

Solid State Relays

Vdc Input/ Vdc Output

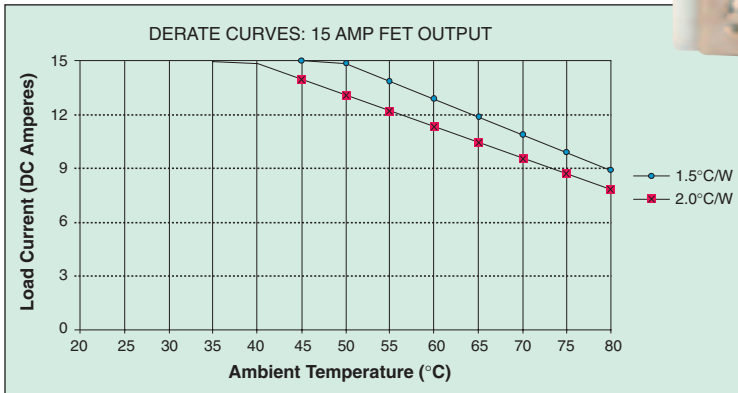
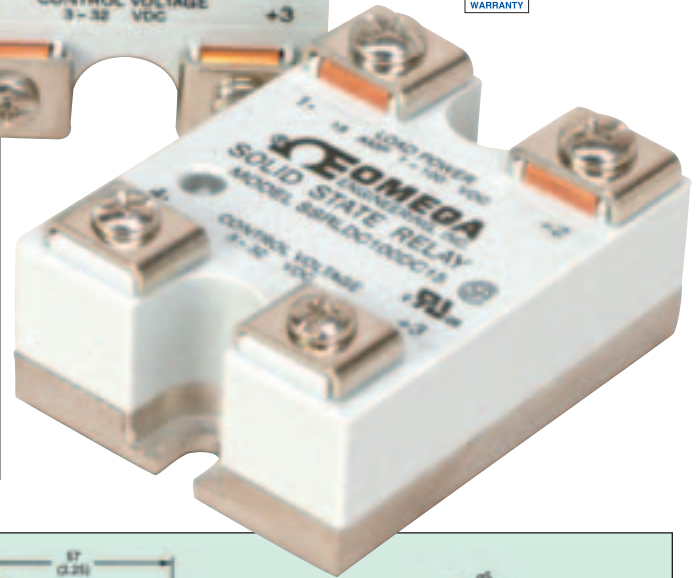
- Controls up to 15 Amp @ 100 Vdc
- Advanced Semiconductor Technology
- Compatible with Most Logic Systems



Shown smaller than actual size

SSRLDC100DC15

\$56



OMEGA® dc single output solid-state relays incorporate power MOSFET's which feature freedom from second breakdown, fast switching, ease of paralleling and temperature stability.

The output switching capability of these relays is 100 mA through 15 Amps at 100 Vdc. The (SPST, normally open) output has 2500 VRMS of isolation from the mounting base and input circuit.

Specifications

Operating Temperature: -20 to 80°C

Storage Temperature: -40 to 100°C

Input to Output Isolation: 4000 Vrms

Input/Output to Ground Isolation: 2500 Vrms

Input to Output Capacitance: 8pF (typical)

Housing Material: UL 94V0 (self-extinguishing)

Output Characteristics

Voltage Range: 1 to 100 Vdc

Off-State Leakage: 0.01 mA

Output Current (Mounted on Proper Heat Sink, See Deratings): 15 Amp

Minimum Current: 0.1

Max. 1-Second surge Current: 120

Max. On-State Voltage Drop: N/A

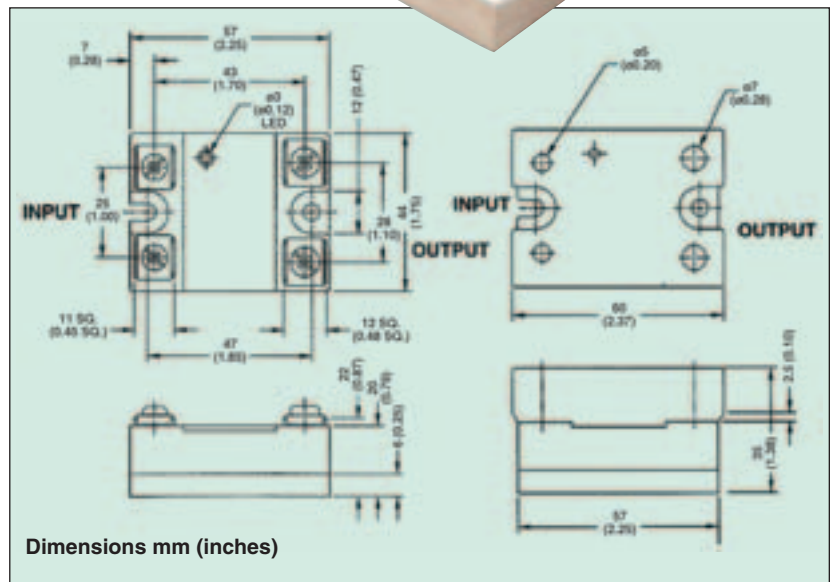
Max. On-State Resistance: 90 m Ohms

R_{jb} (Thermal res. Junction to Baseplate, °C/W): 4.6

Min. Heat Sink @ Ambient (for Max. Current = °C/W & Ta): 3.0 @ 25°C

Input Characteristics

Input Voltage: 3 to 32 Vdc



Drop-Out Voltage: 1 Vdc

Max. Input Current: 20 mA

Min. Input Current (for On-State): 12 mA

Input Resistance: Current regulated

Max Turn-On Time: 2 ms

Max Turn-Off Time: 50 μs

Note: A major consideration in the use of solid-state relays is the thermal design. It is essential that the user provide adequate heat sinking for the application. Also, a diode should be used to suppress transient voltages even by seemingly "non-inductive" loads.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
SSRLDC100DC15	\$56	15 Amp, 100 Vdc solid state relay output

Ordering Example: SSRLDC100DC15 is a 15 Amp, 100 Vdc solid state relay output, \$56



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