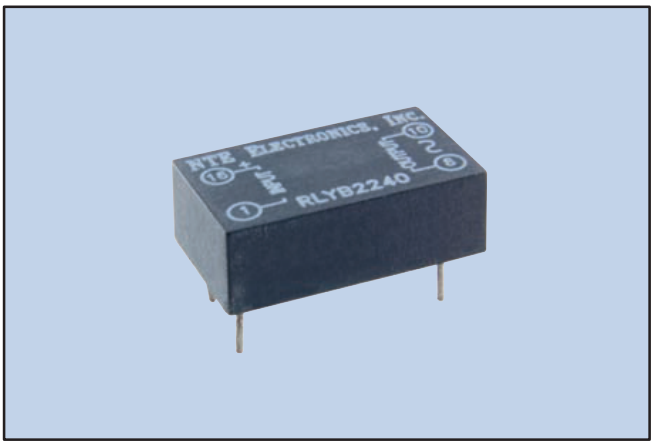
RLYB2240

PC Board Mountable, SPST−NO Solid State Relay, 1.5 Amp

Features

- Logic Compatible Inputs
- 4000V_{rms} Optical Isolation
- Zero Voltage Switching
- PC Mountable



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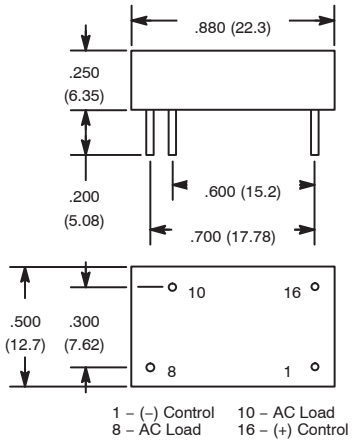
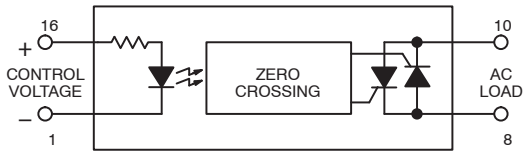
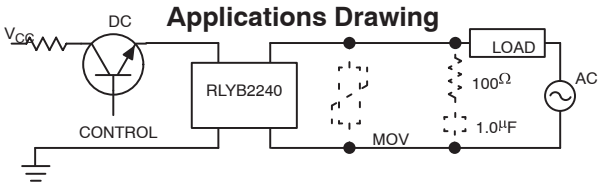


Schematic



Applications Drawing



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 cycle turn−on.

Input Specifications

Nom. Input Voltage: 5VDC
Max. Input Current: 16mA
Must Turn−On Voltage: 4VDC
Must Turn−Off Voltage: 2VDC

Output Specifications

Nom. AC Voltage RMS (20−500Hz): 240V
RMS Currernt: 1.5A
Non−Repetitive One Cycle Surge Current (60Hz): 25A (RMS)
Line Voltage Range (20−500Hz): 24−240 VAC
Off−State Current: 1000μA at nom. RMS voltage
Peak On−State Voltage (V_{TM}): 1.7V max. at rated RMS current
Peak Transient Overvoltage: 500V

Electrical Specifications

Dielectric Strength

Input To Output: 4000 VRMS
Terminals to Tab/Case: 4000 VRMS

Max. Rate of Rise Off−State Voltage (dv/dt): 200V/μs
Capacitance (Input−Output): 3.0pF typ.
Response Time: 1/2 Cycle of operating frequency max.

Environmental Characteristics

Operating: −25°C to +85°C
Storage: −25°C to +150°C