

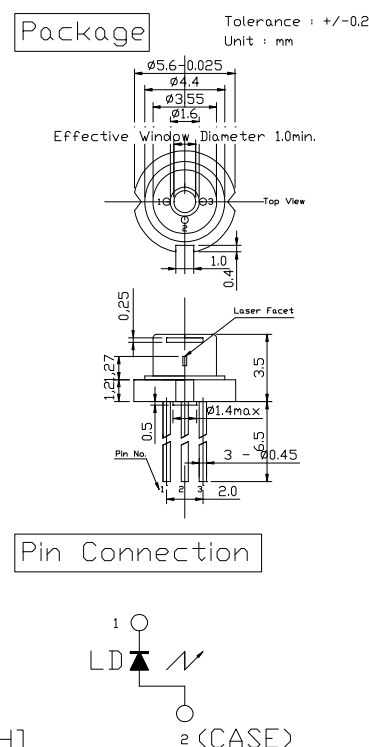
## LJ808LD300 -H4T 808nm 300mW 40°C Laser Diodes

### ■ Specifications

|               |               |
|---------------|---------------|
| Wavelength:   | 808nm         |
| Light Output: | 300mW CW      |
| Package Type: | TO-18(Φ5.6mm) |

### ■ Absolute Maximum Ratings (Tc=25°C)

| Parameter             | Symbols | Ratings   | Units |
|-----------------------|---------|-----------|-------|
| Optical Output        | Po(CW)  | 300       | mW    |
| Reverse Voltage       | Vr      | 2         | V     |
| Operating Temperature | Top     | -10 ~ +40 | °C    |
| Storage Temperature   | Tstg    | -40 ~ +80 | °C    |



### ■ Electrical and optical Characteristics(Tc=25°C)

| Parameter                     |               | Symbols                        | Conditions | Min | Typ | Max | Units |
|-------------------------------|---------------|--------------------------------|------------|-----|-----|-----|-------|
| Threshold Current             |               | Ith                            | -          | -   | 50  | 70  | mA    |
| Operating Current             |               | Iop                            | Po=300mW   | -   | 350 | 370 | mA    |
| Operating Voltage             |               | Vop                            | Po=300mW   | -   | 1.8 | 2.1 | Volts |
| Slope                         |               |                                | -          |     |     |     |       |
| Efficiency                    |               | $\eta$                         | -          | 0.8 | 1.0 | -   | mW/mA |
| Beam Divergence (FWHM)        | Parallel      | $\theta \parallel$             | Po=300mW   | 9   | 12  | 15  | deg   |
|                               | Perpendicular | $\theta \perp$                 | Po=300mW   | 28  | 30  | 35  | deg   |
| Parallel Deviation Angle      |               | $\Delta \theta \parallel$      | Po=300mW   | -3  | -   | 3   | deg   |
| Perpendicular Deviation Angle |               | $\Delta \theta \perp$          | Po=300mW   | -3  | -   | 3   | deg   |
| Emission Point Accuracy       |               | $\Delta X, \Delta Y, \Delta Z$ | Po=300mW   | -80 | -   | 80  | um    |
| Lasing Wavelength             |               | $\lambda_p$                    | Po=300mW   | 805 | 808 | 811 | nm    |

Im is sorting by custom's need

©  $\theta \parallel$  and  $\theta \perp$  are defined as the angle within which the intensity is 50% of the peak value.