

Solid State Relays

RS4 Series

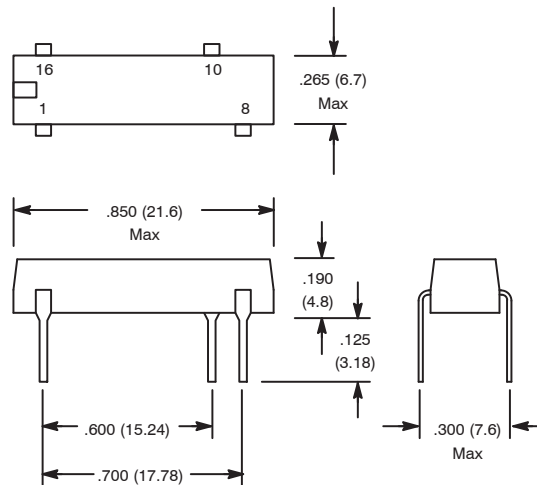


Printed Circuit Board Mountable Solid State Relay, 1 Amp.

D63

Features

- Current or Voltage Input Types
- SCR Output
- Zero Crossing Switching
- Standard 16-Lead DIP Type Package with 4 Pins



Input Specifications

RS4-1D1-A (Current Input Type)

Control Current Range: 10–35mA

Must Turn-On Current: 10mA

Must Turn-Off Current: 1mA

RS4-1D1-B (Voltage Input Type)

Control Voltage Range: 3.5–10VDC

Nom. Input Impedance: 270 Ω

Typ. Input Current (@ 5VDC): 15mA

Must Turn-On Voltage: 3.5VDC

Must Turn-Off Voltage: 1.0VDC

Output Specifications

Operating Voltage Range: 20–280V (RMS)

Load Current Range: 0.01–1.0A (RMS)

Transient Over-Voltage: 600V (Peak)

Max. Surge Current (16.6ms): 30A (Peak)

Min. Off-State dv/dt: 500V/ μ s at max. rated voltage

Max. Off-State Leakage Current: 0.01mA (RMS) at rated voltage

Max. On-State Voltage Drop: 1.2V (Peak) at rated current

Max. Turn-On Time: 1/2 cycle

Max. Turn-Off Time: 1/2 cycle

Power Factor (Min.) with Max. Load: 0.5

Electrical Specifications

Dielectric Strength (Input-Output Isolation): 3750V (RMS)

Min. Insulation Resistance (@ 500VDC): 10⁹ Ω

Max. Capacitance (Input-Output): 2.0pF

Environmental Characteristics

Operating: -30°C to +80°C

Storage: -30°C to +125°C

Pin Connection Diagram

