

RoHS  
Compliant



## Description

This is a industrial 2 channel relay with SCR output is widely used in industry applications. The relay can be used for resistive, inductive or capacitive load. The load voltage is 24-530V AC, output current is rated at 25A. The load voltage is 240 Volts.

## Features

- Zero crossing switch
- Load current: 40A @24-530V AC
- SCR output
- DC input
- Opto-isolation:  $\geq 4000VACrms$
- IP20 safety cover protection (Option)

## Applications

Suitable for high-low temperature chamber, plastics machinery, incubation machine, oiling machine, HVAC, elevator lighting, fountain controller.

## Technical Specification

### Input Circuit

|                       |                   |
|-----------------------|-------------------|
| Control Voltage Range | : 4V DC to 15V DC |
| Min. Turn-On Voltage  | : 4V DC           |
| Min. Turn-Off Voltage | : 1V DC           |
| Max. Input Current    | : 50mA            |

### Output Circuit

|                                                  |                       |
|--------------------------------------------------|-----------------------|
| Load Voltage Range                               | : 24 ~ 280V AC        |
| Max. Turn-On Time                                |                       |
| Zero Crossing                                    | : 10ms                |
| Max. Turn-off Time                               | : 10ms                |
| Max. Surge Current (@10 ms) (25A)                | : 300A                |
| Max. I <sup>2</sup> t For Fusing (@10ms) (60A)   | : 450A <sup>2</sup> S |
| Transient Over Voltage                           | : 600Vpk              |
| Max. Off-State Leakage Current [@ Rated Voltage] | : 5mA                 |
| Max. On-State Voltage Drop [@ Rated Current]     | : 1.5Vrms             |
| Min. Off-State dv/dt[@Maximum Rated Voltage]     | : 500V/ $\mu$ s       |

# Solid State Relay

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## General Information

Dielectric Strength (50/60Hz)

Input/Output

:  $\geq 4000\text{Vrms}$

Input, Output/Base

:  $\geq 2500\text{Vrms}$

Ambient Operating Temperature Range

:  $-30^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$

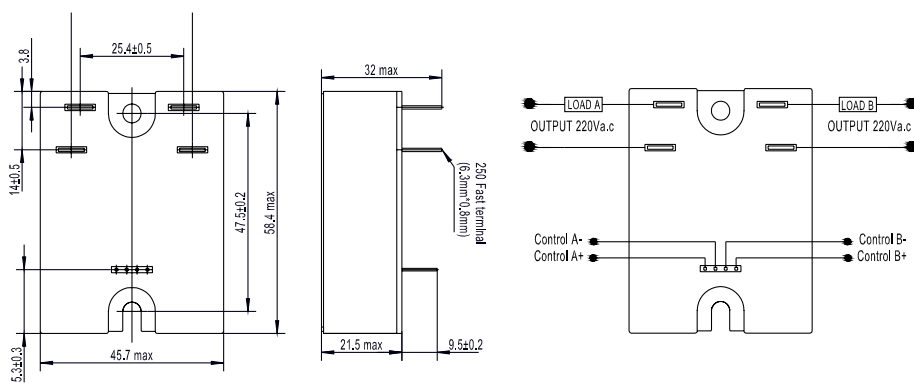
Ambient Storage Temperature Range

:  $-30^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$

Weight (Typical) (Quick Connection Terminal)

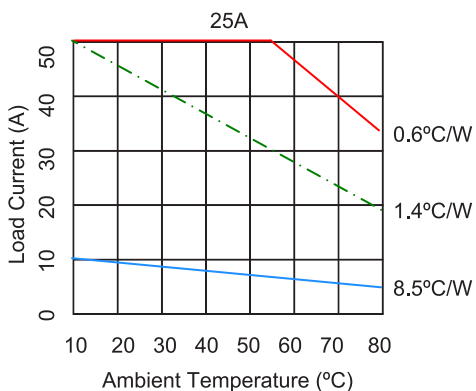
: 100g

## Diagram



Dimensions : Millimetres

## Thermal Curve



## Part Number Table

| Description             | Part Number   |
|-------------------------|---------------|
| SSR, DUAL, 25A, 240V AC | MCKSID240LD25 |

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