

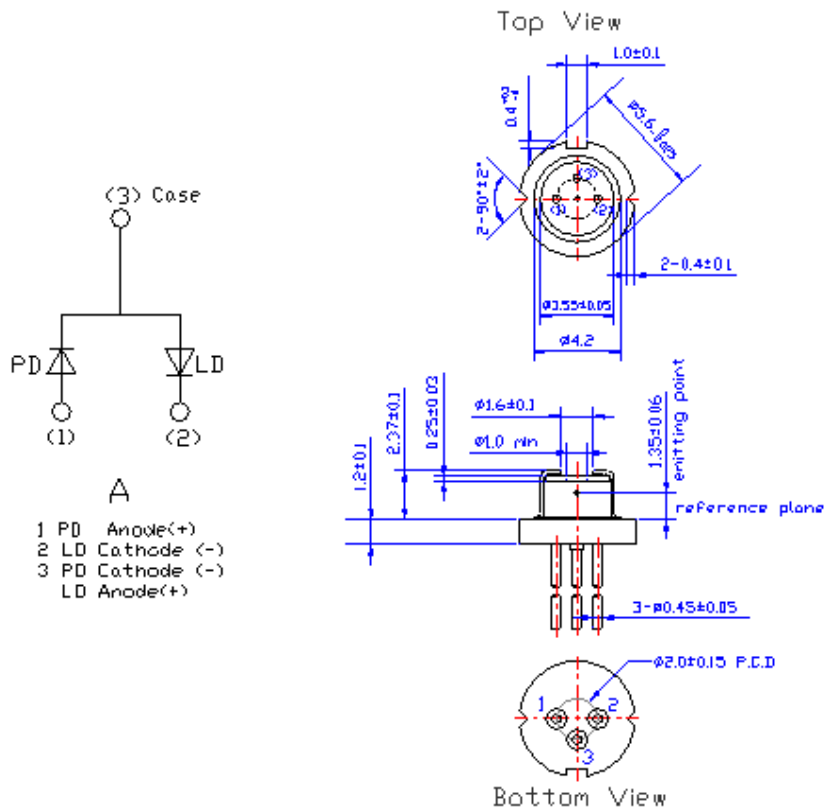
660nm Red Laser Diode

LCU66A551A-preliminary

Specifications

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

External dimensions(Unit : mm)



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

Parameter	Symbol	Value	Unit
Optical Output	Po	150	mW
Reverse Voltage	Laser	2	V
	PIN PD	30	V
Operating Temperature	Top	-10 ~ +50	$^\circ\text{C}$
Storage Temperature	Tstg	-40 ~ +85	$^\circ\text{C}$

660nm Laser Diode**■ Electrical and Optical Characteristics(Tc=25°C)**

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit	
Threshold Current	I _{th}	P _o =150mW	-	110	115	mA	
Operating Current	I _{op}	P _o =150mW	-	280	310	mA	
Operating Voltage	V _{op}	-	-	2.3	2.5	Volts	
Slope Efficiency	η	112.5mW-37.5mW	0.5	0.85	-	mW	
		I _{112.5mW} -I _{37.5mW}				mA	
Monitor Current	I _m	P _o =150mW	-	0.1	1.0	mA	
Beam Divergence (FWHM)	Parallel	θ //	P _o =150mW	5	11	17	deg.
	Perpendicular	θ ⊥	P _o =150mW	10	27	34	deg.
Lasing Wavelength	λ	P _o =150mW	655	660	665	nm	

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