

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 DC
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 μ s
Max. Turn-off Time	: 100 μ s
Max. Off-State Leakage Current [@ Rated Voltage]	: 0.1mA
Max. On-state Resistance (100V DC)	
20A, 40A	: 13m Ω max. (@TA=25°C)
100A	: 6.5m Ω max. (@TA=25°C)

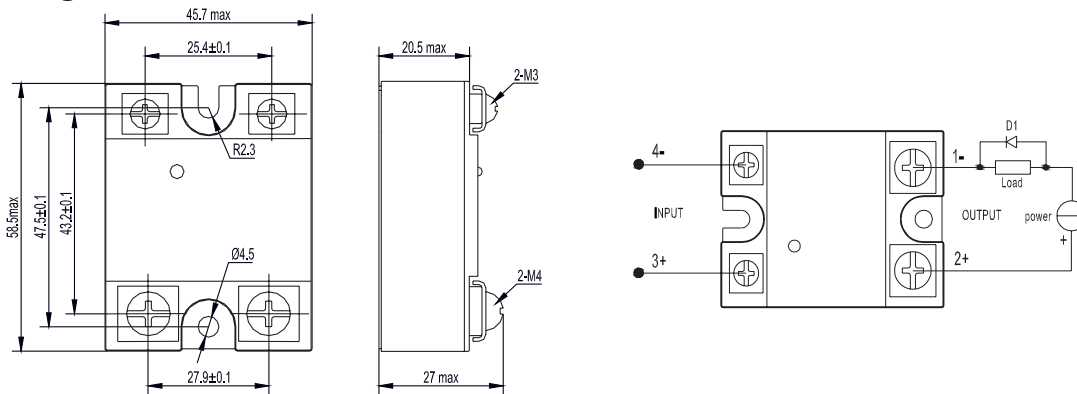
Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

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General Information

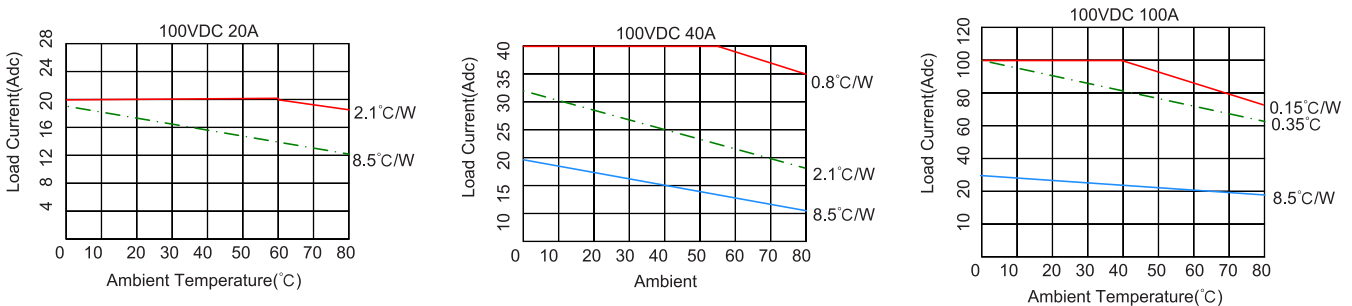
Dielectric Strength (50/60Hz)
 Input/Output : $\geq 2500V_{rms}$
 Input, Output/Base : $\geq 2500V_{rms}$
 Ambient Operating Temperature Range : $-30^{\circ}C$ to $+80^{\circ}C$
 Ambient Storage Temperature Range : $-30^{\circ}C$ to $+100^{\circ}C$
 Weight (Typical) (Screw) : 90g

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, 100V DC	MCKSJ100D100-L

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