Solid State Relay
KSJ50 Series Single Phase DC Output
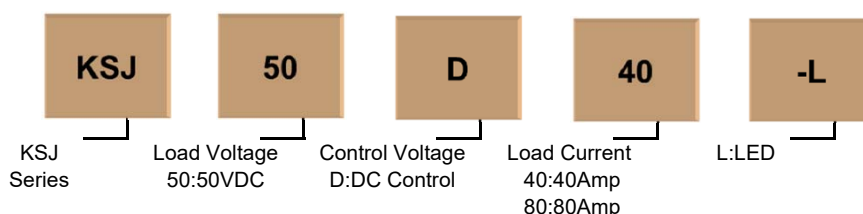

- ● MOSFET Output
- ● Ratings at 40A or 80A@50VDC
- ● 4-32VDC Control Input
- ● Dielectric strength≥2500Vrms
- ● Opto-isolation
- ● LED Indication
- ● RoHS Compliant

Product Description

KSJ50 series is single-phase DC output printed board mounted solid state relay. Control voltage is 4-32VDC, load voltage is 0-50VDC,output current is 40A or 80A. Photoelectric isolation between input and output, dielectric strength≥2500VACrms.

Product Selection

KSJ	50	D	40	-L
KSJ Series	Load Voltage 50:50VDC	Control Voltage D:DC Control	Load Current 40:40Amp 80:80Amp	L:LED

Description	40A	80A
D:4-32VDC	KSJ50D40	KSJ50D80
	KSJ50D40-L	KSJ50D80-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

Load Voltage Range		0-50VDC
Load Current Range	40A	0.001 - 40A
	80A	0.001 - 80A
Maximum Surge Current(@10ms)	40A	120A
	80A	200A
Maximum Turn-On Time		100µs
Maximum Turn-Off Time		100µs
Maximum Off-State Leakage Current [@ Rated Voltage]		0.1mA
Maximum On-state Resistance	40A	12mΩ max.(@TA=25℃)
	80A	6mΩ max.(@TA=25℃)

General Information

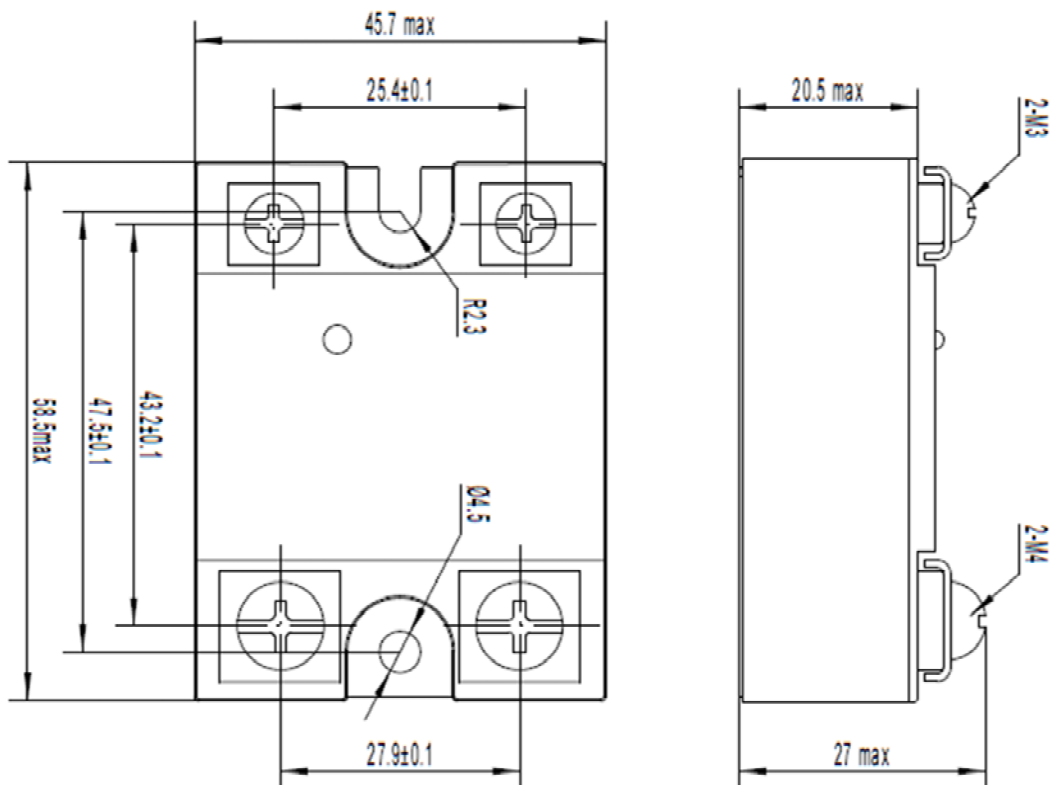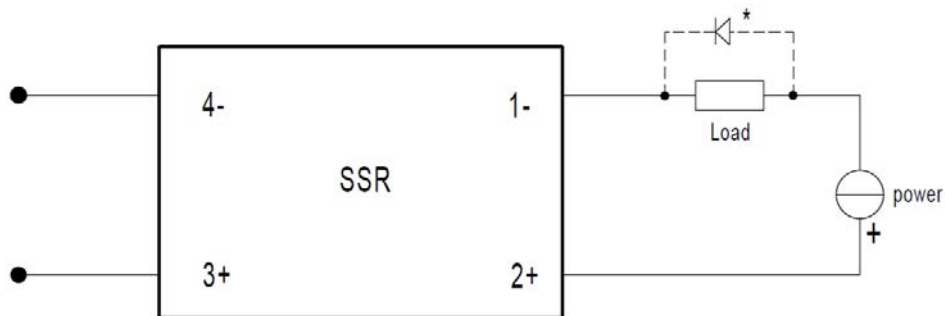|	
Dielectric Strength, Input/Output/Base (50/60Hz)	≥2500Vrms
Ambient Operating Temperature Range	-30℃ ～ +80℃
Ambient Storage Temperature Range	-30℃ ～ +100℃
Weight (Typical)	90g

Application

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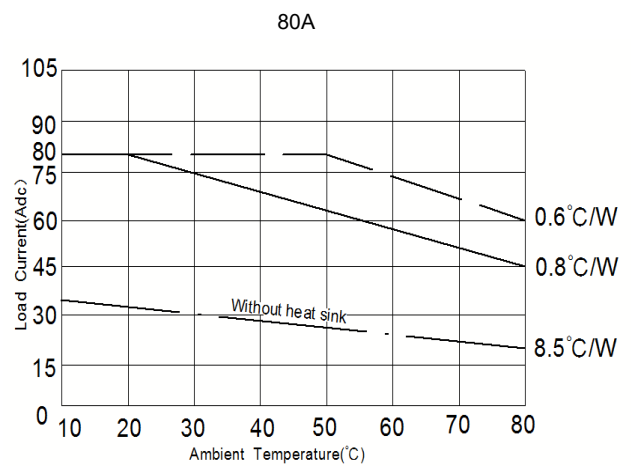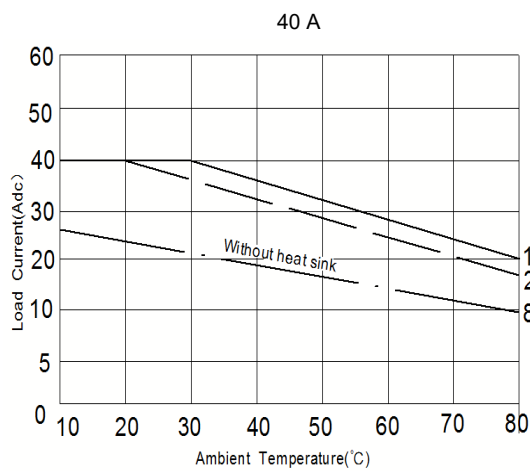
Installation

All dimensions are in millimeters

Wiring Diagram

*Inductive loads must be diode suppressed.

Thermal Curve

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