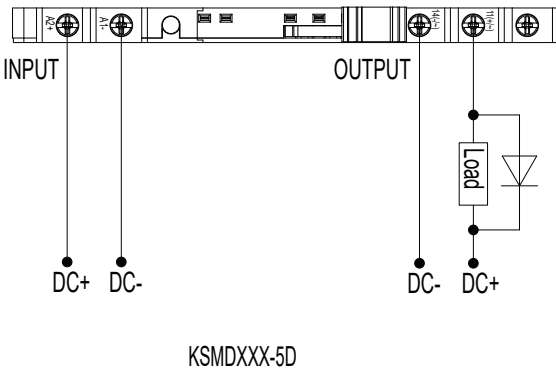
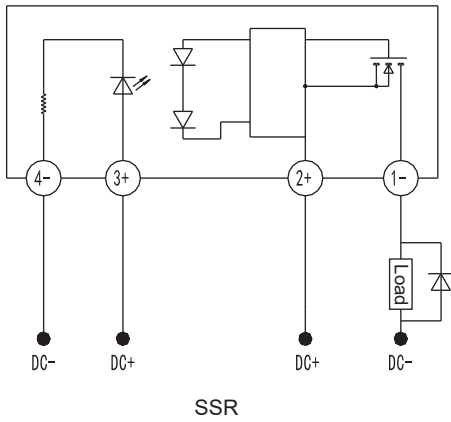
Outline Dimensions



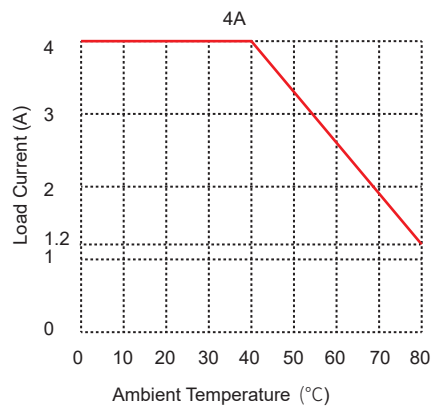
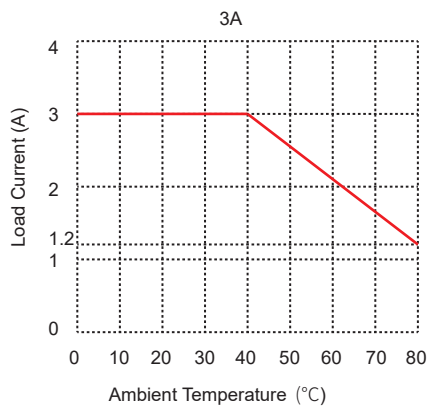
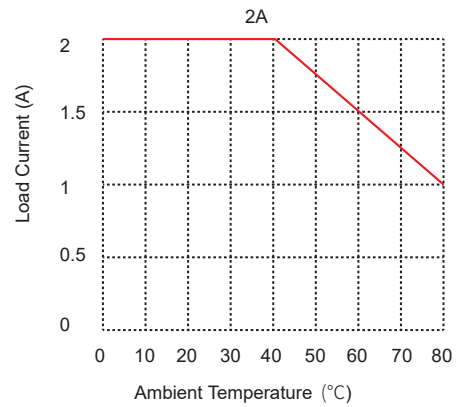
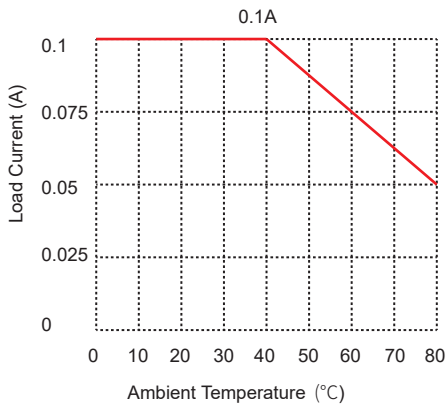
Applications

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

Wiring Diagram



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. damage to 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)

