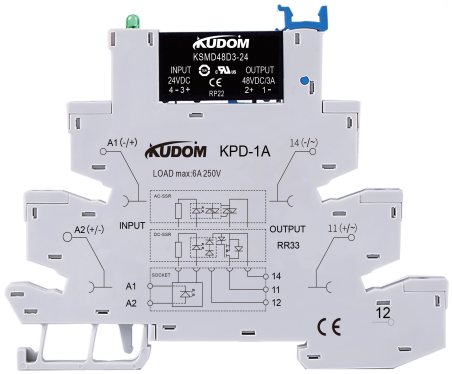
- Transistor or MOSFET Output
- Optical Isolation
- Load Current : 0.1A, 2A, 3A, or 4A
- Load Voltage: 24VDC or 48VDC
- PCB or Socket Mounted
- Dielectric Strength: 2500Vrms
- RoHS Compliant



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 5: 5VDC 12: 12VDC 24: 24VDC 48: 48VDC 60: 60VDC	Blank: without Socket D: with Socket

General Specifications

Input Specifications (Ta=25℃)		
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 KSMD 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 KSMD24D4-12D, please ensure that the control voltage is 9.6V+1.4V=11V Min.

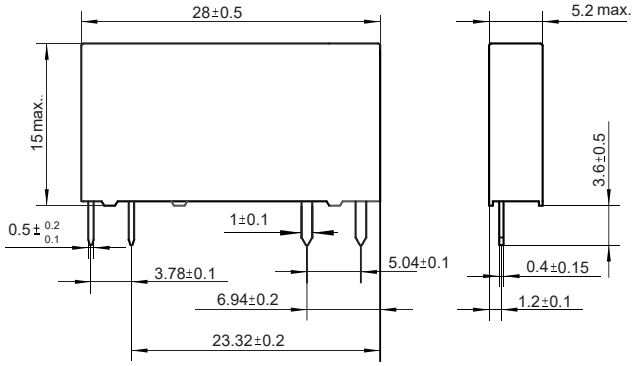
(2) For KSMDXXDX-5, with socket or without socket the control voltage limit is still 4V, no need to add 1.4V.

General Specifications

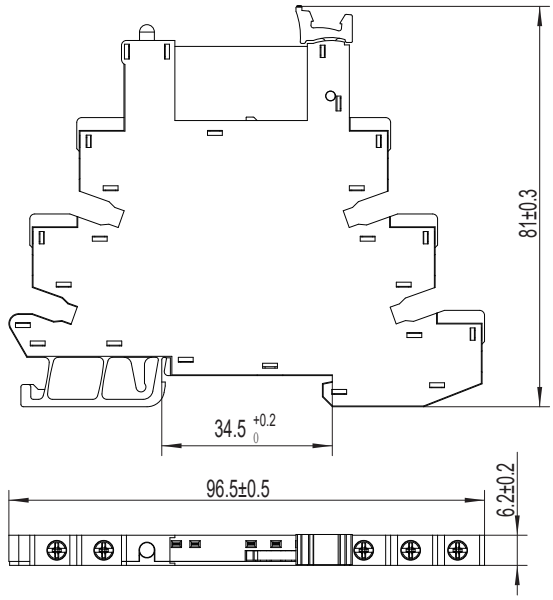
Output Specifications (Ta=25℃)		
Load Voltage Range	24V	3-28VDC
	48V	3-58VDC
Maximum Transient Overvoltage	24V	33VDC
	48V	58VDC
Load Current Range	0.1A	0.001 - 0.1A
	2A	0.002 - 2A
	3A	0.002 - 3A
	4A	0.002 - 4A
Maximum Turn-On Time	300μs	
Maximum Turn-Off Time	300μs	
Maximum Surge Current (@10 ms)	0.1A	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℃)		
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



SSR

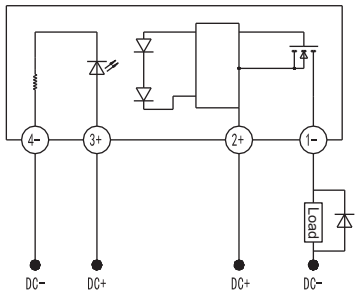


with Socket

Applications

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

Wiring Diagram



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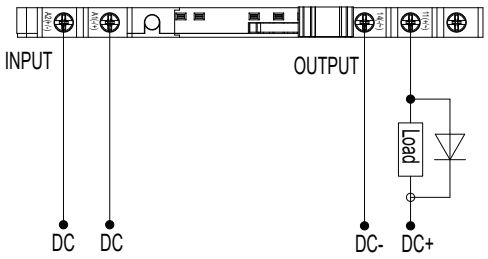
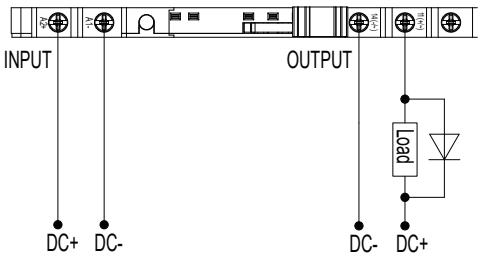


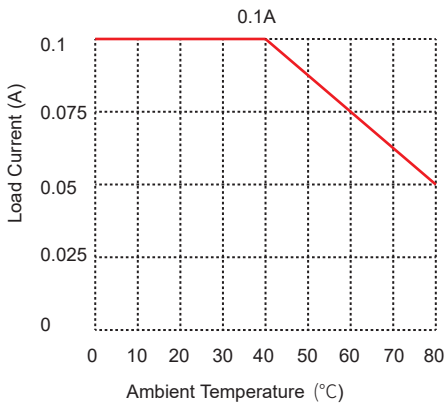
KSMDXXX-(12、24、48、60) D系列产品接线图

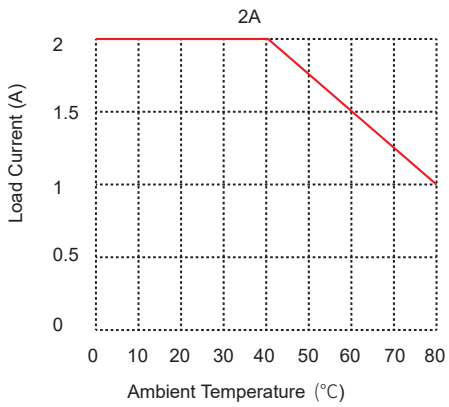


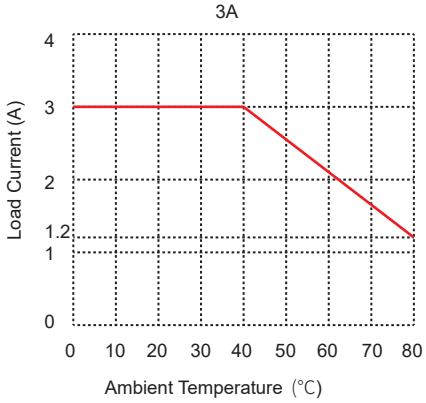
KSMDXXX-5D系列产品接线图

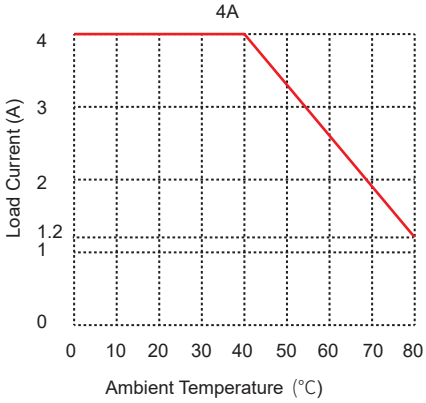
with Socket

Thermal Derating Curve









General Notes

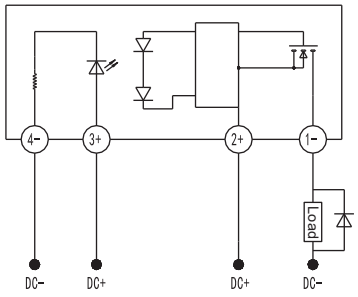
1. Soldering must be finished within 10 seconds at 260°C,or finished within 5 seconds at 350°C. Otherwise it may cause damage to the relay. damage to relay.
2. When connecting wiring to SSR please ensure screws are torqued down properly 4.43/0.5 in lb/N·m
3. When ambient temperature is above 25°C, the maximum load current decreases. See thermal derating curve.

Agency Approvals (Certification)

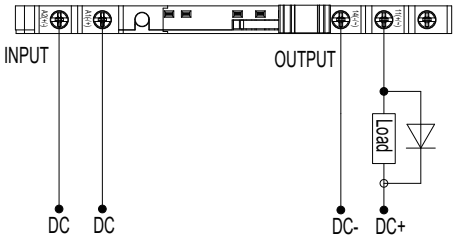
Applications

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

Wiring Diagram



SSR



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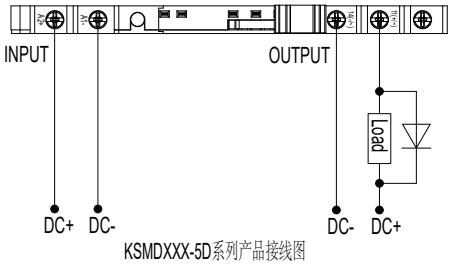
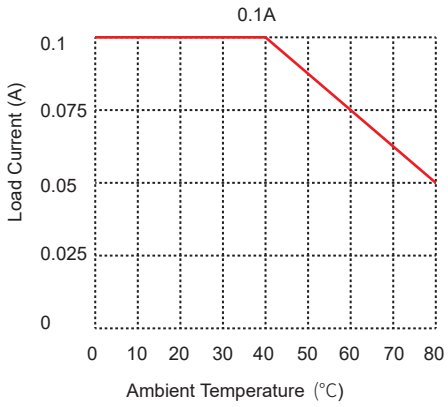
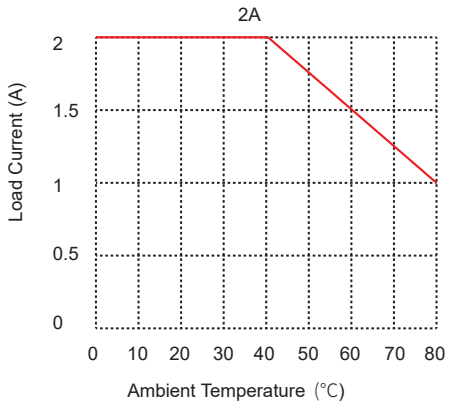


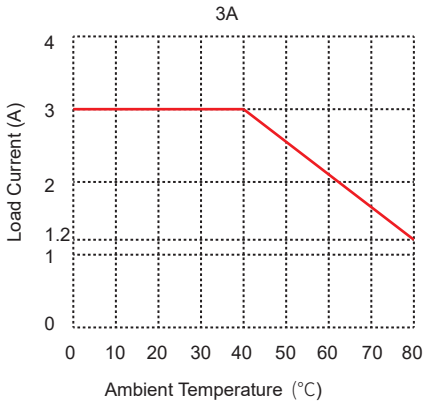
KSMDXXX-5D系列产品接线图

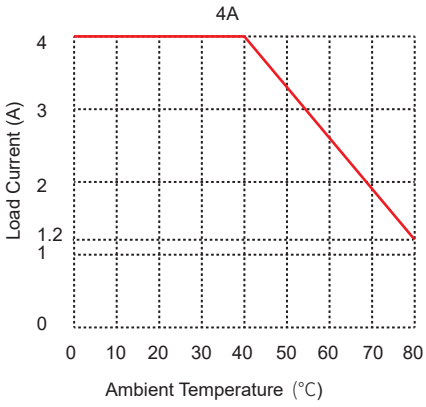
with Socket

Thermal Derating Curve









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