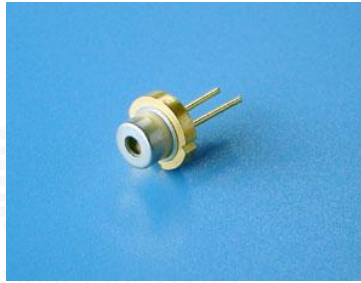




# 450nm Laser Diode

## ■ Features

- Output Power: 1400mW (CW)
- Long Lifetime
- Standard TO-18 Package



## ■ Absolute Maximum Ratings

(Tc=25°C)

Item	Symbol	Absolute Maximum Ratings	Unit
Optical Output Power	Po	1400	mW
LD Reverse Voltage	Vr (LD)	5	V
Storage Temperature	Tstg	-40~+85	°C
Operating Temperature	Top	-0~+70	°C

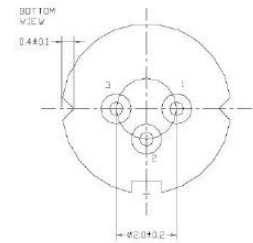
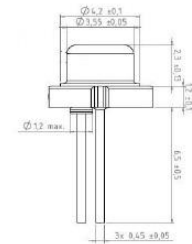
## ■ Initial Electrical/Optical Characteristics

(Tc=25°C)

Item	Symbol	Typ.	Unit
Optical Output	Po	1400	mW
Peak Wavelength*	$\lambda_p$	450±10	nm
Spectral width(FWHM)		3.0	nm
Threshold Current	I <sub>th</sub>	300	mA
Operating Current	I <sub>op</sub>	1.5	A
Slope Efficiency	$\eta$	1.0	mW/mA
Operating Voltage	V <sub>op</sub>	6.0	V
Horizontal Beam Divergence	$\theta_{//}$	≤15	deg.
Vertical Beam Divergence	$\theta_{\perp}$	≤25	deg.
Polarization		TE	

## Outline Dimension

### TO-18 Package



(Unit: mm)

## Pin Connection

1	LD(+)
2	Case
3	LD(-)

\* 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.



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