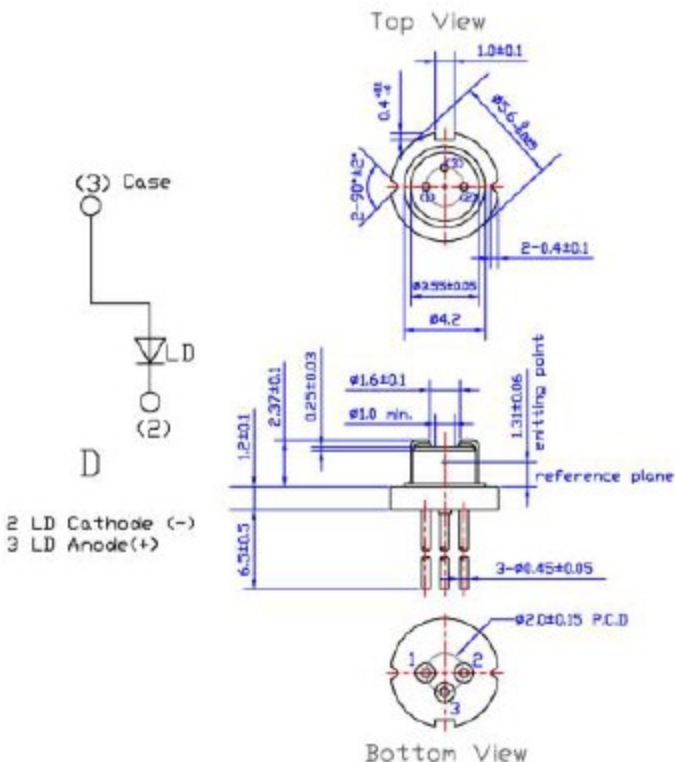


## Specifications

- (1) Device: Laser Diode  
 (2) Structure: TO-18 (  $\phi 5.6\text{mm}$  ), With Pb free glass cap, no PD  
 (3) Power Output: 500mW

## External dimensions (Unit : mm)



## Absolute Maximum Ratings ( $T_c=25^\circ\text{C}$ )

Parameter	Symbols	Ratings	Units
Optical Output	Po	500	mW
Reverse Voltage	Vr	2	V
Operating Temperature	Top	-10 ~ +40	$^\circ\text{C}$
Storage Temperature	Tstg	-40 ~ +85	$^\circ\text{C}$

### Electrical and Optical Characteristics (Tc=25°C)

Parameter	Symbols	Conditions	Min.	Typ.	Max.	Units	
Threshold Current	I <sub>th</sub>	P <sub>o</sub> =500mW	-	70	100	mA	
Operating Current	I <sub>op</sub>	P <sub>o</sub> =500mW	-	540	590	mA	
Operating Voltage	V <sub>op</sub>	P <sub>o</sub> =500mW	-	1.9	1.95	Volts	
Slope Efficiency	$\eta$	375mW-125mW	0.8	1.1	-	mW/mA	
		I <sub>375mW</sub> -I <sub>125mW</sub>					
Beam Divergence (FWHM)	Parallel	$\theta \parallel$	P <sub>o</sub> =500mW	-	10	-	deg.
	Perpendicular	$\theta \perp$	P <sub>o</sub> =500mW	-	31	-	deg.
Lasing Wavelength*	$\lambda$	P <sub>o</sub> =500mW	803	808	811	nm	

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

### Typical characteristic curves

#### Optical Output Power v.s. Forward Current

