

# OC 250

## Opto Coupler • Epoxy Molded

### ABSOLUTE MAXIMUM RATINGS

#### LED

- Forward DC Current 100 mA
- Surge Current 2.5 A
- Reverse Voltage 20 V
- Power Dissipation (25°C) 1.0 W

#### Photodiode

- Reverse Voltage 25,000 V
- Power Dissipation 2.5 W

- Storage Temperature -40°C to +125°C
- Operating Temperature -40°C to +100°C
- Isolation Test Voltage 25 kV (Pins 1 and 2 to - Pins 3 and 4)

### ELECTRICAL CHARACTERISTICS

#### LED

- Forward Voltage (If = 100 mA) 9.0 V
- Reverse Leakage Current 10nA

VR = 20 V

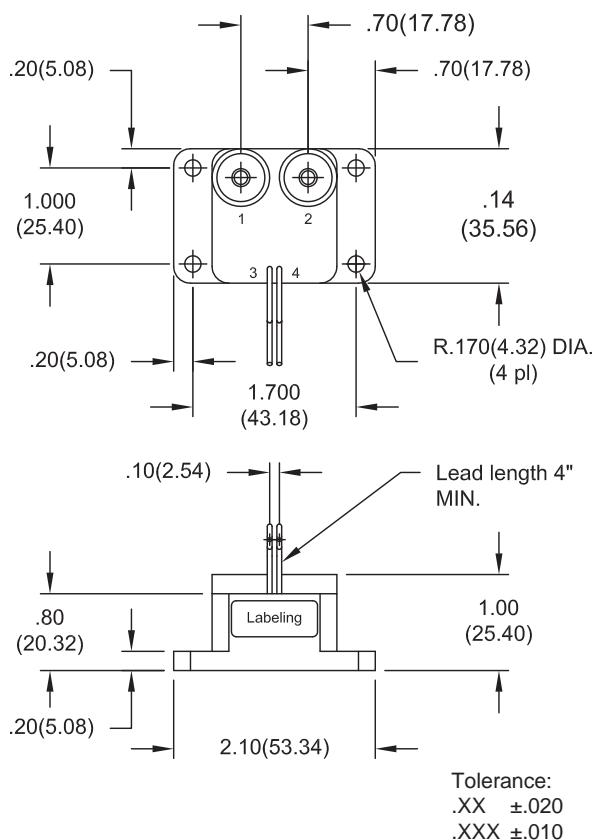
#### Photodiode

- Forward Voltage (If = 0.6 A) 36 V MAX
- Reverse Leakage Current 250 nA Typical
- VR = 25 kV,  $I_{LED} = 0$  mA 250 nA Typical
- VR = 25 kV,  $I_{LED} = 100$  mA 100  $\mu$ A Typical

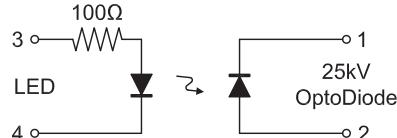
#### Coupled

- DC Current Transfer Ratio 0.068%
- ( $I_{LED} = 50$  mA, VR = 25 kV)
- $T_{ON}$  2  $\mu$ s
- $T_{OFF}$  2  $\mu$ s

(25°C UNLESS OTHERWISE NOTED)



Simplified Circuit Schematic



Dimensions: In. (mm) • All temperatures are ambient unless otherwise noted. • Data subject to change without notice.



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