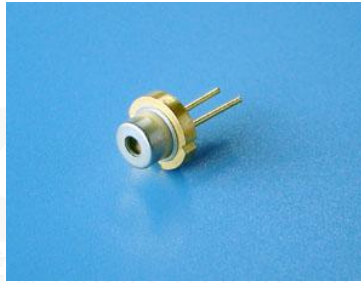


## ■ Features

- Output Power: 40mW (CW)
- Efficient Quantum Well Structure
- Standard TO-18 Package



## ■ Absolute Maximum Ratings

(Tc=25°C)

| Item                       | Symbol  | Absolute Maximum Ratings | Unit |
|----------------------------|---------|--------------------------|------|
| Optical Output Power       | Po      | 40                       | mW   |
| LD Reverse Voltage         | Vr (LD) | 2                        | V    |
| Storage Temperature        | Tstg    | -40~85-                  | °C   |
| Operating Case Temperature | Tc      | -10~60                   | °C   |

## ■ Initial Electrical/Optical Characteristics

(Tc=25°C)

| Item                       | Symbol           | Typ.   | Unit |
|----------------------------|------------------|--------|------|
| Optical Output             | Po               | 40     | mW   |
| Peak Wavelength*           | $\lambda_p$      | 705±10 | nm   |
| Threshold Current          | Ith              | ≤0.03  | A    |
| Operating Current          | Iop              | ≤0.075 | A    |
| Slope Efficiency           | $\eta$           | ≥0.9   | W/A  |
| Operating Voltage          | Vop              | ≤2.5   | V    |
| Horizontal Beam Divergence | $\theta_{//}$    | ≤9     | deg. |
| Vertical Beam Divergence   | $\theta_{\perp}$ | ≤18    | deg. |
| Spectrum FWHM              |                  | <0.35  | nm   |
| Polarization               |                  | TE     |      |

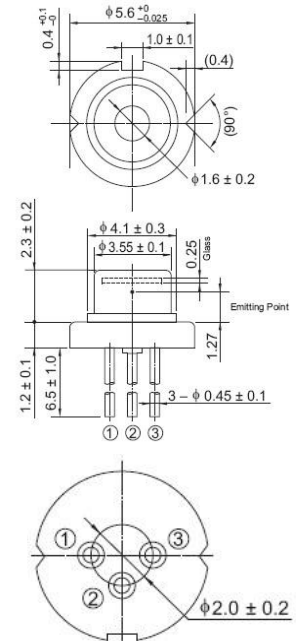
\* Measuring specifications.

All figures in this specification are measured by CNI's method and may contain measurement deviations.

The above specifications are for reference purpose only and subjected to change without prior notice.

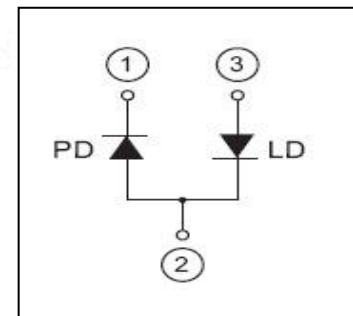
## Outline Dimension

### TO-18 Package



(Unit: mm)

## Pin Connection



▲

AVOID EXPOSURE-LASER RADIATION IS EMITTED FROM THIS APERTURE

DANGER

LASER RADIATION-AVOID DIRECT EXPOSURE TO BEAM  
Maximum Output: 500 mW Wavelength: 700-1000nm

CLASS IIIb LASER PRODUCT  
This device complies with 21 CFR 1040.10 and 1040.11  
Changchun New Industries Optoelectronics Tech. Co., Ltd.  
No. 888 Jinhua Road, High-tech Zone, Changchun, China