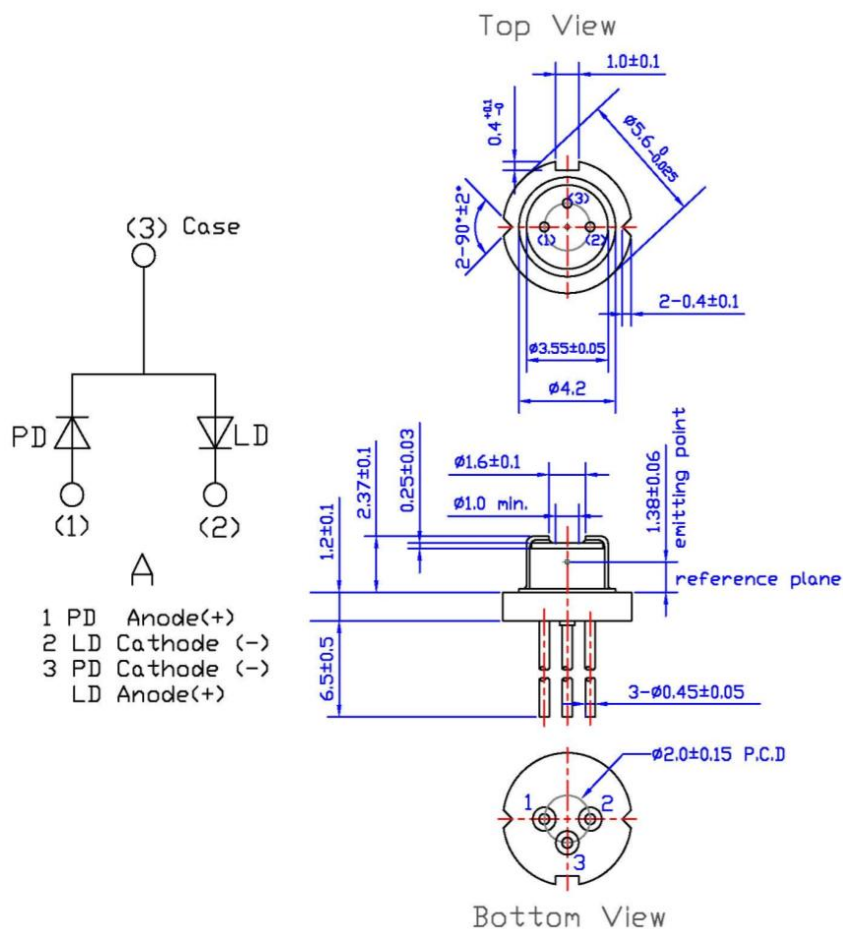


830nm IR Laser Diode LCU831061A-preliminary

■ Specifications

- (1) Device: Laser Diode
 (2) Structure: TO-18 (ϕ 5.6mm), With Pb free glass cap, PD

■ External dimensions(Unit : mm)



■ Absolute Maximum Ratings(Tc=25°C)

Parameter	Symbols	Ratings	Units
Optical Output	Po	10	mW
Reverse Voltage	Laser	Vr	2
	PIN PD	Vr(PIN)	30
Operating Temperature	Top	-10~+60	°C
Storage Temperature	Tstg	-40~+85	°C

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

Parameter	Symbols	Conditions	Min.	Typ.	Max.	Units	
Threshold Current	I _{th}	-	-	7	10	mA	
Operating Current	I _{op}	P _o =10mW	-	19	25	mA	
Operating Voltage	V _{op}	-	-	1.9	2.2	Volts	
Slope Efficiency	η	7.5mW-2.5mW	-	0.85	-	mW/mA	
		I _{7.5mW} -I _{2.5mW}					
Monitor Current	I _m	P _o =10mW	0.1	0.6	1	mA	
Beam Divergence (FWHM)	Parallel	θ //	P _o =10mW	5	11	16	deg.
	Perpendicular	θ ⊥	P _o =10mW	15	20	25	deg.
Lasing Wavelength*	λ	P _o =10mW	820	830	840	nm	

◎θ // and θ ⊥ are defined as the angle within which the intensity is 50% of the peak value.

■ Typical characteristic curves

