## UL5-3.5G-780 LASER DIODE MODULE

# DATASHEET



#### FEATURES

- Adjustable Focus Beam
- High Stability & Low Noise
- ESD & Reverse Polarity Protected
- Custom Options Available

#### **APPLICATIONS**

- Measurement
- Automation
- Alignment

#### **Operational Hazard of Laser Module**

This laser module emits radiation that is visible/invisible and harmful to human eye. When in use, do not look directly into the laser emitting aperture. Direct viewing of laser diode emission at close range may cause eye damage.



#### **Limited Warranty**

One year. No warranty coverage for disassembly, modifications, or damage due to abuse or misapplication.



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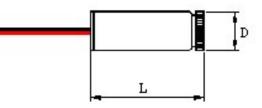
## SPECIFICATIONS

#### OPTICAL Wavelength 780 nm **Optical Output Power** 3.5 mW Laser Power Stability (with heat sink) < 1% Wavelength Drift 0.2nm/°C Laser Class Class IIIB Continuous Laser Operation Laser Structure Single Mode Laser Divergence (at collimation) < 1 mrad Spot Size Elliptical Adjustable (default) Or Collimated (5mm) at 1m < 100 µm at < 10" distance Min Spot Size **ELECTRICAL Operating Voltage** 3 to 5V DC **Operating Current** < 50 mA **Control Circuit** Auto Power Control **Electrical Connections** + Red. - Black **MECHANICAL** Dimension, mm 10.5mm (D)X 26mm (L) Cable 380mm **Operating Temperature** +10°C to +40°C Storage Temperature -40°C to +80°C Heat Sink Requirements Recommended for extended use

Notes: This laser is designed to dissipate heat through its body. Do not use a thermally insulating material for mounting. Do not restrict air circulation around the device. An additional heat sink can be used to maximize the performance and life time.

Caution: The case is internally connected to the circuit. Damaging the anodized surface may result in failure of the laser module

### **OUTLINE DRAWING**



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