

LCU66A551Ap/Bp/Dp

LCU66xx SERIES LASER DIODE

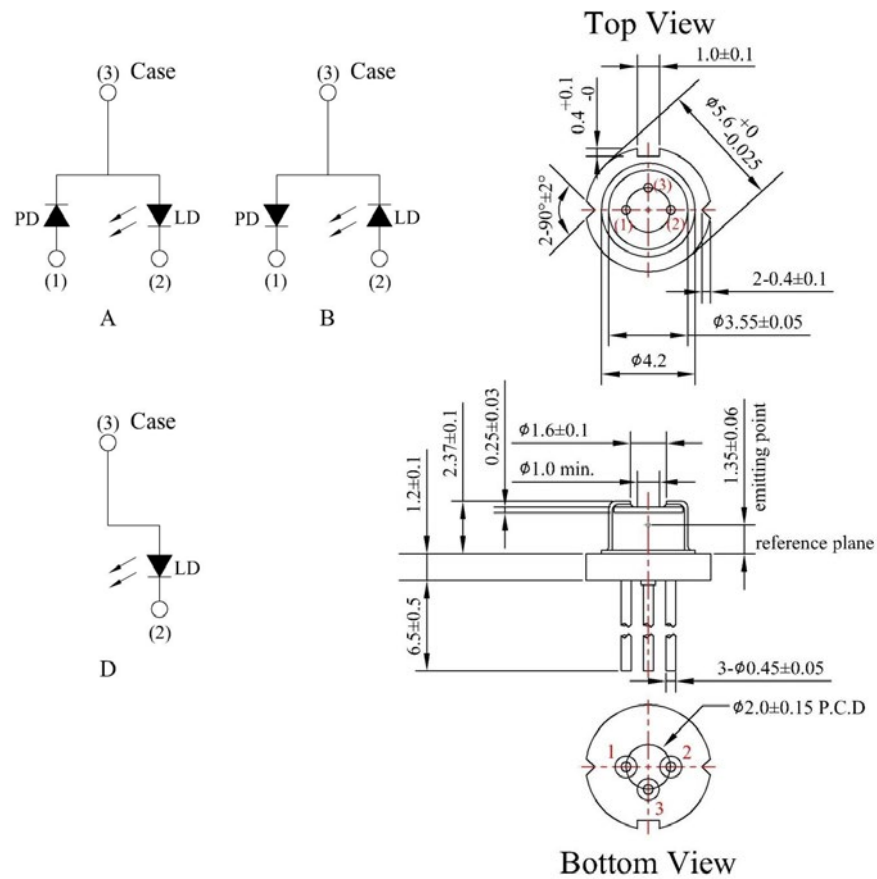
■ Features

1. High power operation
2. Standard optical power output : 150mW (CW)
3. TO-56 (ϕ 5.6mm) packaged, with Pb-free window cap.

■ Applications

1. Laser module
2. Industrial use
3. Medical application

■ External dimensions (Unit : mm)



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■ Absolute Maximum Ratings(Tc=25°C)

Parameter	Symbol	Rating	Unit
Optical Output	Po	150	mW
Reverse Voltage	Vr	2	V
Operating Temperature (Case)	Top	-10~+50	°C
Storage Temperature	Tstg	-40~+85	°C

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

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit	
Threshold Current	Ith	Po=150mW	-	100	115	mA	
Operating Current	Iop	Po=150mW	-	250	300	mA	
Operating Voltage	Vop	Po=150mW	-	2.3	2.5	Volts	
Slope Efficiency	η	Po=75-225mW	0.7	1.0	-	mW/mA	
Monitor Current	Im	Po=150mW	0.1	0.4	1.0	mA	
Beam Divergence (FWHM)	Parallel	$\theta_{//}$	Po=150mW	5	11	17	deg.
	Perpendicular	θ_{\perp}	Po=150mW	24	28	32	deg.
Lasing Wavelength	λ	Po=150mW	655	660	665	nm	

© $\theta_{//}$ and θ_{\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.

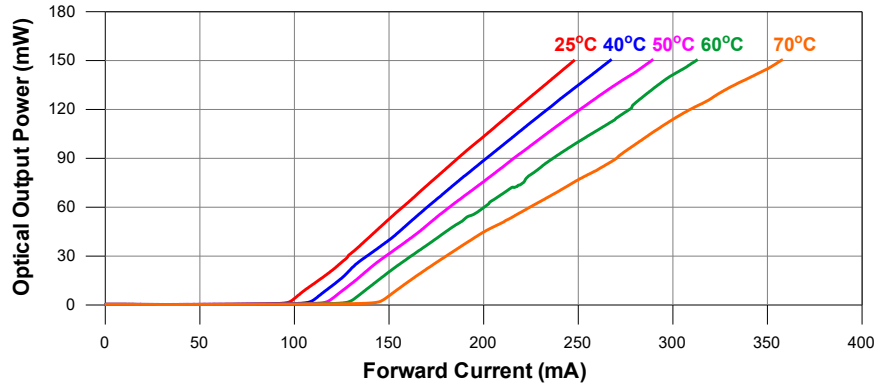
■ Typical characteristic curves

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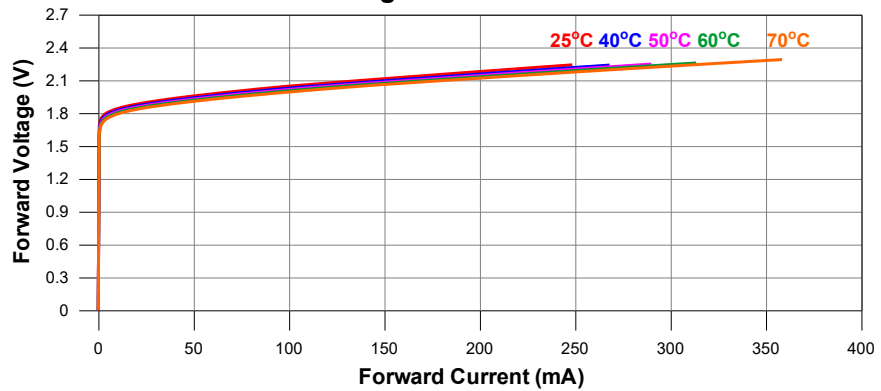
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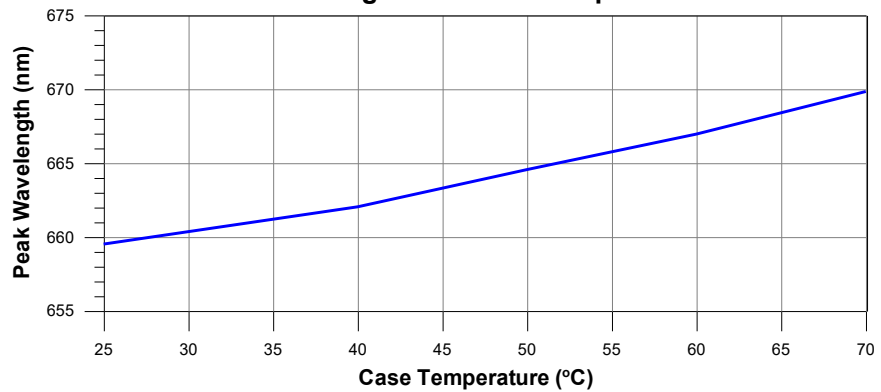
Optical Output Power v.s. Forward Current



Forward Voltage v.s. Forward Current



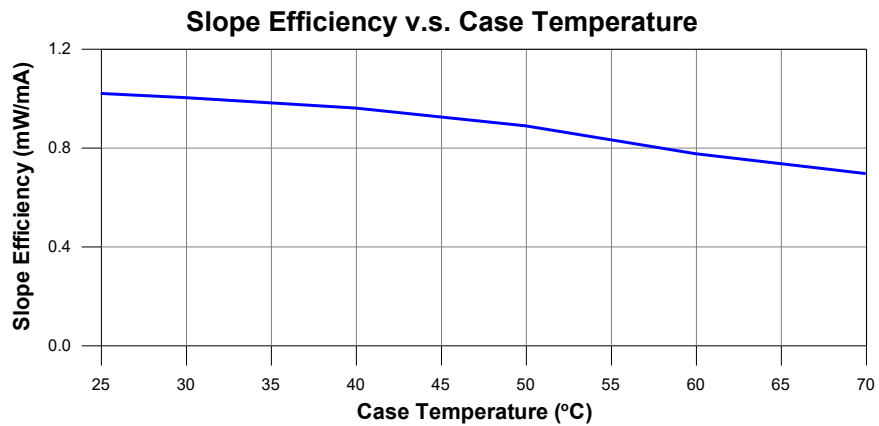
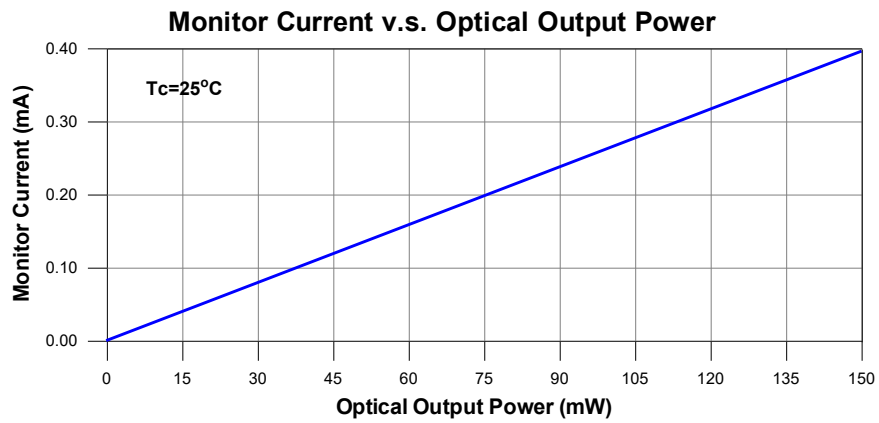
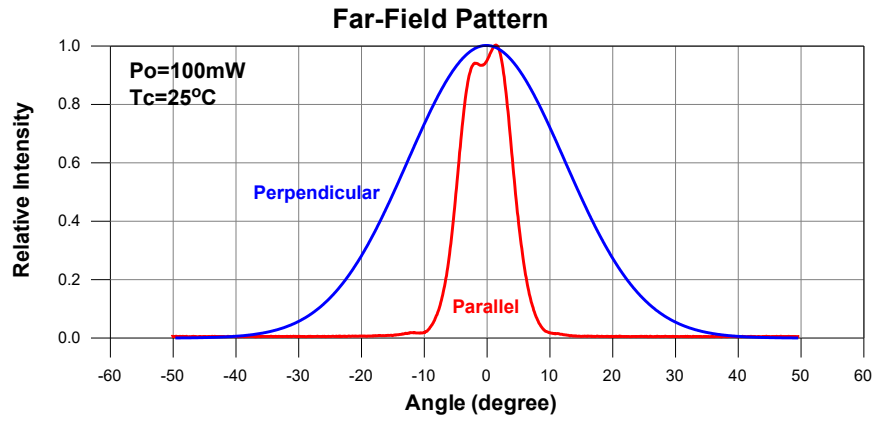
Peak Wavelength v.s. Case Temperature



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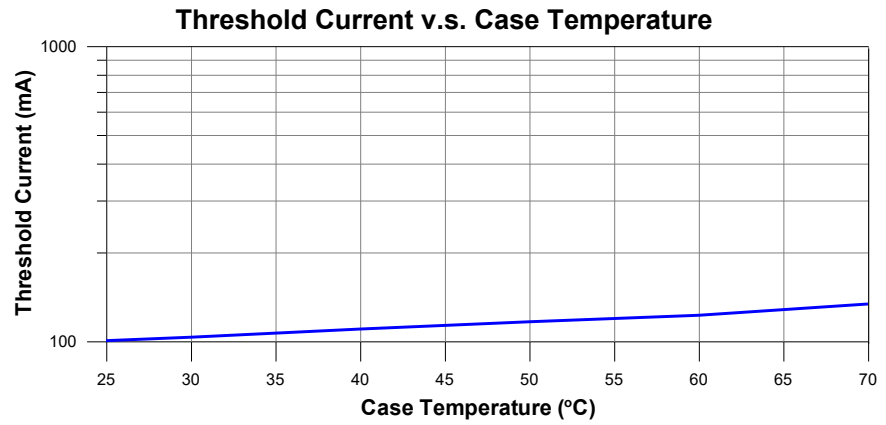
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SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.