

# Solid State Relay

## KSJ200 Series Single Phase DC Output

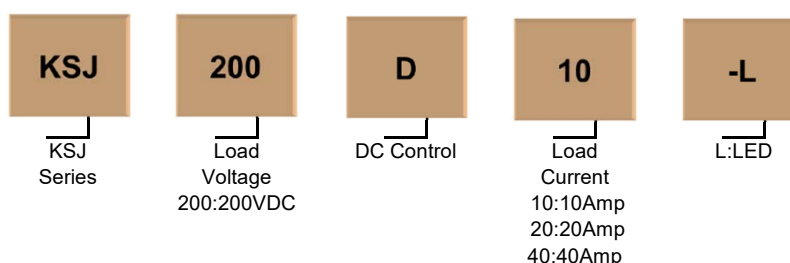


- MOSFET Output
- Ratings at 10A, 20A,40A @200VDC
- 4-32VDC Control Input
- Dielectric Strength  $\geq 2500\text{VACrms}$
- Opto-isolation
- LED Indication
- RoHS Compliant

### Product Description

KSJ200 series is single-phase DC output printed board mounted solid state relay. Control voltage is 4-32VDC, load voltage is 0-200VDC, output current is 10A, 20A and 40A. Photoelectric isolation between input and output, dielectric strength  $\geq 2500\text{VACrms}$ .

### Product Selection



| Description | 10A         | 20A         | 40A         |
|-------------|-------------|-------------|-------------|
| D:4-32VDC   | KSJ200D10   | KSJ200D20   | KSJ200D40   |
|             | 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    | 28 mA @32VDC |

#### Output Circuit

|                                                     |          |                      |
|-----------------------------------------------------|----------|----------------------|
| Load Voltage Range                                  | 0-200VDC |                      |
| Load Current Range                                  | 10A      | 0.001 - 10A          |
|                                                     | 20A      | 0.001 - 20A          |
|                                                     | 40A      | 0.001 - 40A          |
| Maximum Surge Current (@10ms)                       | 10A      | 30A                  |
|                                                     | 20A      | 60A                  |
|                                                     | 40A      | 120A                 |
| Maximum Turn-On Time                                | 100μs    |                      |
| Maximum Turn-Off Time                               | 100μs    |                      |
| Maximum Off-State Leakage Current [@ Rated Voltage] | 0.1mA    |                      |
| Max. on-state resistance                            | 10A      | 60mΩ max.( @TA=25°C) |
|                                                     | 20A,40A  | 30mΩ max.( @TA=25°C) |

## General Information

Dielectric Strength,  
Input/Output/Base (50/60Hz)  $\geq 2500V_{rms}$

Ambient Operating  
Temperature Range  $-30^{\circ}C \sim +80^{\circ}C$

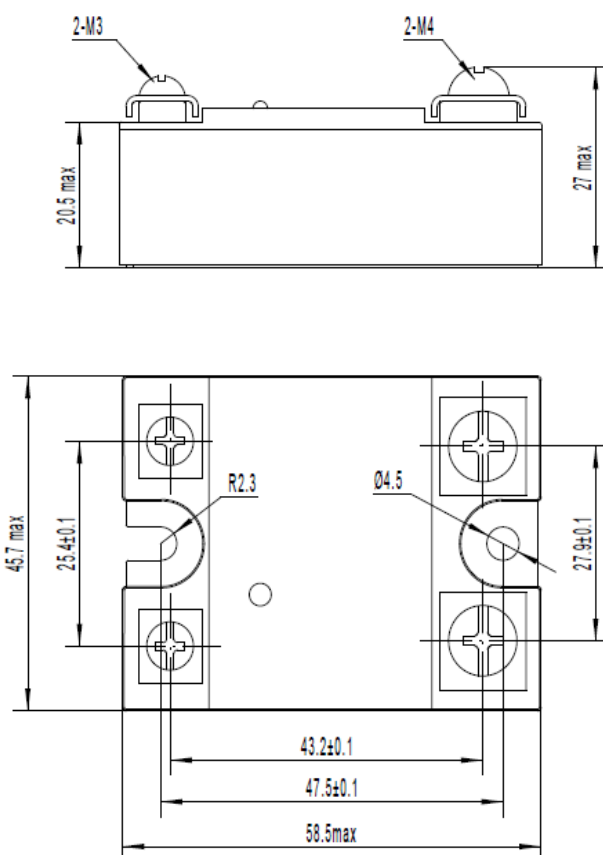
Ambient Storage  
Temperature Range  $-30^{\circ}C \sim +100^{\circ}C$

Weight (Typical) 90g

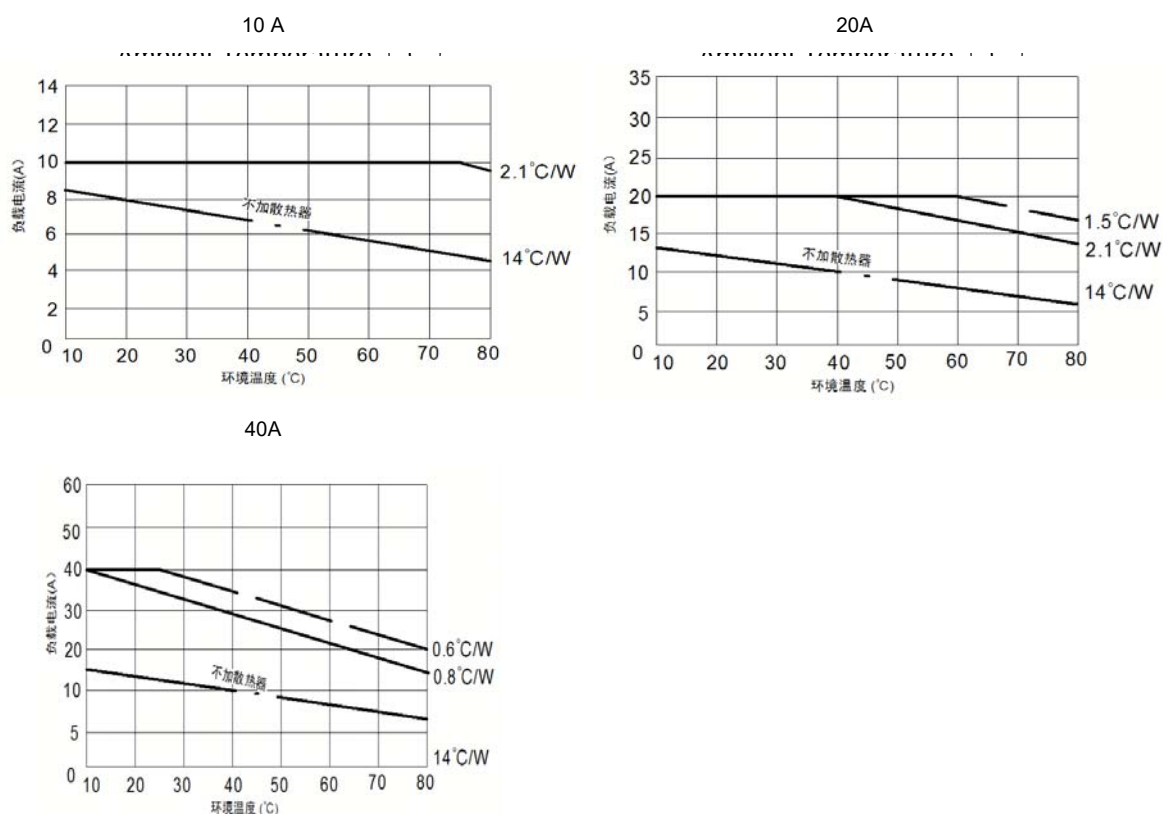
## Application

Suitable for DC heating, DC power, DC valve, DC motor, solar energy and so on.

## Installation



## 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



@Kudom Electronics Technology, All Right Are Reserved