

Solid State Relay

KSJ100 Series DC Output

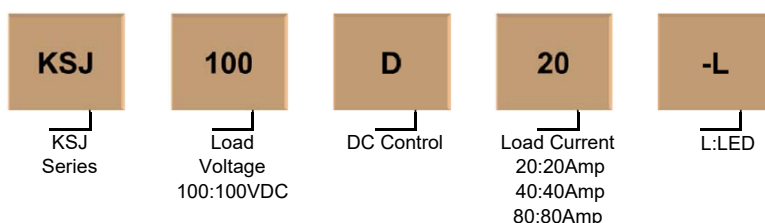


- MOSFET Output
- Ratings at 20A, 40A, 80A@100VDC
- 4-32VDC Control Input
- Dielectric Strength $\geq 2500\text{VACrms}$
- Opto-isolation
- Panel Mounted
- RoHS Compliant

Product Description

KSJ100 series is DC output panel mounted solid state relay. Control voltage is 4-32VDC, load voltage is 0-100VDC, output current is 20A, 40A or 80A. Opto-isolation between input and output, dielectric strength $\geq 2500\text{VACrms}$.

Product Selection



Description	20A	40A	80A
D:4-32VDC	KSJ100D20	KSJ100D40	KSJ100D80
	KSJ100D20-L	KSJ100D40-L	KSJ100D80-L

Technical Specification

Input Circuit

Control Voltage Range	4-32VDC
Minimum Turn-On Voltage	4VDC
Minimum Turn-Off Voltage	1VDC
Maximum Input Current	28mA @32VDC

Output Circuit

Load Voltage Range		0-100VDC
Load Current Range	20A	0.001 - 20A
	40A	0.001 - 40A
	80A	0.001 - 80A
Maximum Surge Current(@10ms)	20A	80A
	40A	120A
	80A	200A
Maximum Turn-On Time		100μs
Maximum Turn-Off Time		100μs
Maximum Off-State Leakage Current [@ Rated Voltage]		0.1mA
Max. on-state resistance	20A, 40A	13mΩ max.(@TA=25℃)
	80A	6.5mΩ max.(@TA=25℃)

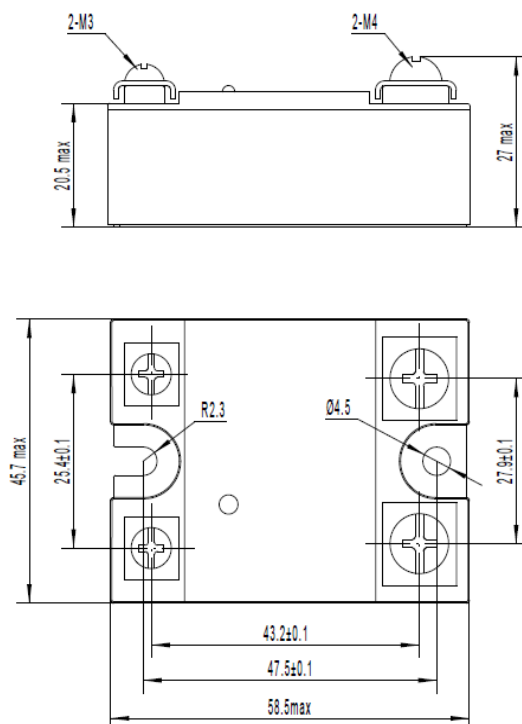
General Information

Dielectric Strength, Input/Output/Base (50/60Hz)	Min. 2500Vrms
Ambient Operating Temperature Range	-30℃ ~ +80℃
Ambient Storage Temperature Range	-30℃ ~ +100℃
Weight (Typical)	90g

Application

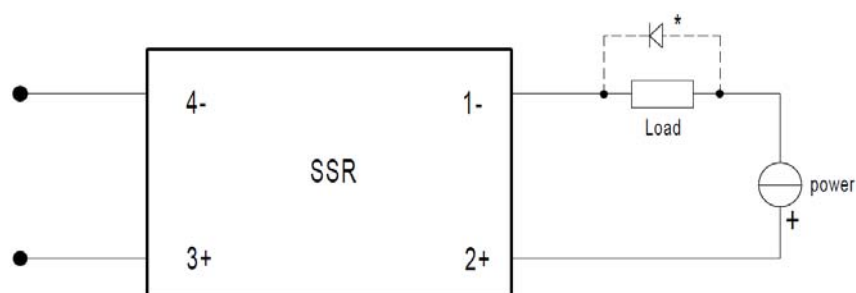
Suitable for DC heating, DC power, DC valve, DC motor, Solar Energy and so on.

Installation



All dimensions are in millimeters

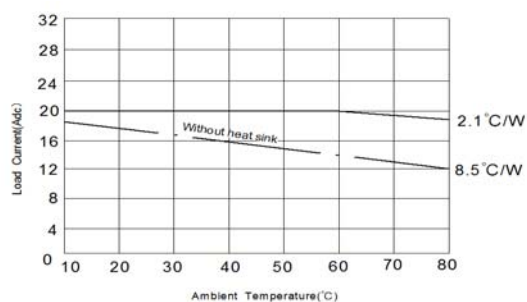
Wiring Diagram



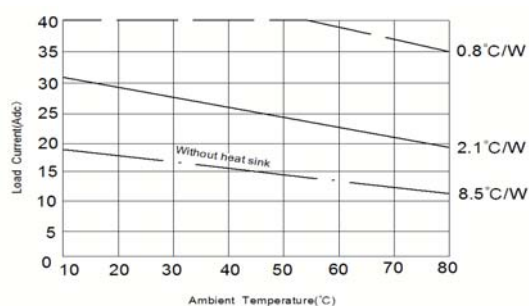
*Inductive loads must be diode suppressed.

Thermal Curve

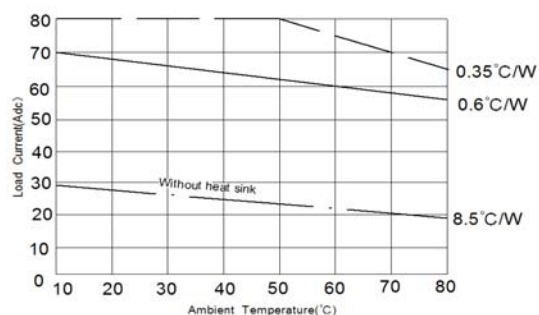
20A



40A



80A



Important Notice

1. Suppression circuit should be added when the relay is used for inductive load.
2. Control polarity shall be correct, otherwise it may damage the product.
3. Load current performance will be reduced when the ambient temperature is more than 40°C.

Product Certification



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