U-LD-102071D

U-LD-1064 SERIES LASER DIODE

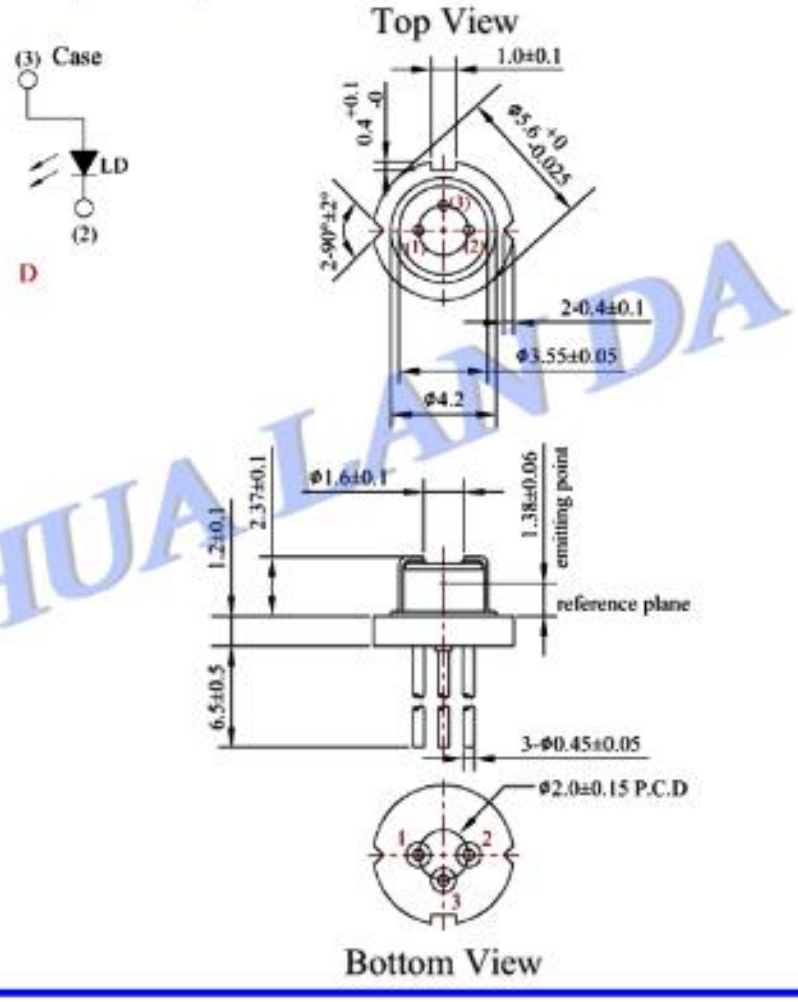
Features

1. Low operation current
2. High reliability
3. Standard optical power output：20mW (CW)
4. TO-56 (ϕ 5.6mm) Package, with Pb-free window cap.

Applications

1. Medical application

External dimensions(Unit : mm)



Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Optical Output (Tc=25℃)	Po	**30**	mW
LD Reverse Voltage (Tc=25℃)	Vr_LD	**2**	V
PD Reverse Voltage (Tc=25℃)	Vr_PD	**30**	V
Operating Temperature (Case)	Top	-10～+70	℃
Storage Temperature	Tstg	-40～+85	℃

Electrical and Optical Characteristics(Tc=25℃)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current		Ith	Po=1-5mW	-	**10.5**	-	mA
Operating Current		Iop	Po=20mW	-	**35**	**55**	mA
Operating Voltage		Vop	Po=20mW	-	**1.3**	-	V
Slope Efficiency		η	Po=5-15mW	-	**0.8**	-	mW/mA
Beam Divergence	Parallel	$\theta_{//}$	Po=20mW	-	**10**	-	deg.
(FWHM)	Perpendicular	$\theta_{\perp}$	Po=20mW	-	**32**	-	deg.
Lasing Wavelength		λ	Po=20mW	**1050**	-	**1075**	nm

◎ $\theta_{//}$ and $\theta_{\perp}$ are defined as the angle within which the intensity is 50% of the peak value.

Quality Notice

This device is still under product development, the long-term lifetime test has not been qualified yet.