Solid State Relay
KSMD Series Single Phase DC Output
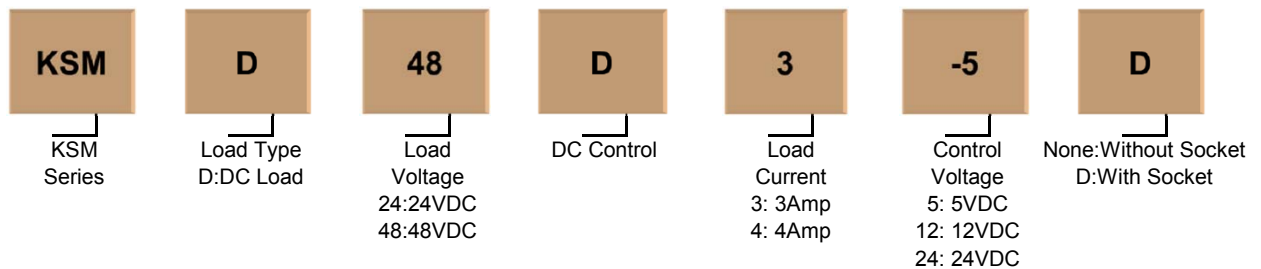
● **TTL,COMS drive compatible**
● **Optoelectronic isolation**
● **Control voltage: 5VDC, 12VDC, 24VDC**
● **DIN rail mounted**
● **Standard footprint package**
● **Dielectric strength≥2500VACrms**
● **ROHS compliant**

Product Description

KSMD series is DC output solid state relay with small size.The control voltage is 5VDC,12VDC and 24VDC.Output current is 3A and 4A,output voltage is 24VDC and 48VDC.Suitable for high density PCB mounted or PLC control applications.

Product Selection

KSM	D	48	D	3	-5	D
KSM Series	Load Type D:DC Load	Load Voltage 24:24VDC 48:48VDC	DC Control	Load Current 3: 3Amp 4: 4Amp	Control Voltage 5: 5VDC 12: 12VDC 24: 24VDC	None:Without Socket D:With Socket

Description		3A	4A
5		KSMD24D3-5	KSMD24D4-5
		KSMD24D3-5D	KSMD24D4-5D
		KSMD48D3-5	KSMD48D4-5
		KSMD48D3-5D	KSMD48D4-5D
12		KSMD24D3-12	KSMD24D4-12
		KSMD24D3-12D	KSMD24D4-12D
		KSMD48D3-12	KSMD48D4-12
		KSMD48D3-12D	KSMD48D4-12D
24		KSMD24D3-24	KSMD24D4-24
		KSMD24D3-24D	KSMD24D4-24D
		KSMD48D3-24	KSMD48D4-24
		KSMD48D3-24D	KSMD48D4-24D

Technical Specification

Input Circuit

Control Voltage Range	5	4-6VDC
	12	10-15VDC
	24	20-30VDC
Minimum Turn-On Voltage	5	4VDC
	12	10VDC
	24	20VDC

Minimum Turn-Off Voltage	5	1VDC
	12	3VDC
	24	10VDC
Maximum Input Current		25mA

Output Circuit

Load Voltage Range	24	0-28VDC
	48	0-58VDC
Maximum Transient Voltage	24	33VDC
	48	58VDC
Load Current Range	3A	0.001 - 3A
	4A	0.001 - 4A
Maximum Turn-On Time		50µs
Maximum Turn-Off Time		300µs
Maximum Surge Current [@10 ms]	3A	30A
	4A	48A
Maximum Off-State Leakage Current [@ Rated Voltage]		100µA
Maximum On-State Voltage Drop [@ Rated Current]	24	0.2VDC
	48	0.35VDC

General Information

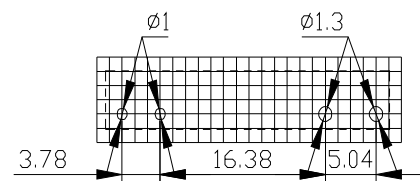| Dielectric Strength, Input/Output(50/60Hz)		$\geqslant$2500Vrms
Insulation Resistance		1000MΩ(@500VDC)
Vibration		10-55Hz，1.5mm double-amplitude
Shock		Acceleration 980m/s^2 pulse duration 6ms
Ambient Operating Temperature Range		-30℃ ～ +80℃
Ambient Storage Temperature Range		-30℃ ～ +100℃
Weight (typical)	KSMD….-.	4g
	KSMD….-.D	30g

Application

Suitable for high density PCB mounted or PLC control applications.
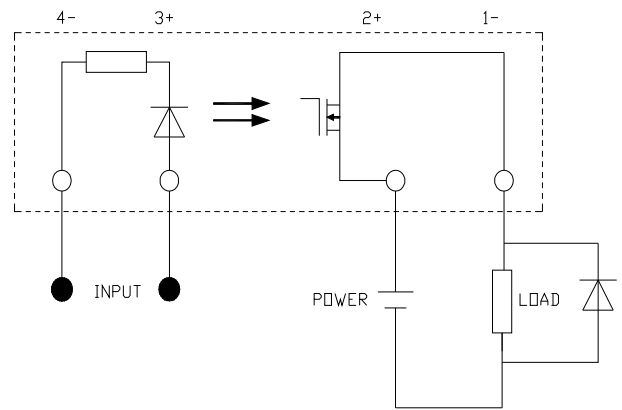
Installation

Dimension Figure

PCB Mounted Figure

Kudom Electronics Technology
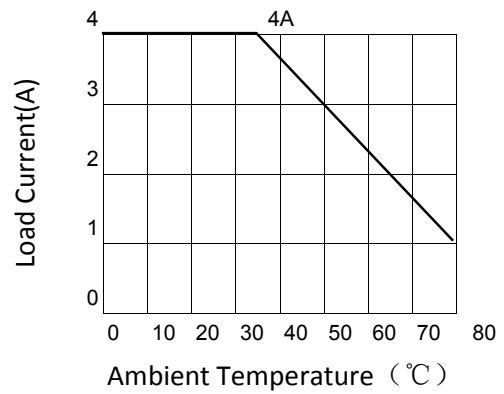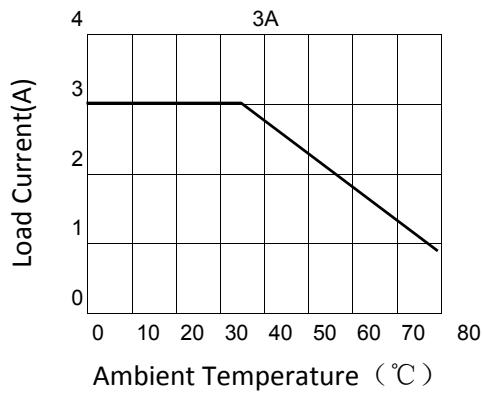www.kudom-elec.com
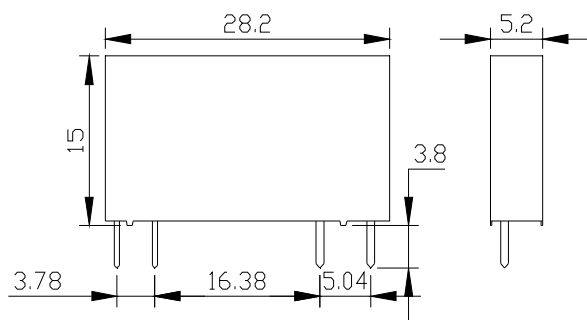
Socket Installation Drawing(Type:KPD-1A)

Wiring Method

28

75.6

89

6.2

4-   3+   2+   1-

INPUT

POWER

LOAD

Thermal Curve

3A

Load Current(A)

Ambient Temperature（℃）

4A

Load Current(A)

Ambient Temperature（℃）
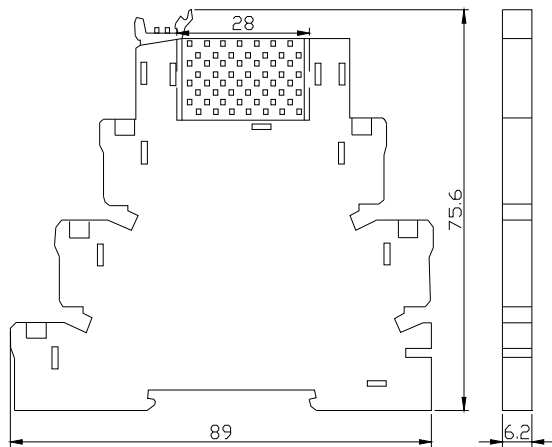
Non Repeative Surge Current And Surge Cycle Curve

Non Repetitive Surge Current(A)

Surge Duration
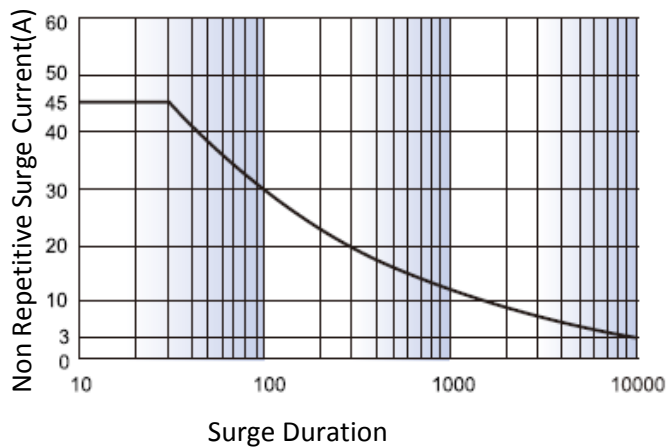
Product Certification

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www.kudom-elec.com