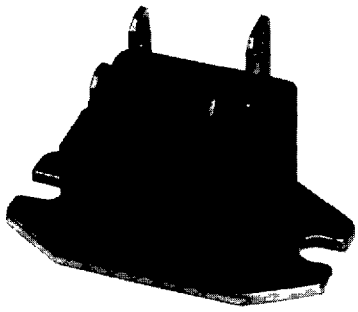
# Series S



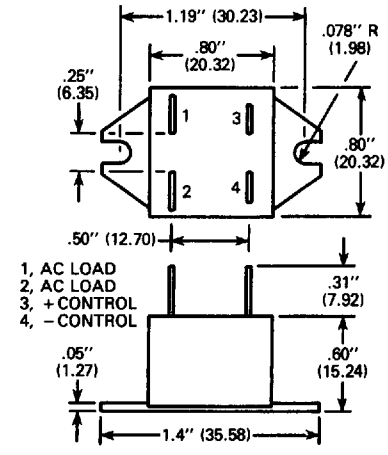
# Solid State, 10 Amp Relays, SPST — Normally Open

- Logic Compatible Inputs
- 4000 Vrms Optical Isolation
- Zero Voltage Switching
- Quick Connect Terminals
- PC Mountable
- TO-3 Transistor Type Mounting

## Ratings

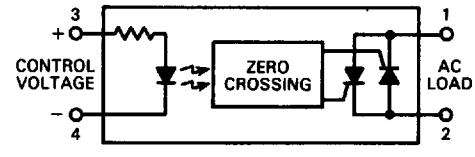
| ECG Type | Input Section | | | | Output Section | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Nominal Input Voltage Volts | Max. Input Current mA | Must Operate Voltage Volts | Must Release Voltage Volts | Nom. AC Voltage RMS 20-500 Hz Volts | RMS Current Amps | Non Repetitive One Cycle Surge Current 60 Hz RMS Amps | Line Voltage Range 20-500 Hz VAC | Off-State Current at Nom. RMS Voltage μA | Peak On-State Voltage at Rated RMS Current $V_{TM}$ Volts Max. | Min. Load Current mA | Peak Transient Over Voltage Volts |
| RLYB1020 | 5 DC | 16 | 4 | 2 | 240 | 10 | 25 | 20-240 | 1000 | 1.7 | 1 | 500 |
| RLYB1022 | 12 DC | 16 | 9 | 2 | 240 | 10 | 25 | 20-240 | 1000 | 1.7 | 1 | 500 |

**$d_V/d_t$** ..... 200 V/μS
**Duty** ..... Continuous
**Input to Output Capacitance** ..... 3.0 pF typ.
**Turn On, Turn Off Time** ..... 1/2 Cycle of Operating Frequency Max.
**Operating Temperature** ..... −25°C to 85°C
**Storage Temperature** ..... −25°C to 150°C
**Dielectric Strength**
Input to Output ..... 4000 Vrms
Terminals to Tab/Case ..... 4000 Vrms

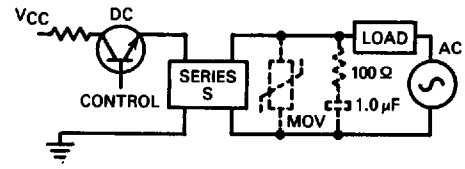



TERMINALS 1 & 2: 1/4" QUICK CONNECT
TERMINALS 3 & 4: 3/16" QUICK CONNECT

**Fig. R11**




**Schematic**




Note: Under certain low power factor load conditions, it may be advisable to connect an RC snubber network across the relay output.
A snubber is also useful in the event of severe high voltage line spikes. While these do not generally cause damage to the relay, they may induce false ½ cycle turn-on.

**Applications Drawing**