

LCU670561A/D

LCU67xx SERIES LASER DIODE

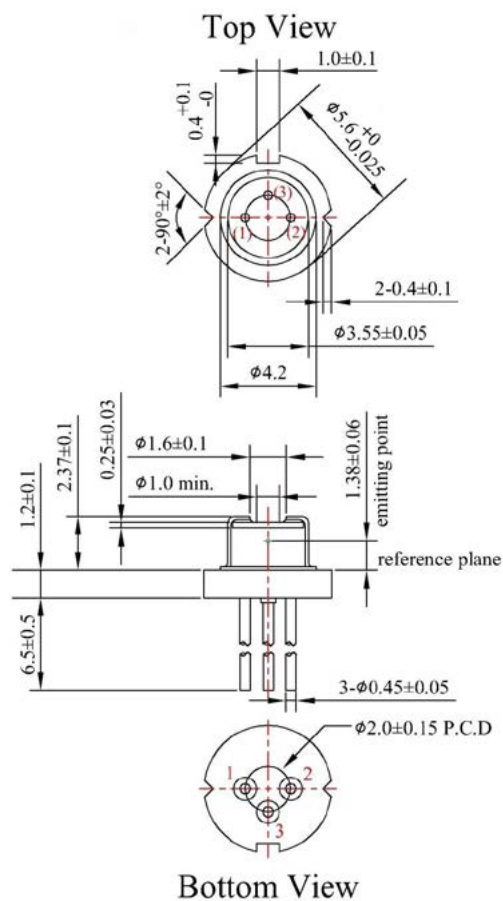
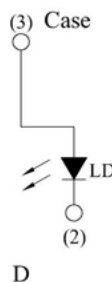
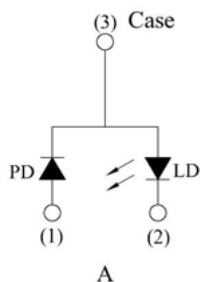
■ Features

1. Low divergence angle
2. Peak wavelength at 25°C : 670 nm (typical)
3. Standard light output : 5mW (CW)
4. TO-18 (ϕ 5.6mm) Packaged, cap window with flat Pb-free lens.

■ Applications

1. Laser Module
2. Bar code scanner
3. Medical equipment

■ External dimensions(Unit : mm)



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■ Absolute Maximum Ratings(Tc=25°C)

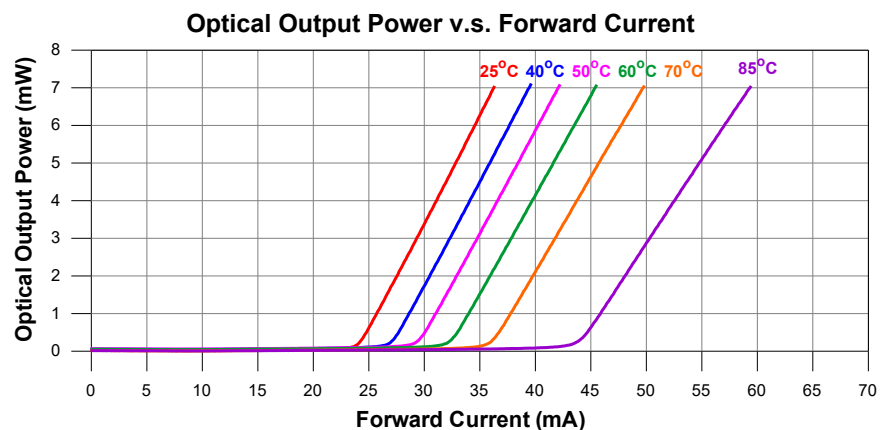
Parameter	Symbol	Rating	Unit
Optical Output	Po	7	mW
Reverse Voltage	Vr	2	V
Operating Temperature (Case)	Top	-10~+60	°C
Storage Temperature	Tstg	-40~+85	°C

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

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current	Ith	Po=5mW	-	24	28	mA
Operating Current	Iop	Po=5mW	-	33	37	mA
Operating Voltage	Vop	Po=5mW	-	2.2	2.6	Volts
Slope Efficiency	η	Po=1.25-3.75mW	0.4	0.55	-	mW/mA
Monitor Current	Im	Po=5mW	0.1	0.25	0.5	mA
Beam Divergence (FWHM)	Parallel	$\theta_{//}$	7	9	11	deg.
	Perpendicular	θ_{\perp}	25	32	35	deg.
Lasing Wavelength	λ	Po=5mW	660	670	678	nm

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

■ Typical characteristic curves

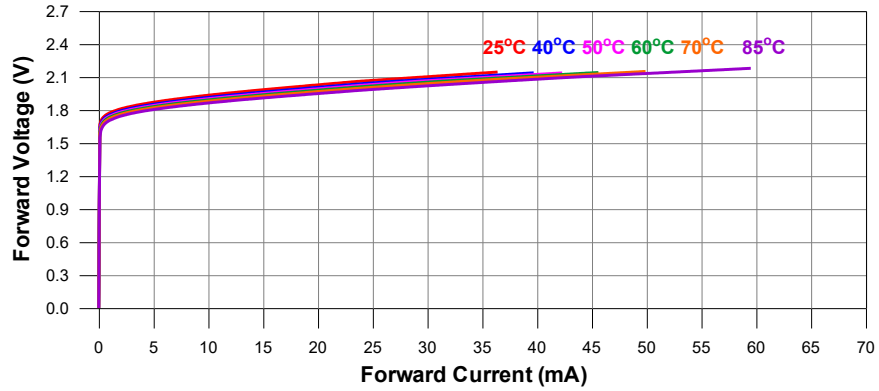


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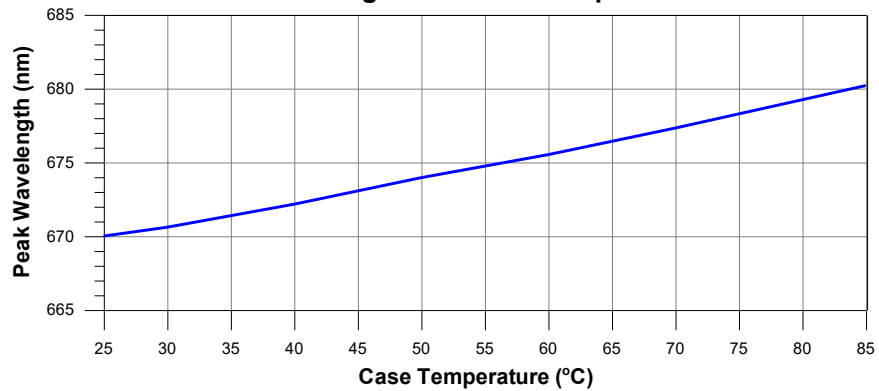
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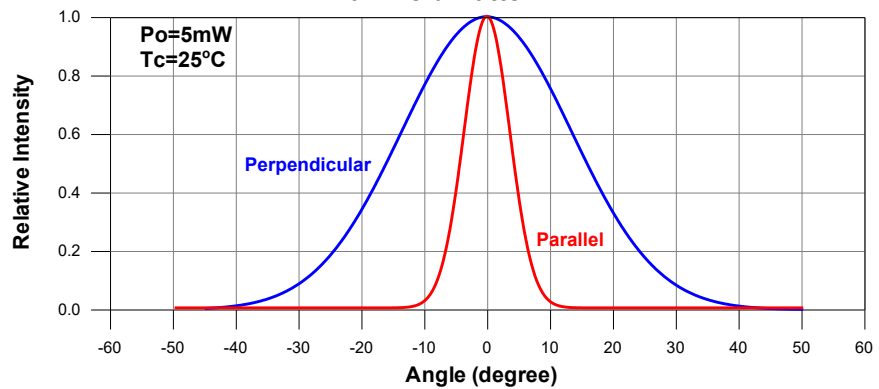
Forward Voltage v.s. Forward Current



Peak Wavelength v.s. Case Temperature



Far-Field Pattern

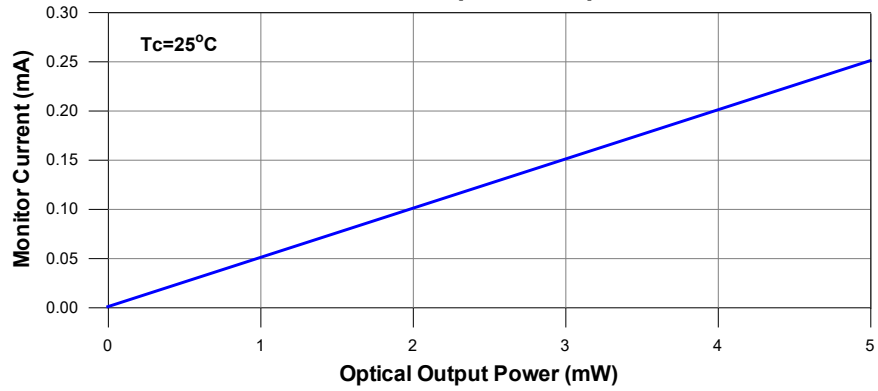


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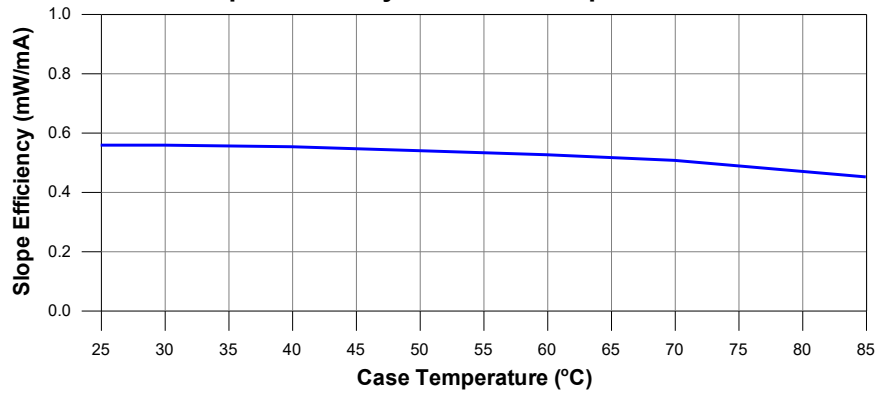
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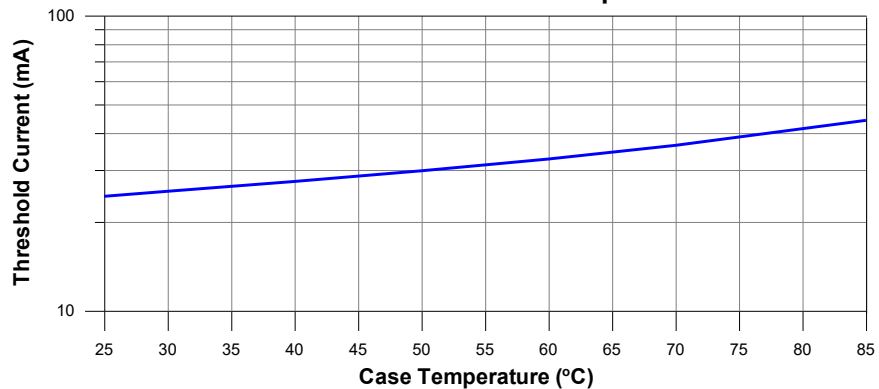
Monitor Current v.s. Optical Output Power



Slope Efficiency v.s. Case Temperature



Threshold Current v.s. Case Temperature



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SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.