

XL-PLPT5 635B - 5mW

Technical Data Sheet

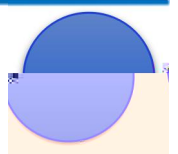
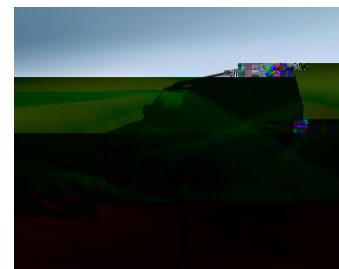
Product features

- * 5mW TC = 25°C
- Optical output power (continuous wave): 5mW (TC = 25°C)
- * 637nm
- Typical emission wavelength: 637nm
- *
- Efficient radiation source for cw and pulsed operation
- *
- Single mode semiconductor laser
- *
- High modulation bandwidth
- * TO56
- TO56 package with photo diode
- * MSL :2
- Moisture sensitivity level MSL : 2levels
- * ROHS
- Environmental protection products meet ROHS requirements



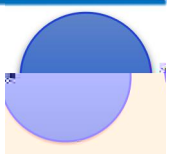
Applications

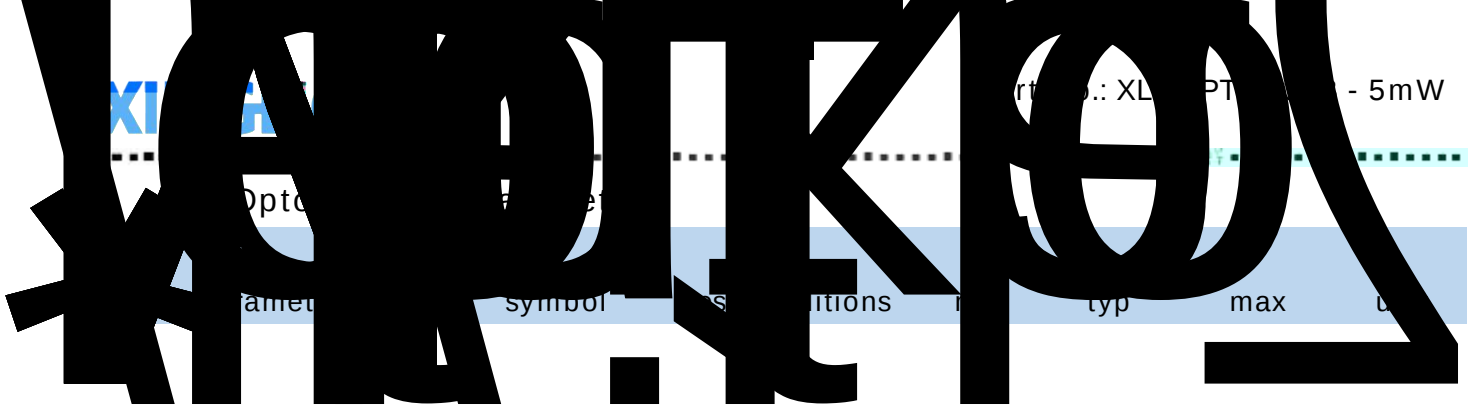
- * LiDAR/Tof
- Lidar (LiDAR/Tof) and Range Measurement
- *
- Industrial Detection and Safety Sensing
- *
- Medical and Biophotonics
- *
- Military and National Defense
- *
- Research and Quantum Technology
- *
- Consumer Electronics and Security Systems





Absolute Maximum Ratings





KL 401

Part 5.: XL 401 PT 5 - 5mW

Optical fiber

Parameter

Symbol

Units

Conditions

typ

max

min

λ

θ

θ

$\Delta \theta$

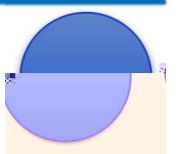
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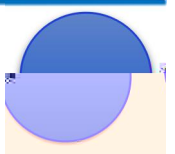
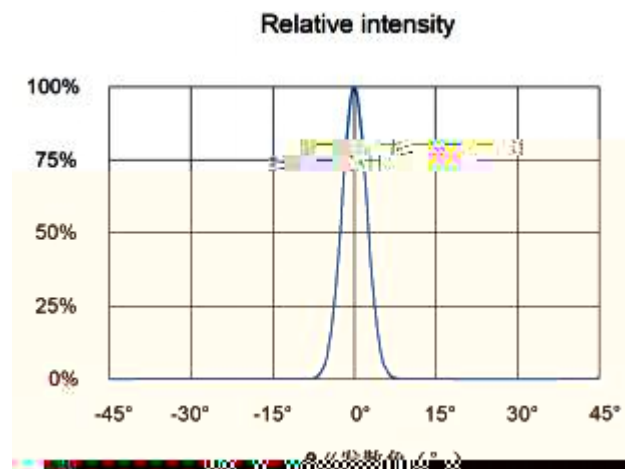
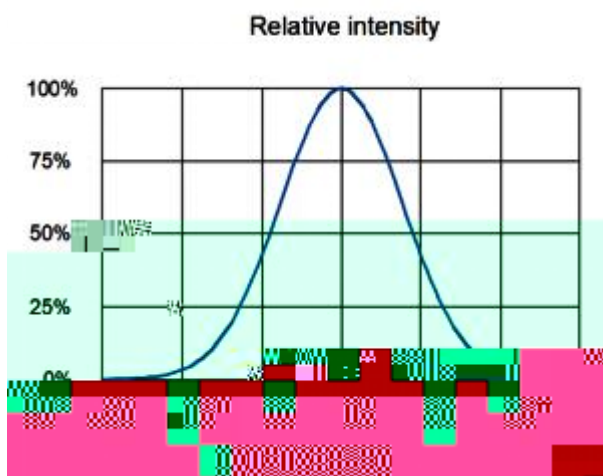
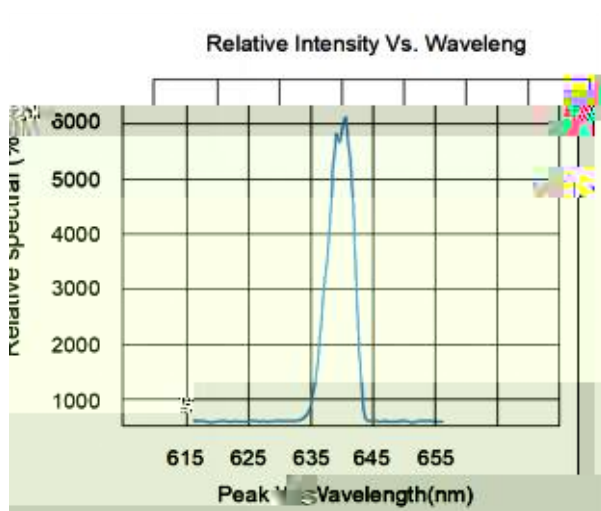
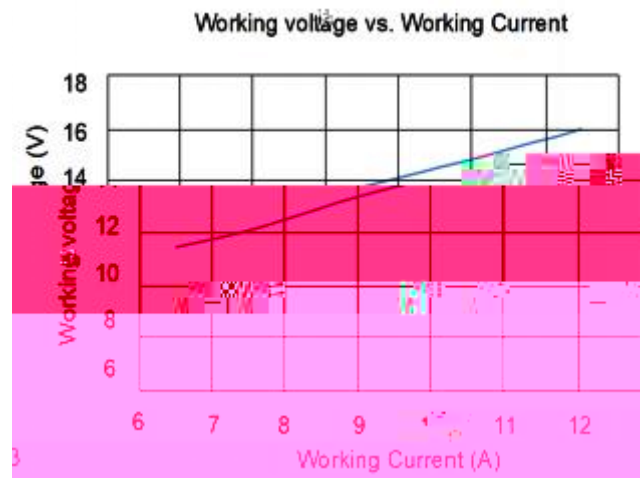
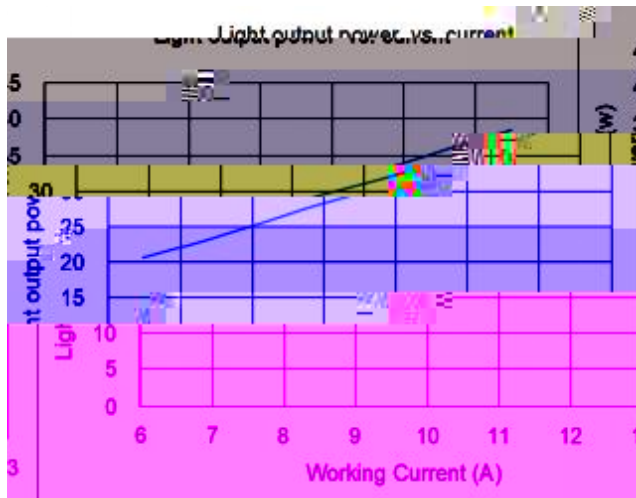
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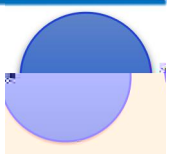
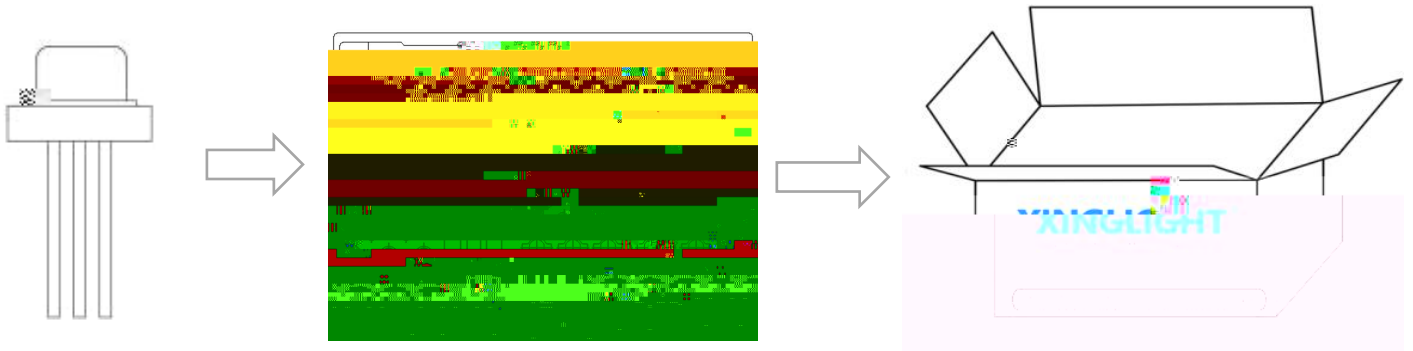
典型特性曲线

Typical Characteristics Curves



包装

Packaging



使用注意事项

Precautions

1. Feet assembly

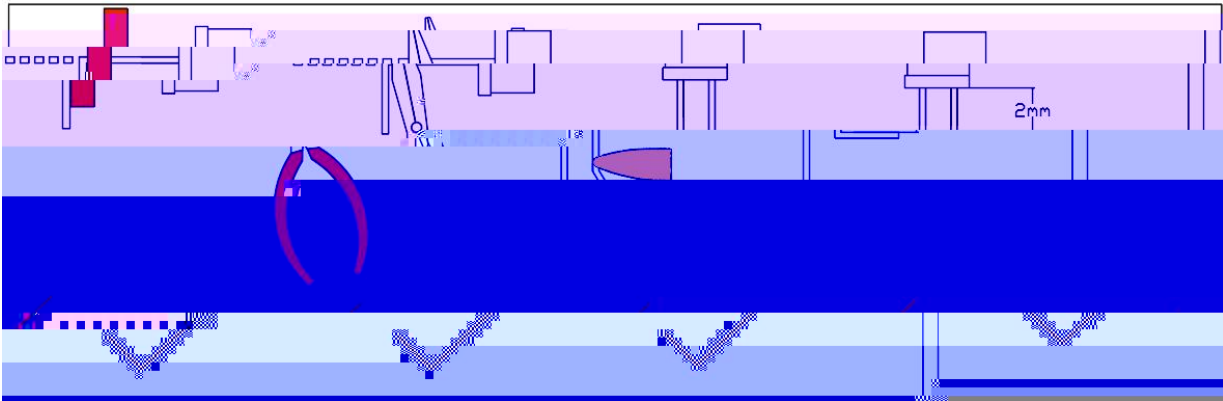
1 2

It must be 2 mm from the colloid to bend the bracket.

2

PCB

Welding must be performed at normal temperatures. Once the laser diode has been properly mounted onto the PCB, avoid applying mechanical pressure to its pins whenever possible.



2. Electrostatic protection

“ ”

HBM

<800V 3

250V-500V

<100V

Plastic-coated laser diodes do not have a fixed "protection voltage" value; their electrostatic sensitivity typically ranges from <800 V on the HBM human model (Grade 3 sensitivity), with actual tolerance usually limited to 250–500 V. Protection measures must be implemented according to the <100 V operating standard.

3.

During laser operation, avoid exposure of the eyes and skin to laser radiation.

If there are any modifications to the specification sheet, no further notice will be given.

