

Solid State Relay

KSJ100V or 200V Series Single Phase DC Output

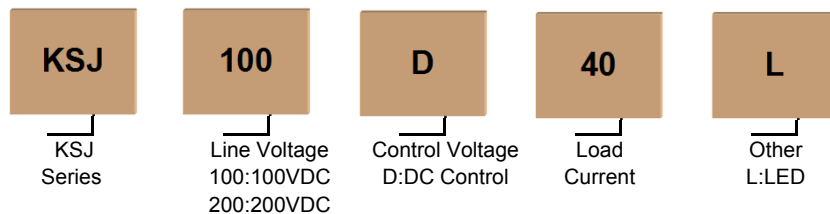


- MOSFET Output
- Low on Impedance
- 4-32VDC Control Input
- Dielectric Strength \geq 2500VACrms
- Opto-isolation
- LED Indication
- RoHS Compliant

Product Description

KSJ100V or 200V series is single-phase DC output printed board mounted solid state relay. Control voltage is 4-32VDC, output current is 20A, 40A, 80A or 100A@100VDC; 10A, 20A or 40A@200VDC; Photoelectric isolation between input and output, dielectric strength \geq 2500VACrms.

Product Selection



Description	10A	20A	40A	80A	100A
100VDC	KSJ100D20-L KSJ100D40-L KSJ100D80-L KSJ100D100-L				
200VDC	KSJ200D10-L KSJ200D20-L KSJ200D40-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
Maximum Reverse Voltage	32VDC

Output Circuit

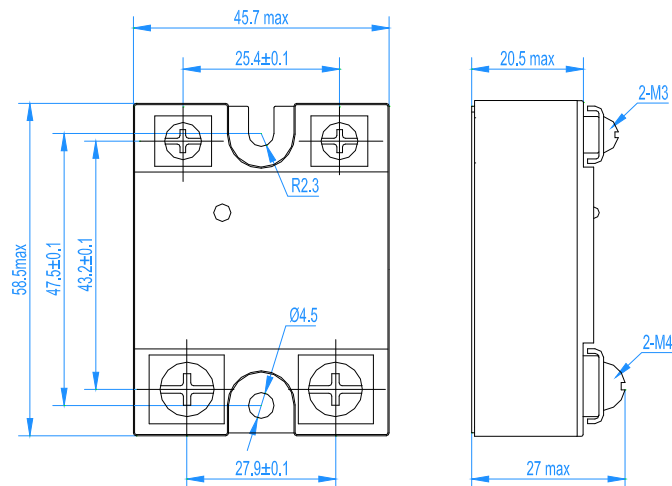
Line Voltage Range	100VDC	0-100VDC
	200VDC	0-200VDC
Load Current Range	10A	0.001 - 10A
	20A	0.001 - 20A
	25A	0.001 - 25A
	40A	0.001 - 40A
	80A	0.001 - 80A
	100A	0.001 - 100A

Maximum Surge Current[@10ms]	100VDC	10A	30A
		20A	60A
	200VDC	25A	75A
		40A	120A
		80A	200A
		100A	250A
Maximum Turn-on Time			100µs
Maximum Turn-off Time			100µs
Maximum Off-State Leakage Current [@ Rated Voltage]			0.1mA
Maximum On-state Resistance	100VDC	20A、40A	13mΩ max.(@TA=25°C)
		80A、100A	6.5mΩ max.(@TA=25°C)
	200VDC	10A	60mΩ max.(@TA=25°C)
		20A、40A	30mΩ max.(@TA=25°C)
General Information			
DielectricStrength,[50/60Hz]	Input/Output		≥2500Vrms
	Input, Output/Base		≥2500Vrms
Ambient Operating Temperature Range			-30°C ~ +80°C
Ambient Storage Temperature Range			-30°C ~ +100°C
Weight [Typical]			90g

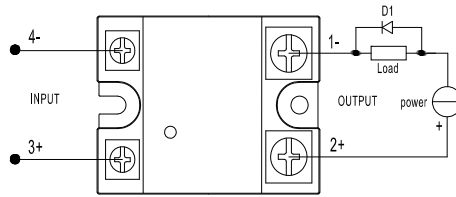
Application

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

Installation

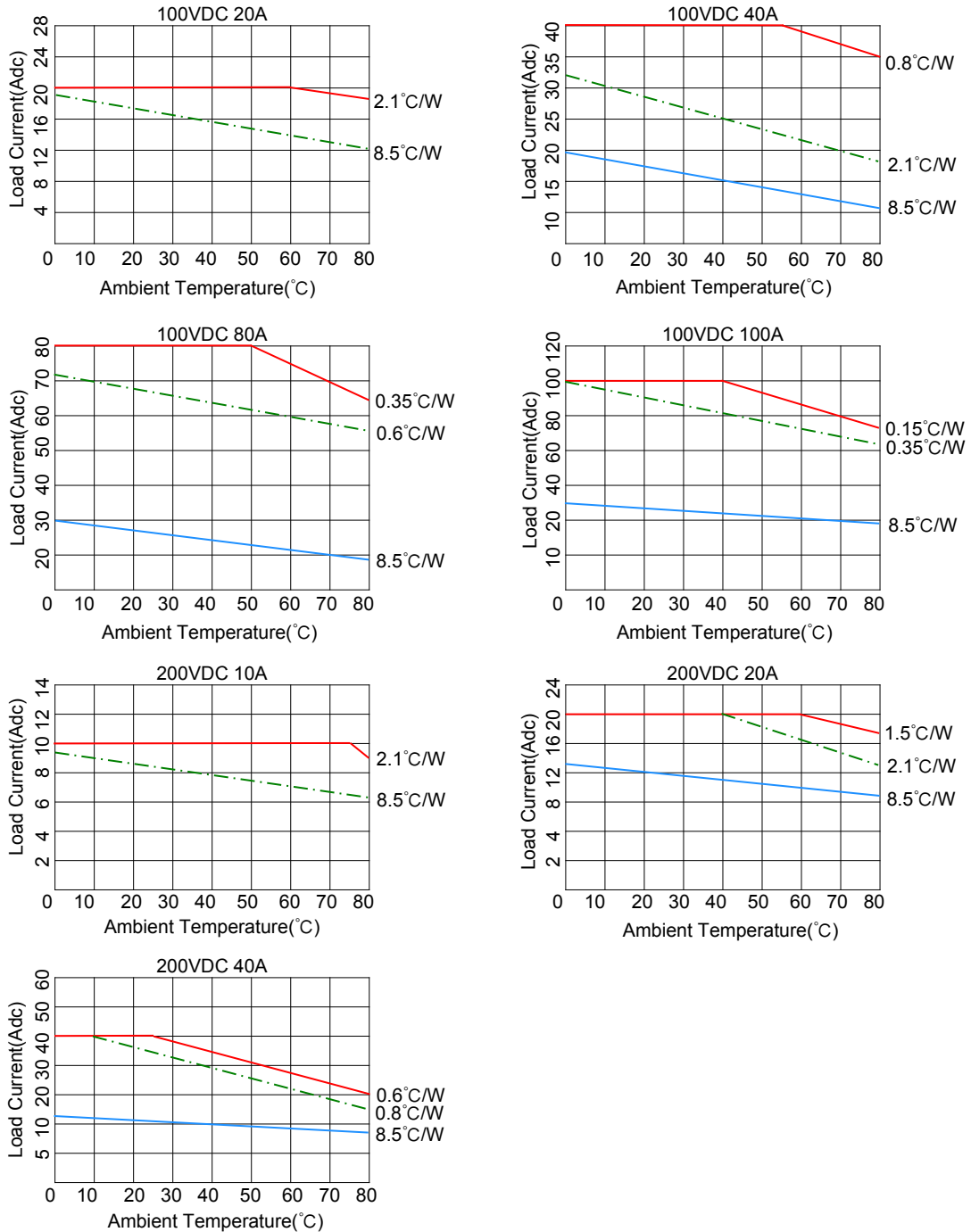


Wiring Diagram



*Inductive loads must be diode suppressed, both load terminals are inverse parallelled with a fly-wheel diode D1 inversely
D1: fast recovery diode

Thermal Curve



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. When the ambient temperature is higher than 40°C, the temperature curve should be used.

Product Certification

