

LD6505A5-1



- Applications :
Laser Pointer

- Special Features

- (1) Low threshold current with strained multi-quantum well structure.
- (2) Maximum operating temperature of 50 .

- Absolute maximum ratings (Tc=25)

| Parameter | | Symbol | Limit | Unit |
|-----------------------|----------------|--------------|---------|------|
| Output Power | | Po | 7 | mW |
| Reverse Voltage | Laser | $V_{R(LD)}$ | 2 | V |
| | PIN photodiode | $V_{R(PIN)}$ | 30 | V |
| Operating temperature | | Top | -10~+50 | |
| Storage temperature | | Tstg | -40~+85 | |

- Electrical and optical characteristics (Tc=25)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|--------------------------------|--------|------|------|------|-------|------------------------|
| Threshold Current | Ith | - | 15 | | | - |
| Operating Current | Iop | - | 20 | 25 | mA | Po=5mW |
| Operating Voltage | Vop | - | 2.1 | 2.6 | V | Po=5mW |
| Differential Efficiency | | | 0.9 | - | mW/mA | Po=3-5mW |
| Monitor Current | Im | 25 | 100 | 800 | uA | Po=5mW, VR(PIN)=15V |
| Parallel Divergence angle | //* | 6 | 8 | 16 | deg | |
| Perpendicular Divergence Angle | * | 25 | 38 | 45 | deg | Po=5mW |
| Peak Wavelength | | 645 | 650 | 660 | nm | Po=5mW |

* // and * are defined as the angle within which the intensity is 50% of the peak value.

*Transverse side mode intensity is less than 5% of the peak value.

- Im Classification:

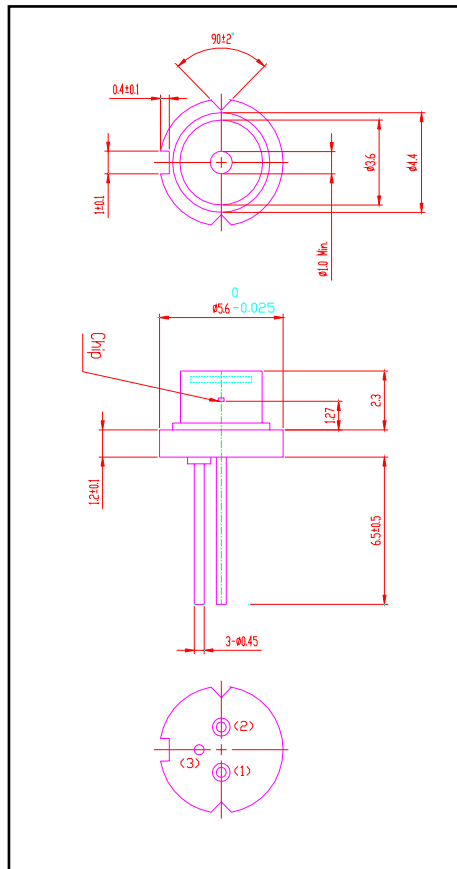
| Type | A | B | C | D | E |
|------------|---------|----------|-----------|-----------|-----------|
| Range (uA) | 25 – 50 | 50 – 100 | 100 – 200 | 200 – 400 | 400 - 800 |

- Judgment of Light shape :

- Check by visual inspection after focus by lens.
 - Light dot diameter <15mm at 15 meter from light source.
- Package and lead configuration please refer to our drawing.
 - Customized product is welcomed.

Package and Lead Configuration

- Package Drawing: Type A



- Lead Configuration:

