XL-PLT9 520DA -1W Technical Data Sheet

## Product features

* 1.2W TC = 25°C

Optical output power (continuous wave): 1.2W (TC = 25°C)

* 520nm

Typical emission wavelength: 520nm

* TO-90

Metal TO-90Package

*

E cient 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

# 目录

## Catalogue

natural parameter .....3

Outline Dimensions .....5

Packaging.....6

Precautions.....7

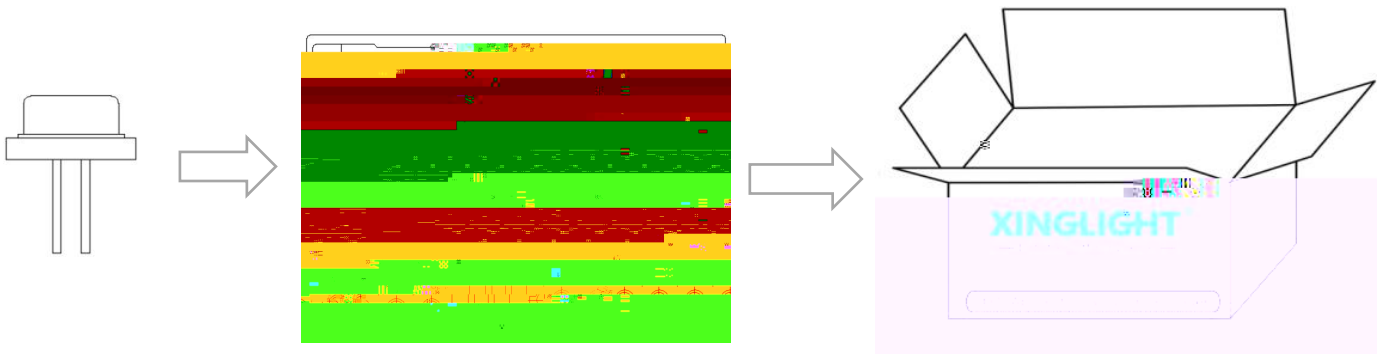
## Absolute Maximum Ratings

Optoelectronic Parameters

| parameter | symbol | Test conditions | min | typ | max | unit |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | λ | | | | | |
| | θ | | | | | ° |
| | θ | | | | | ° |
| | Δ θ | | | | | ° |
| | Δ θ | | | | | ° |
| | η d | | | | | |

# 包装

Packaging



# 使用注意事项

Precautions

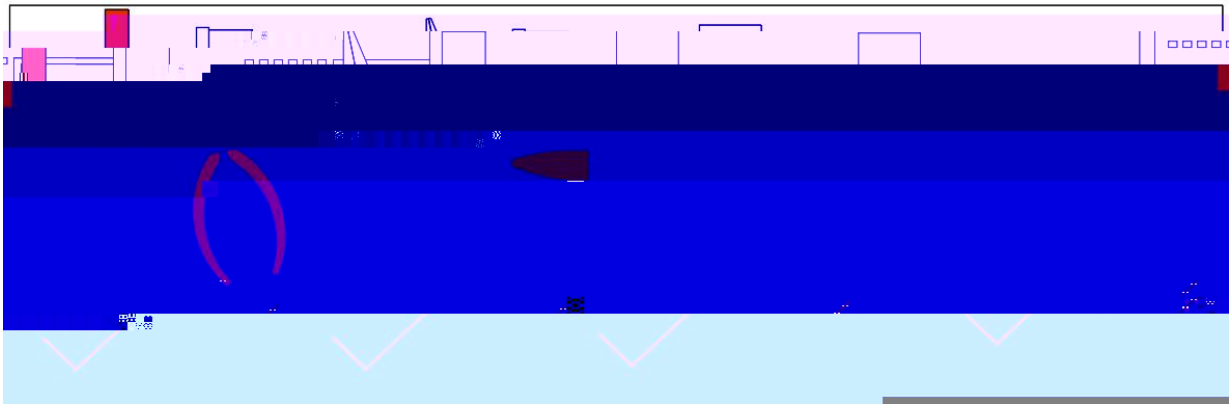
1. Feet assembly

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

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.

ī

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