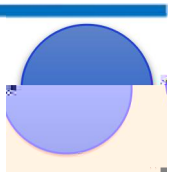
XL-PLPT5 635B - 5mW Technical Data Sheet

Product features

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

Applications

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



Absolute Maximum Ratings

Opto et

ramet	symbol	s itions		typ	max

λ

θ °

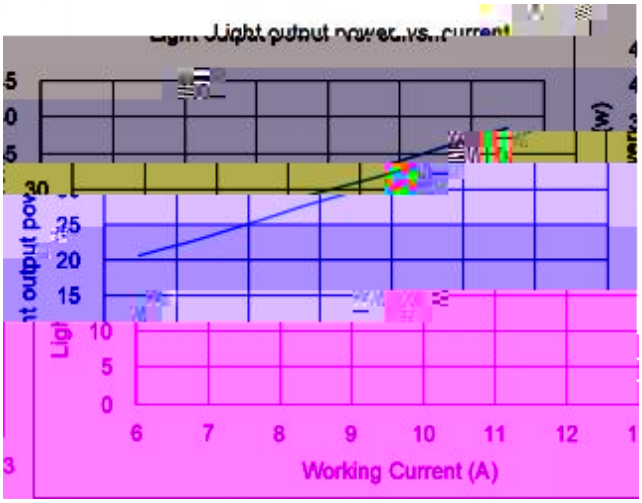
θ °

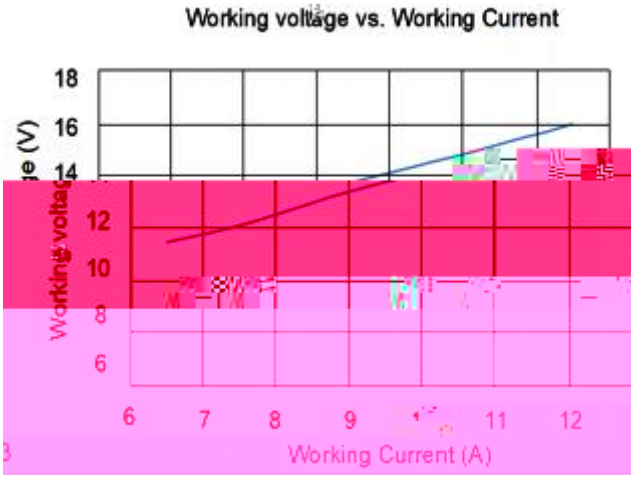
Δ θ °

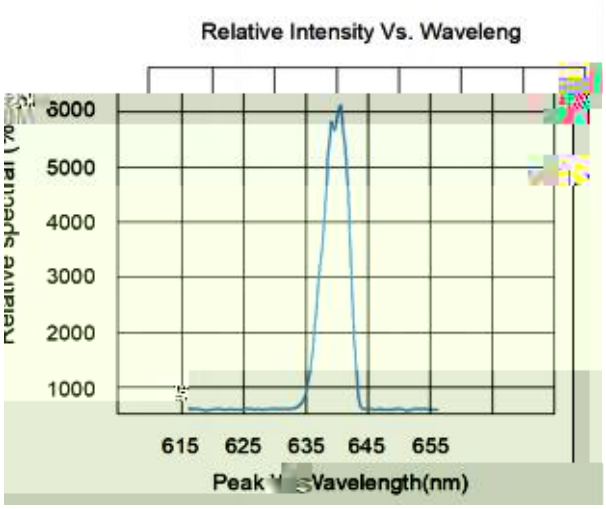
Δ θ °

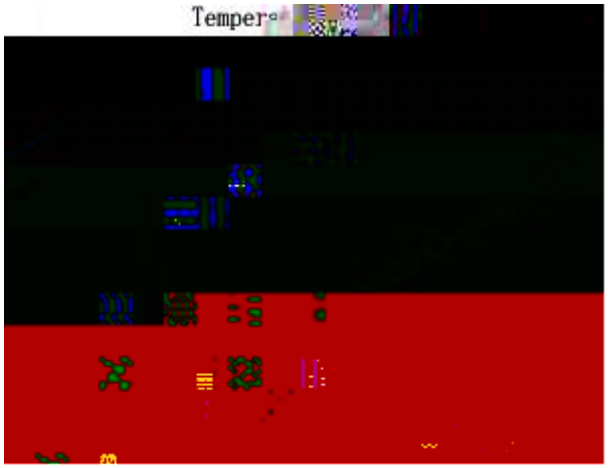
典型特性曲线

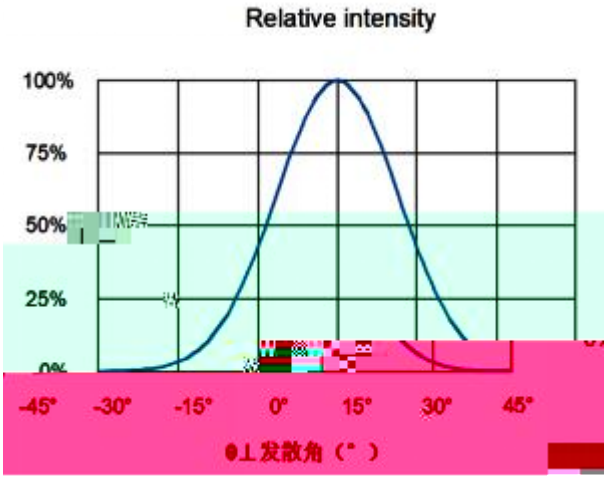
Typical Characteristics Curves

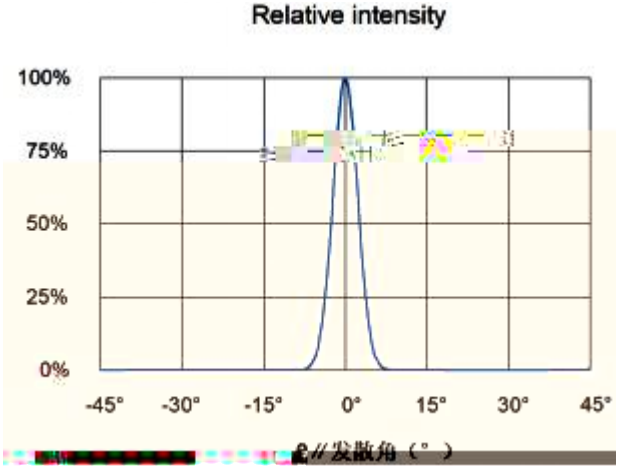






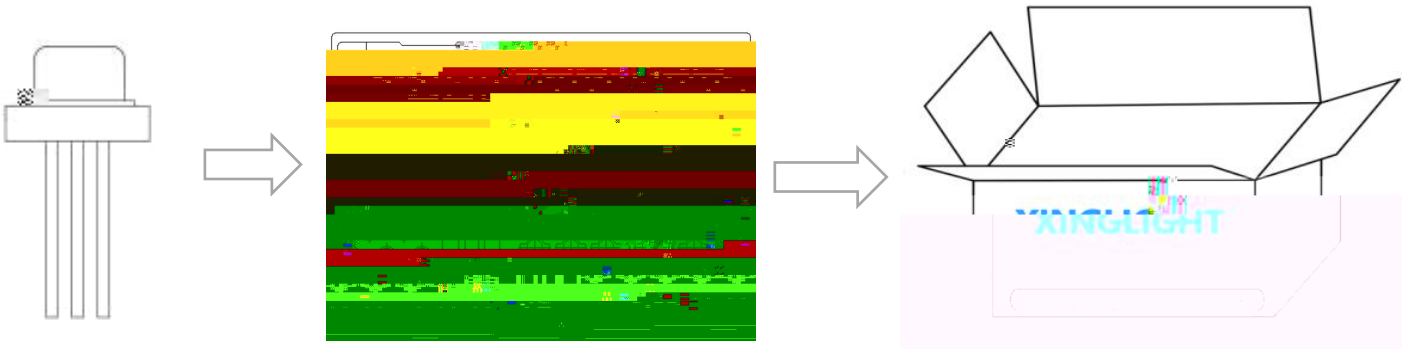






包装

Packaging



使用注意事项

Precautions

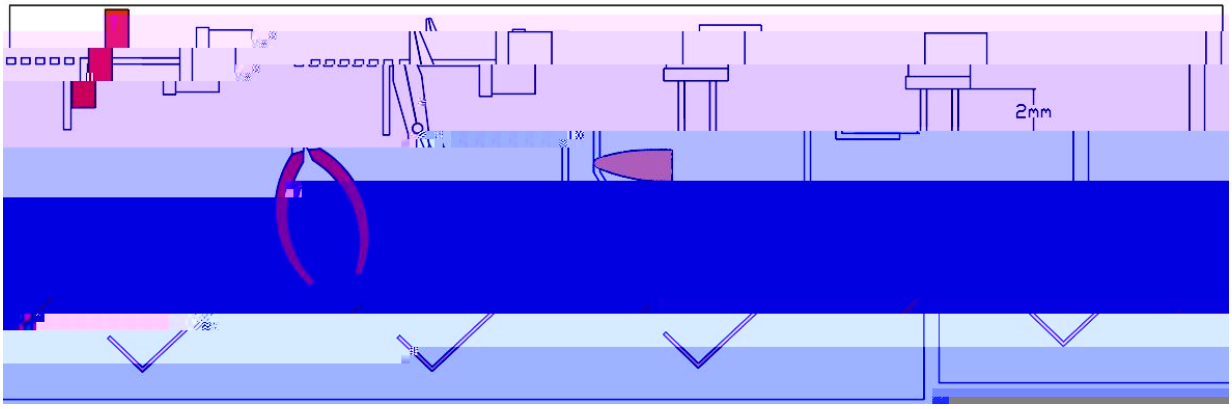
1. Feet assembly

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.