

RoHS  
Compliant



## Description

The product is a single-phase DC output printed board mounted solid state relay. Control voltage is 4-32VDC, output current is 20A, 40A, or 100A @ 100VDC. The photoelectric isolation between input and output, dielectric strength  $\geq 2500\text{VACrms}$ .

## Features

- MOSFET output
- Low on impedance
- 4-32VDC control input
- Dielectric strength  $\geq 2500\text{VACrms}$
- Opto-isolation
- LED indication

## Applications

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

## Technical Specification

### Input Circuit

Control Voltage Range	: 4V DC to 32V DC
Min. Turn-On Voltage	: 4V DC
Min. Turn-Off Voltage	: 1V DC
Max. Input Current	: 28mA @ 32V DC
Max. Reverse Voltage	: 32V DC

### Output Circuit

Line Voltage Range	: 0 ~ 100V AC
Load Current Range	
20A	: 0.001 - 20A
40A	: 0.001 - 40A
100A	: 0.001 - 100A
Maximum Surge Current [@10ms] (100V DC)	
20A	: 60A
40A	: 120A
100A	: 250A
Max. Turn-on Time	: 100 $\mu$ s
Max. Turn-off Time	: 100 $\mu$ s
Max. Off-State Leakage Current [@ Rated Voltage]	: 0.1mA
Max. On-state Resistance (100V DC)	
20A, 40A	: 13m $\Omega$ max. ( @TA=25°C)
100A	: 6.5m $\Omega$ max. ( @TA=25°C)

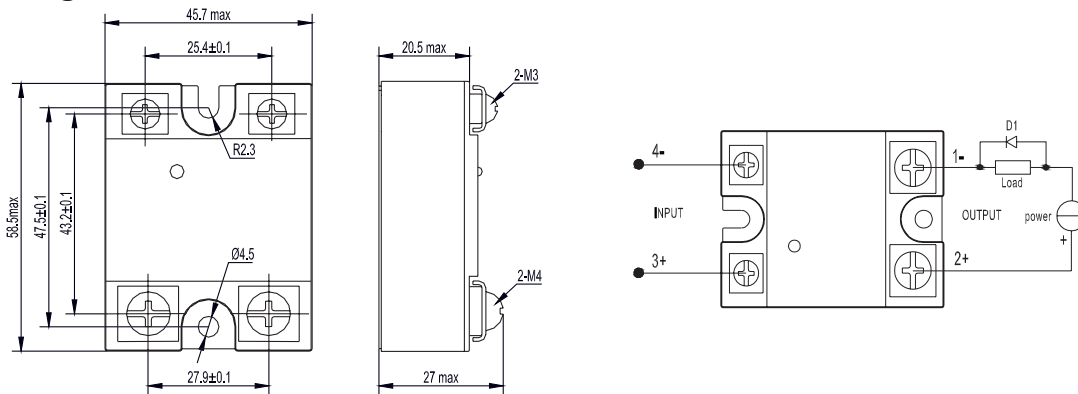
Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
Element14.com/multicomp-pro

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## General Information

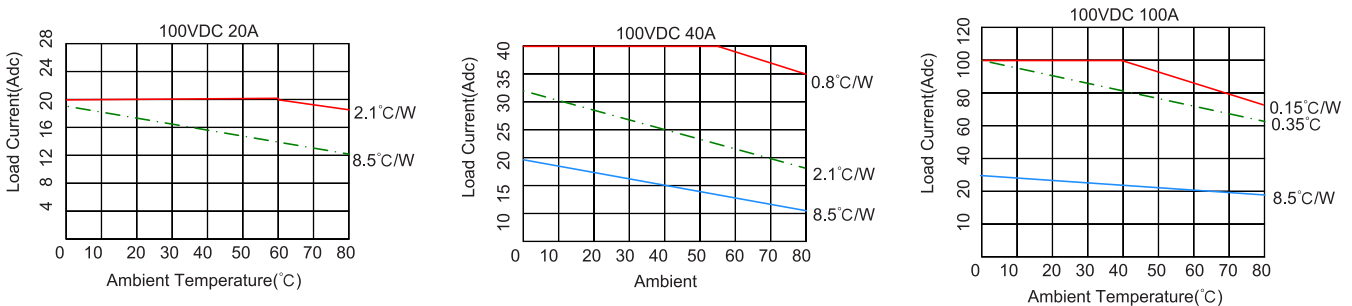
Dielectric Strength (50/60Hz)  
 Input/Output :  $\geq 2500V_{rms}$   
 Input, Output/Base :  $\geq 2500V_{rms}$   
 Ambient Operating Temperature Range :  $-30^{\circ}C$  to  $+80^{\circ}C$   
 Ambient Storage Temperature Range :  $-30^{\circ}C$  to  $+100^{\circ}C$   
 Weight (Typical) (Quick Connection Terminal) : 90g

## Diagram



Dimensions : Millimetres

## Thermal Curve



## Part Number Table

Description	Part Number
SSR, 20A, 100V DC	MCKSJ100D20-L
SSR, 40A, 100V DC	MCKSJ100D40-L
SSR, 100A, 4-32V DC, 0-100V DC	MCKSJ100D100-L

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