

LCU66A051Ap/Dp

LCU66xx SERIES LASER DIODE

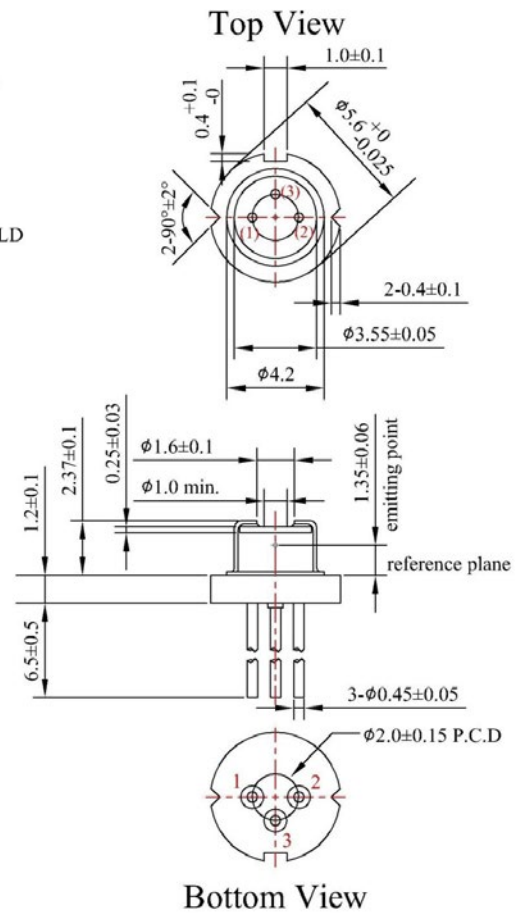
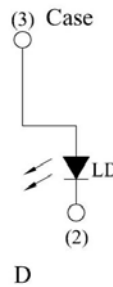
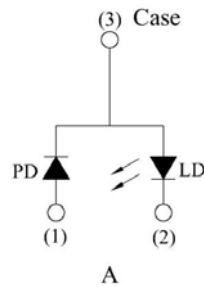
■ Features

1. High power operation
2. Standard optical power output : 100mW (CW)
3. TO-56 (ϕ 5.6mm) Packaged, with Pb-free window cap.

■ Applications

1. Laser Module
2. Lase Pointer
3. Industrial Use
4. Medical application

■ External dimensions(Unit : mm)



Ver.D

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Absolute Maximum Ratings(Tc=25°C)

Parameter	Symbol	Rating	Unit
Optical Output	Po	100	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)

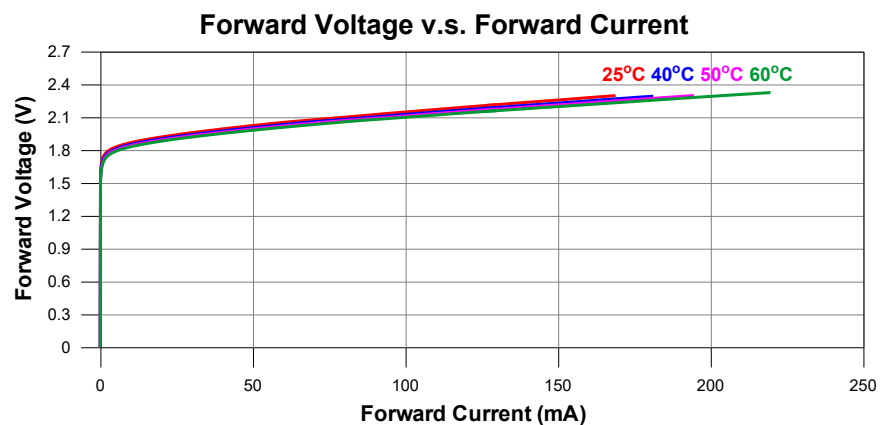
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit	
Threshold Current	Ith	Po=100mW	-	60	90	mA	
Operating Current	Iop	Po=100mW	-	170	210	mA	
Operating Voltage	Vop	Po=100mW	-	2.3	2.6	Volts	
Slope Efficiency	η	Po=25-75mW	0.7	0.9	-	mW/mA	
Monitor Current	Im	Po=100mW	-	0.3	1.0	mA	
Beam Divergence (FWHM)	Parallel	$\theta_{//}$	Po=100mW	5	11	17	deg.
	Perpendicular	θ_{\perp}	Po=100mW	24	28	32	deg.
Lasing Wavelength	λ	Po=100mW	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

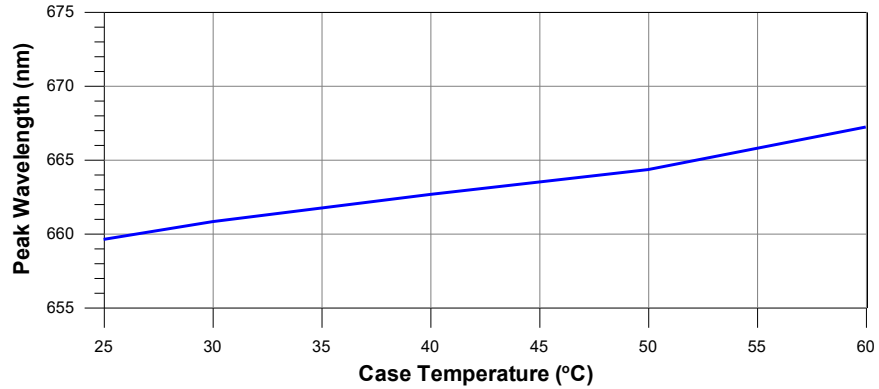


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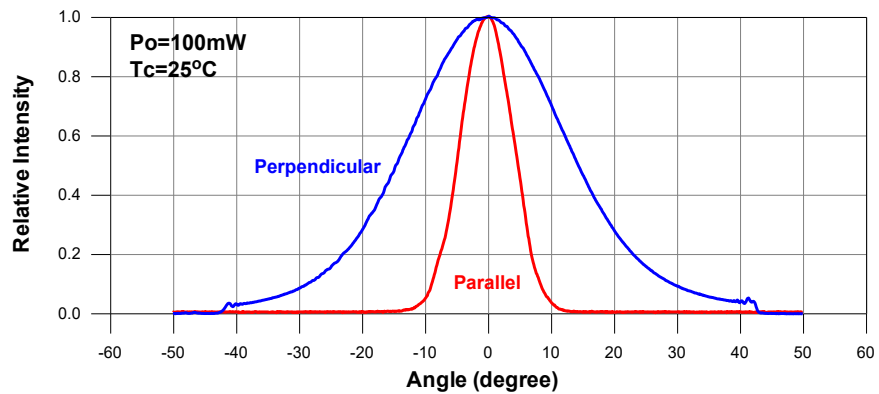
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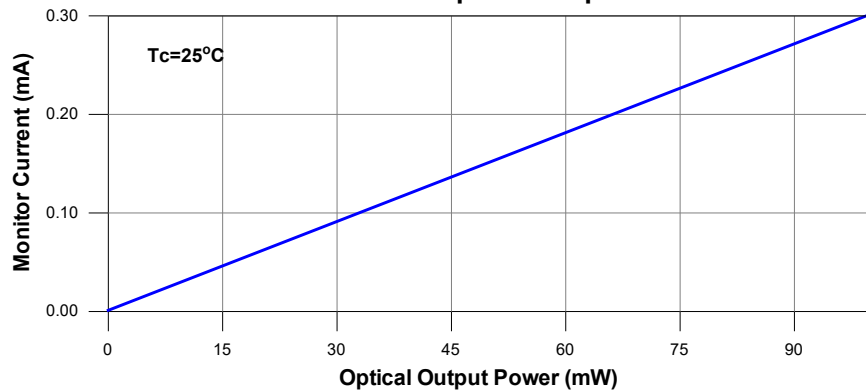
Peak Wavelength v.s. Case Temperature



Far-Field Pattern



Monitor Current v.s. Optical Output Power

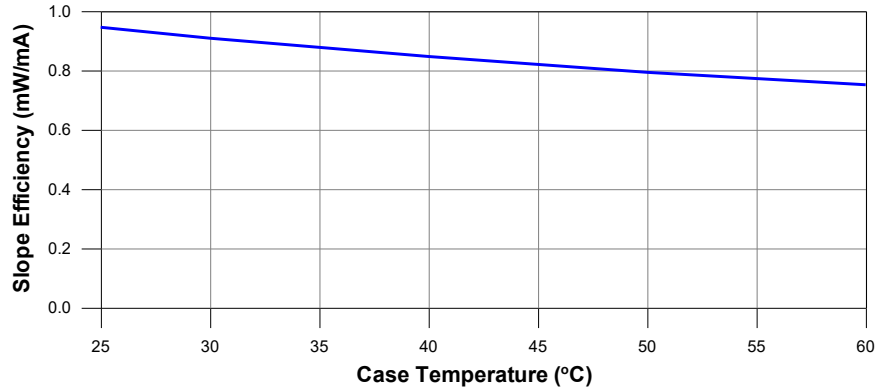


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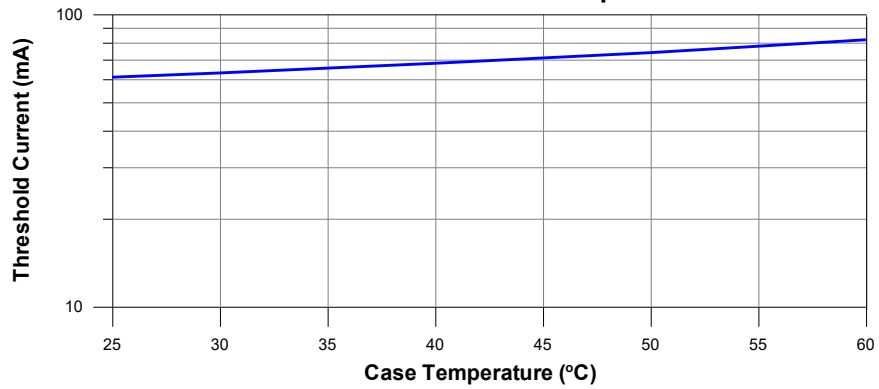
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Slope Efficiency v.s. Case Temperature



Threshold Current v.s. Case Temperature



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