

LCU98B043Ap

LCU98xx SERIES LASER DIODE

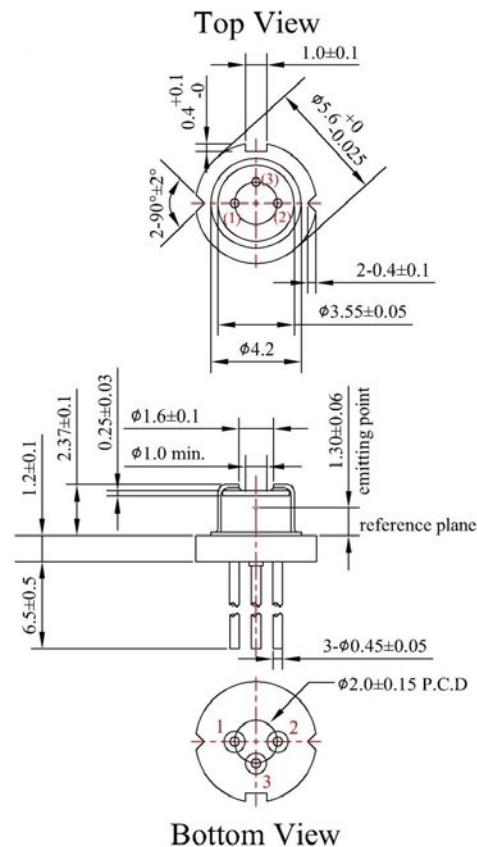
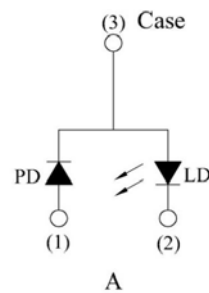
■ Features

1. Peak wavelength at 25°C : 980 nm (typical)
2. Standard light output : 200mW (CW)
3. TO-18 (ϕ 5.6mm) Packaged, cap window with flat Pb-free lens, monitor PD inside.

■ Applications

1. Laser indicator
2. Laser detector
3. Night vision

■ External dimensions(Unit : mm)



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■ Absolute Maximum Ratings(Tc=25°C)

Parameter	Symbol	Rating	Unit
Optical Output	Po	200	mW
Reverse Voltage	Vr	2	V
Operating Temperature (Case)	Top	-10~+40	°C
Storage Temperature	Tstg	-40~+85	°C

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

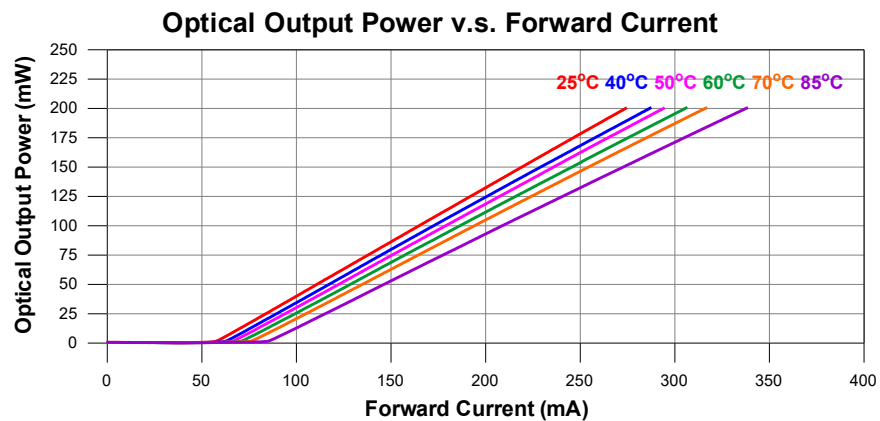
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current	Ith	Po=200mW	-	60	80	mA
Operating Current	Iop	Po=200mW	-	280	365	mA
Operating Voltage	Vop	Po=200mW	1.0	1.48	2.0	Volts
Slope Efficiency	η	Po=50-150mW	0.7	0.9	-	mW/mA
Monitor current	Im	Po=200mW	-	0.4	1.0	mA
Beam Divergence (FWHM)	Parallel	$\theta_{//}$	-	10	-	deg.
	Perpendicular	θ_{\perp}	-	36	-	deg.
Lasing Wavelength	λ	Po=200mW	970	980	990	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, the long-term lifetime test has not been qualified yet.

■ Typical characteristic curves

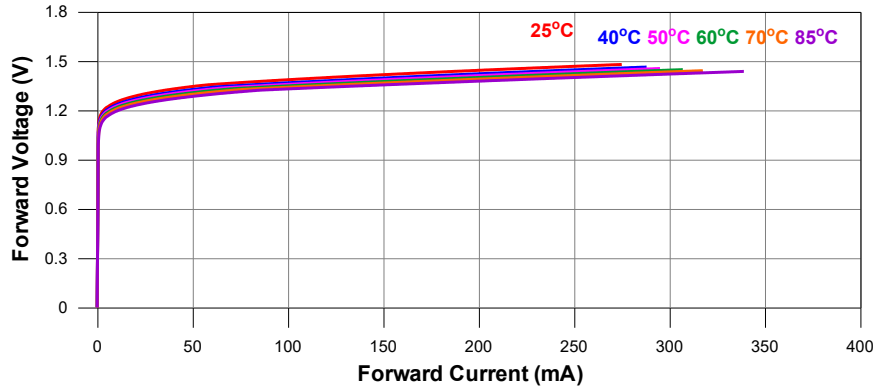


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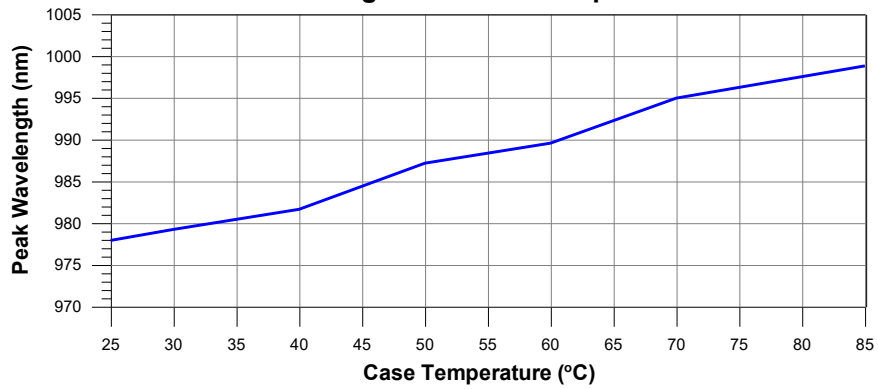
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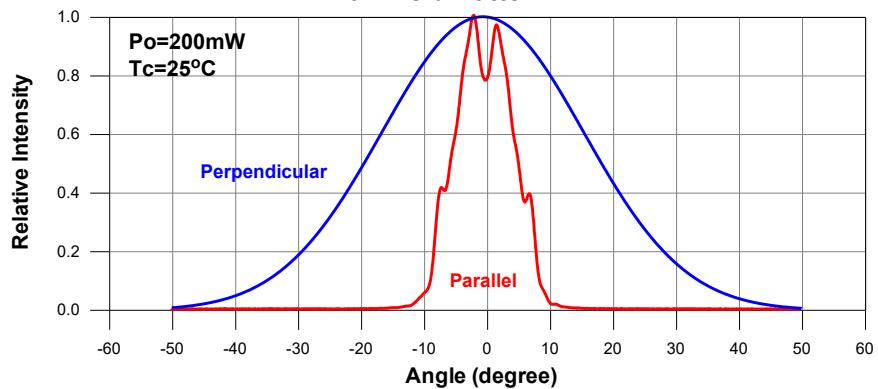
Forward Voltage v.s. Forward Current



Peak Wavelength v.s. Case Temperature



Far-Field Pattern

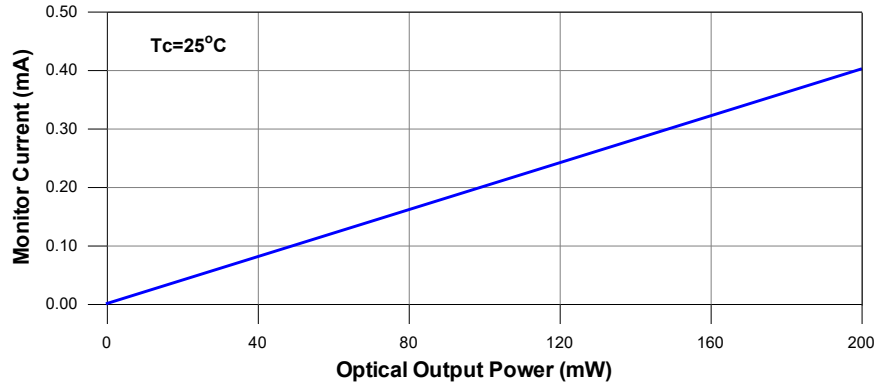


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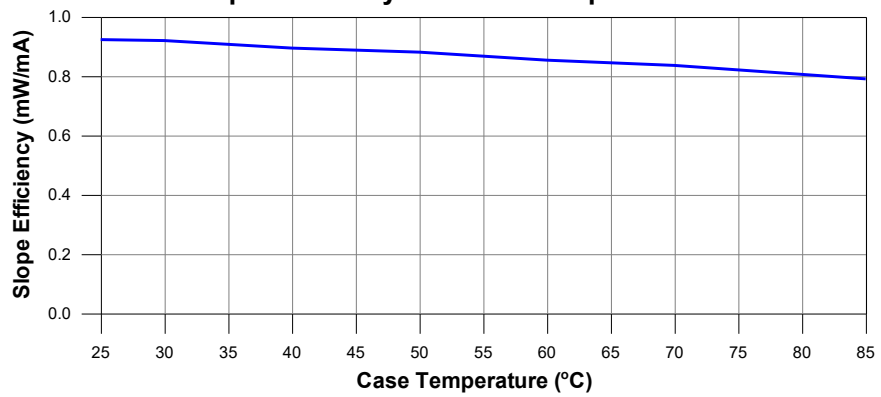
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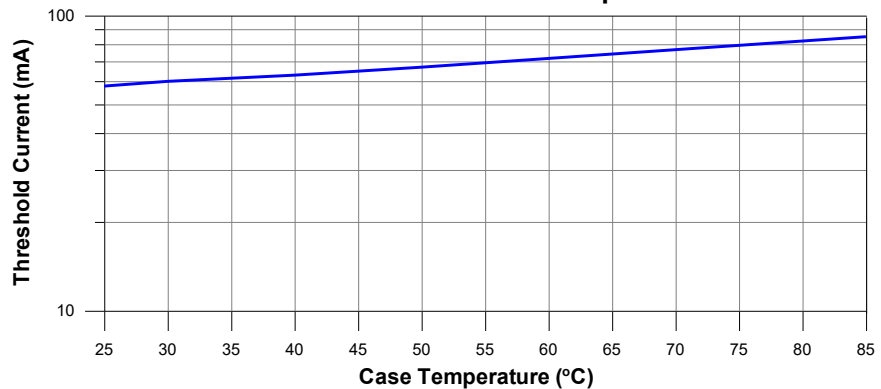
Monitor Current v.s. Optical Output Power



Slope Efficiency v.s. Case Temperature



Threshold Current v.s. Case Temperature



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