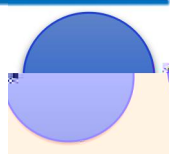
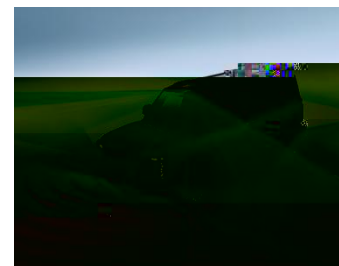


## Product features

- \* 1.2W TC = 25°C
- Optical output power (continuous wave): 1.2W (TC = 25°C)
- \* 638nm
- Typical emission wavelength: 638nm
- \* TO-56
- Metal TO-56 Package
- \*
- Efficient radiation source for cw and pulsed operation
- \*
- Single mode semiconductor laser
- \*
- High modulation bandwidth
- \* 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





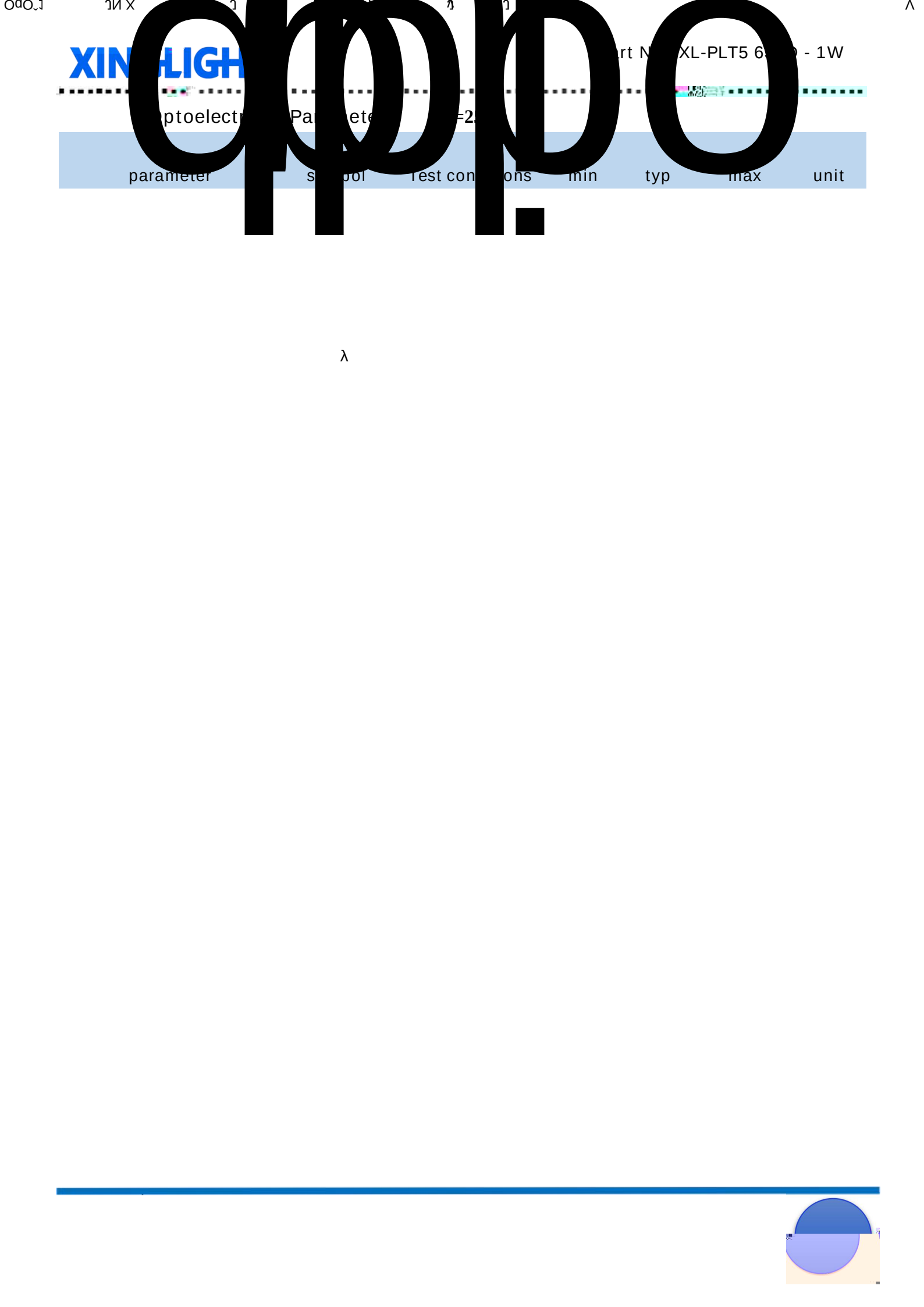
001

Absolute Maximum Ratings      Ta=25

| parameter | symbol | Value | unit |
|-----------|--------|-------|------|
|           |        |       |      |
|           |        |       |      |
|           |        |       |      |
|           |        |       |      |
|           |        |       |      |

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XIN HIGHLIGHT

Part No. XL-PLT5 6000lm - 1W

photoelectrical Parameters  $\lambda = 2.0$

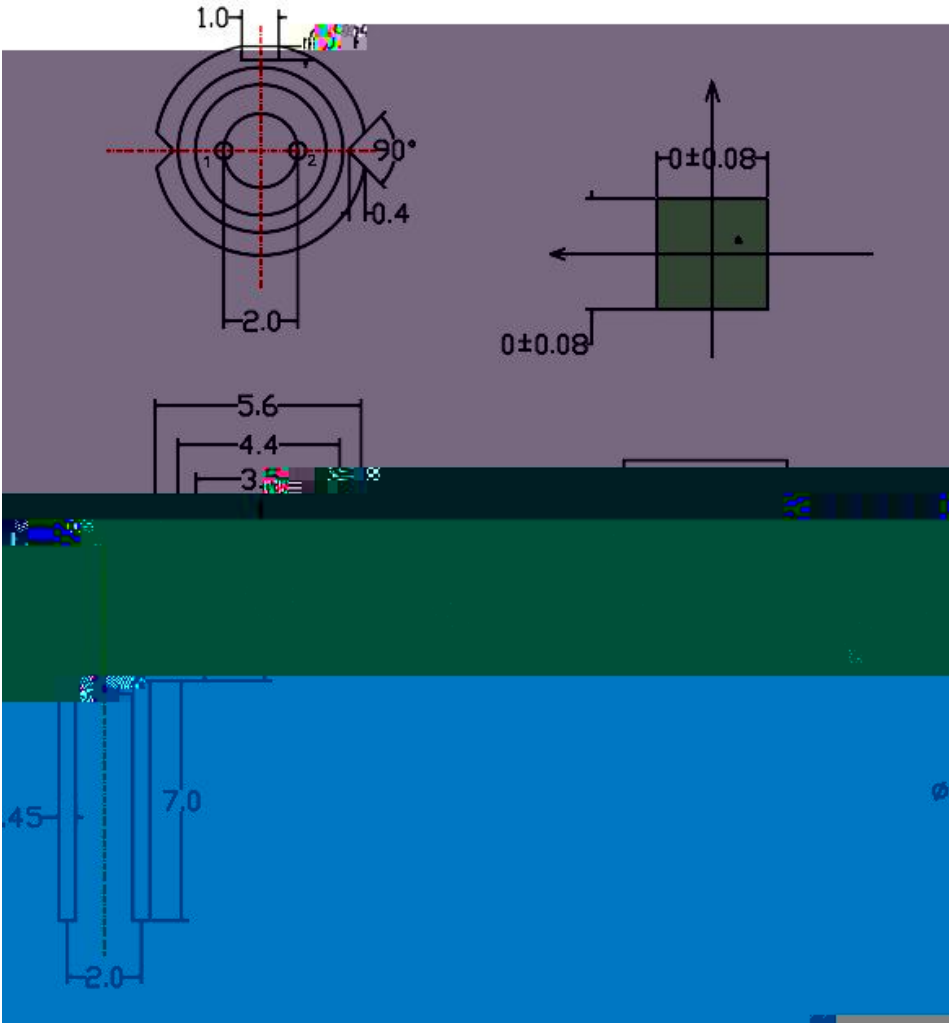
| parameter | symbol | test conditions | min | typ | max | unit |
|-----------|--------|-----------------|-----|-----|-----|------|
|-----------|--------|-----------------|-----|-----|-----|------|

$\lambda$

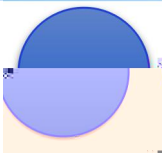


外形尺寸

Outline Dimension



- 1.
2. mm .





## 使用注意事项

### Precautions

#### 1. Feet assembly

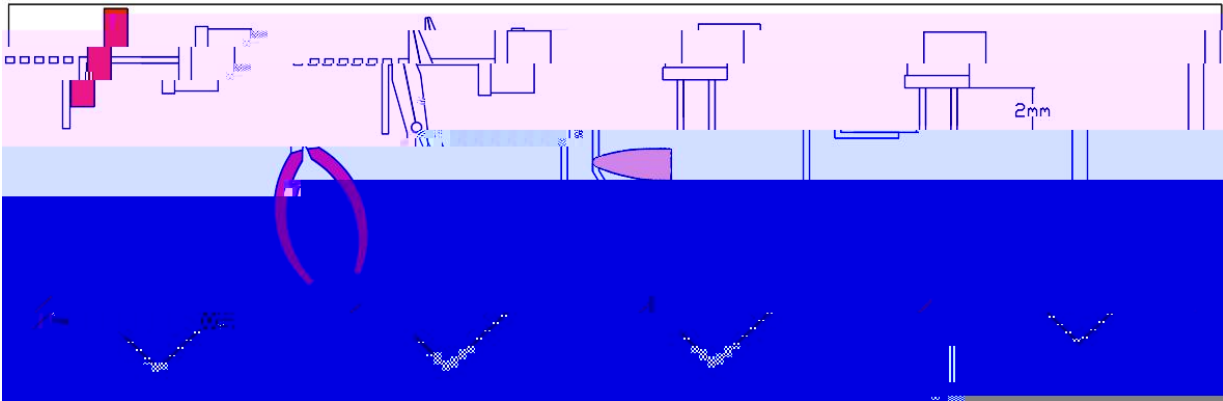
1 2

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

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, 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.

