

Solid State Relays

RS1-1D4-21



Printed Circuit Board Mountable Solid State Relay, 4 Amp.

Features

- Thick Film Hybrid Construction
- High Current Thyristor for 100A Surge Capability
- 4KV Optical Isolation



Input Specifications

Control Voltage: 3–24VDC
Min Turn on Voltage: 3.0VDC
Max Input Voltage: 24VDC
Drop Out Voltage: 1.0VDC
Max Input Current: 25mADC
Nom Input Resistance: 1K Ohms

Output Specifications

Max Output Voltage: 280VAC
Max Output Current: 4A @ 20°C Ambient
Nom Line Voltage: 240Vrms
Min Line Voltage: 24Vrms
Max Line Voltage: 280Vrms
Max Peak Off-State Vltg: 600V peak
Static (Off-State) dv/dt: 200V/μs

Electrical Specifications

Max On-State Current: 3.5A
Min On-State Current: 0.5A
Max 1-Cycle Surge: 100A
On State Voltage Drop: 1.6V peak
Max On-State Leakage: 6.0mArms

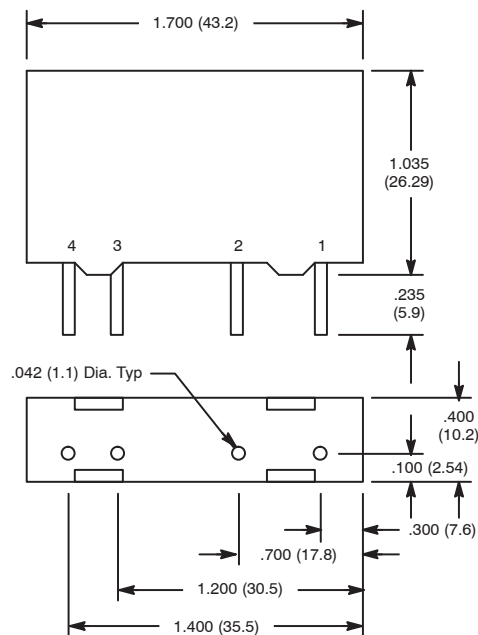
Environmental Characteristics

Operating: –30°C to +80°C
Storage: –40°C to +100°C

Operational Characteristics

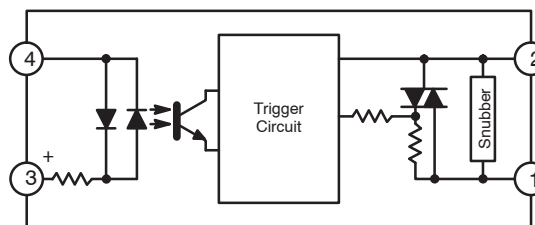
Response Time: 0.5 Cycle
Capacitance Input to Output: 8pf Max
Line Freq Range: 47 to 63 Hz

D30



Tolerance: ±0.020 (±0.50)

Equivalent Circuit



ACCESSORIES

MOUNTING STYLES	DESCRIPTION	NTE TYPE NO.
DIN RAIL MOUNT	2-POSITION SOCKET	RLY9142