# Infrared Laser Diode

## Part No: LD-808-5A-30-A-3

### *Features*

※ Wavelength: λ=808nm(Type)
※ Output optical power: 500mW(CW)
※ Package: TO-5(Φ9mm)

### *Applications*

※ Industrial Use

### *Absolute Maximum Rating at Tc=25℃*

| Items | Symbols | Values | Unit |
|---|---|---|---|
| Optical Output Power | Po(CW) | 500 | mW |
| Laser Diode Reverse Voltage | Vr | 2 | V |
| Photo Diode Reverse Voltage | Vr(PIN) | 30 | V |
| Operating Temperature | Topr | -10~+30 | ℃ |
| Storage Temperature | Tstg | -40~+80 | ℃ |

### *Electrical and Optical Characteristics at Tc=25℃*

| Items | Symbols | Min | Type | Max. | Unit | Condition |
|---|---|---|---|---|---|---|
| Optical Output Power | Po | - | 500 | - | mW | CW |
| Threshold Current | Ith | - | 80 | 150 | mA | CW |
| Operating Current | Iop | - | 600 | 800 | mA | Po=500mW |
| Monitor Current | Im | - | 0.2 | 0.8 | mA | Po=500mW |
| Slope Efficiency | η | 0.5 | 0.8 | - | mW/mA | Po=500mW |
| Operating Voltage | Vop | - | 2 | 2.3 | V | Po=500mW |
| Lasing Wavelength | λ | 805 | 808 | 812 | nm | Po=500mW |
| Beam Divergence | // | 8 | 10 | 14 | ° | Po=500mW |
| | ⊥ | 30 | 35 | 40 | ° | Po=500mW |
| Beam Angle | △// | - | - | ±3 | ° | Po=500mW |
| | △⊥ | - | - | ±3 | ° | Po=500mW |
| Emission Point Accuracy | △X, △Y, △Z | -80 | - | +80 | um | - |

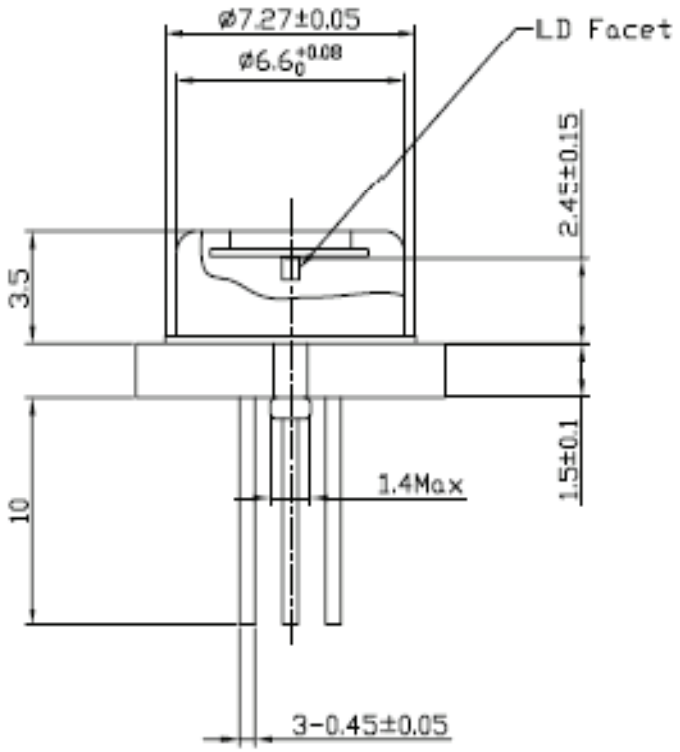
1)Measurement condition: CW
2)Full angle at half maximum.
3)All the above values are measured by OPELUS metheod.

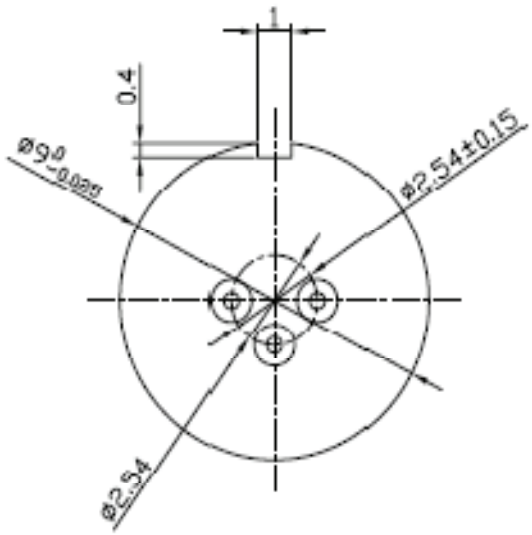
OPELUS TECHNOLOGY CORPORATION
E-mail: sales@opelus.com
Web: http://www.opelus.com

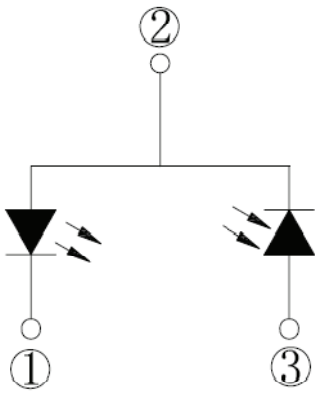
Rev.03/Oct.2007

# Infrared Diode

*Package and Electrical connection*




OPELUS TECHNOLOGY CORPORATION
E-mail: sales@opelus.com
Web: http://www.opelus.com

Rev.03/Oct.2007