

Solid State Relay

ASR-SMD DC Output



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

ASR	—	SMD	48	D	3	N	-K
	Packing - : Bulk pack A-Z	SMD Series	Load Voltage 24: 24VDC 48: 48VDC	Control Voltage D:DC Control	Load Current 0.1:0.1 Amps 2:2 Amps 3:3 Amps 4:4 Amps	Control Voltage N: 5VDC P: 12VDC R: 24VDC S: 48VDC T: 60VDC	None: No Socket K: With Socket

Technical Specification

INPUT CIRCUIT(TA=25°C)		
Control Voltage Range	N	4-6VDC
	P	9.6-14.4VDC
	R	19.2-28.8VDC
	S	38.4-57.6VDC
	T	48-72VDC
Must Turn-on Voltage ⁽¹⁾	N	4VDC
	P	9.6VDC
	R	19.2VDC
	S	38.4VDC
	T	48VDC
Must Turn-off Voltage	N	1VDC
	P	2.4VDC
	R	2.4VDC
	S	4.8VDC
	T	4.8VDC

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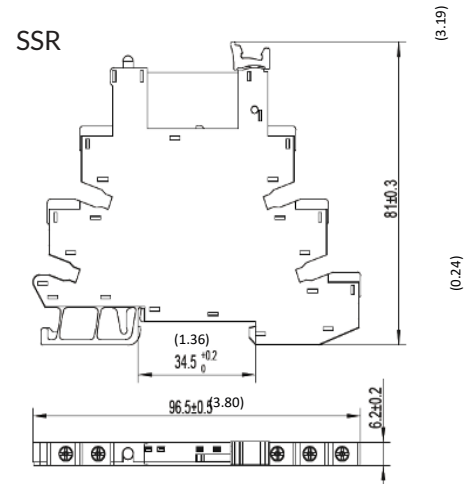
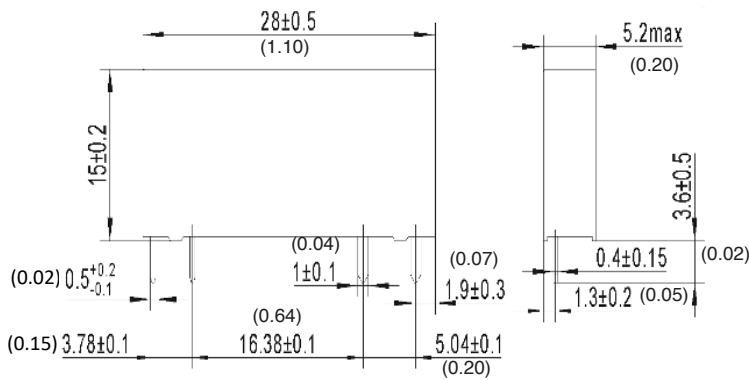
Must Turn-off Voltage	N	25mA (@6VDC)v
	P	25mA (@14.4VDC)
	R	25mA (@28.8VDC)
	S	23mA (@57.6VDC)
	T	23mA (@72VDC)
OUTPUT CIRCUIT(TA=25°C)		
Load Voltage Range	24	3-28VDC
	48	3-58VDC
Maximum Transient Overvoltage	24	33VDC
	48	58VDC
Load Current Range	0.1A	0.001 - 0.1A
	2A	0.002 - 2A
	3A	0.002 - 3A
	4A	0.002 - 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 Voltage]		0.1mA
Maximum On-State Voltage Drop [@ Rated Current]	0.1A	1.5VDC
Maximum On-State Resistance	2A/3A/4A	37mΩ

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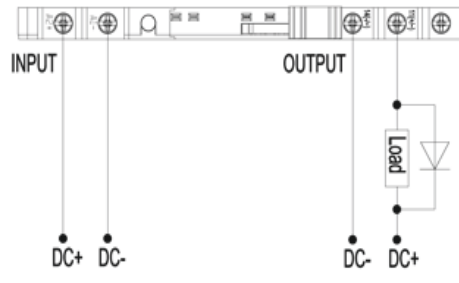
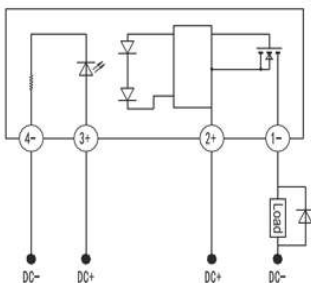
GENERAL INFORMATION (TA=25°C)		
Dielectric Strength, Input/Output(50/60Hz)		2500Vrmsv
Insulation Resistance		1000MΩ(@500VDC)
Ambient Operating Temperature Range		-30°C +80°C
Ambient Storage Temperature Range		-30°C +100°C
Weight (Typical)	ASR-SMD...-...Series	4g
	ASR-SMD...-...K Series	30g

Installation

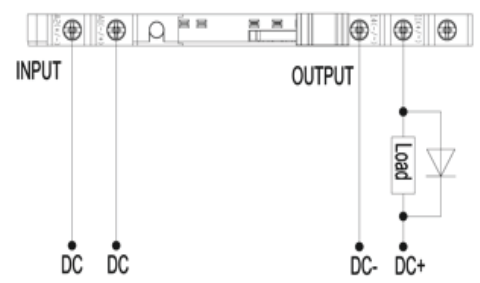


With Socket

Wiring Diagram



ASR-SMD...D...-NK Series

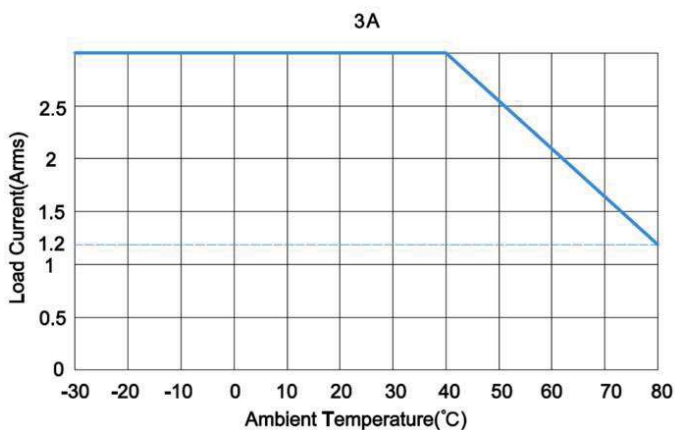
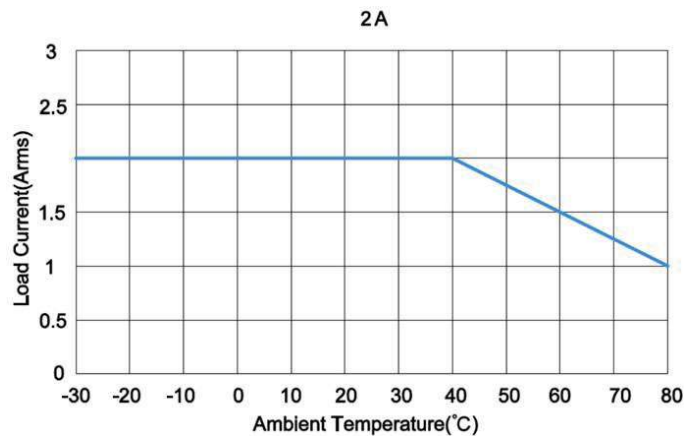
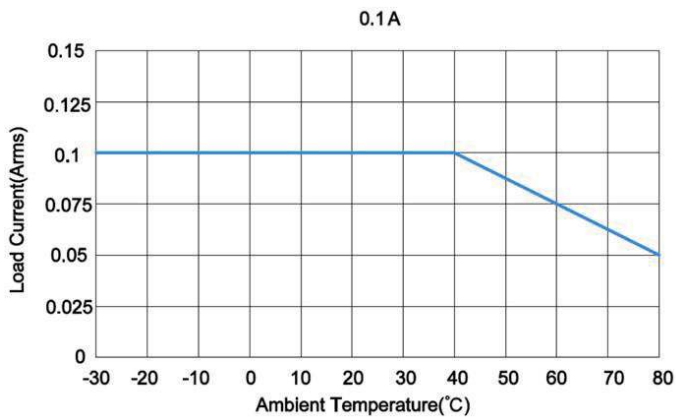


ASR-SMD...D...-P/R/S/TK Series

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Thermal Curve



Attentions:

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 in-lb, 0.5 N·m3.
3. When ambient temperature is above 25°C or tight installation required, the maximum load current decreases. See thermal derating curve.
2. Terminal polarity must be observed. Otherwise it may cause damage to the relay.

Product Certification



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