

LCU982562A

LCU98xx SERIES LASER DIODE

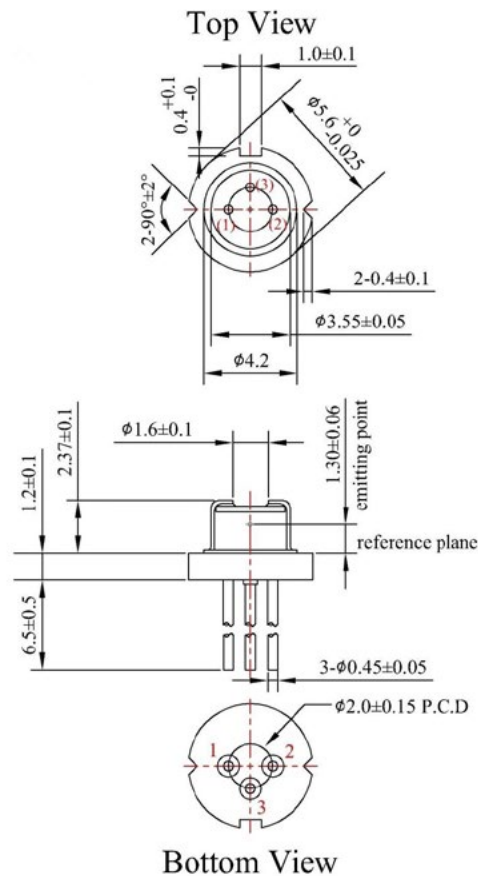
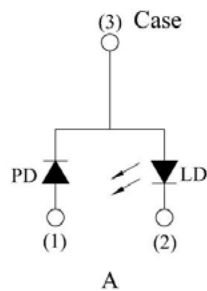
■ Features

1. Multi-mode Laser Diode
2. Standard optical power output : 25mW (CW)
3. TO-56 (ϕ 5.6mm) package, with Pb-free window cap.
4. Built-in photo diode for monitoring laser diode.

■ Applications

1. Medical laser treatment
2. Laser indicator
3. Laser detector
4. Night vision

■ External dimensions(Unit : mm)



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LCU982562A**LCU98xx SERIES LASER DIODE****■ Absolute Maximum Ratings(Tc=25°C)**

Parameter	Symbol	Rating	Unit
Optical Output	Po	25	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=1-5mW	-	8.5	15	mA	
Operating Current	Iop	Po=25mW	-	37	55	mA	
Operating Voltage	Vop	Po=25mW	-	1.7	2.1	V	
Slope Efficiency	η	Po=6.25-18.75mW	0.65	0.88	-	mW/mA	
Monitor Current	Im	Po=25mW	-	0.08	0.2	mA	
Beam Divergence (FWHM)	Parallel	$\theta_{//}$	Po=25mW	6	13	18	deg.
	Perpendicular	θ_{\perp}	Po=25mW	28	35	40	deg.
Lasing Wavelength	λ	Po=25mW	965	975	990	nm	

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

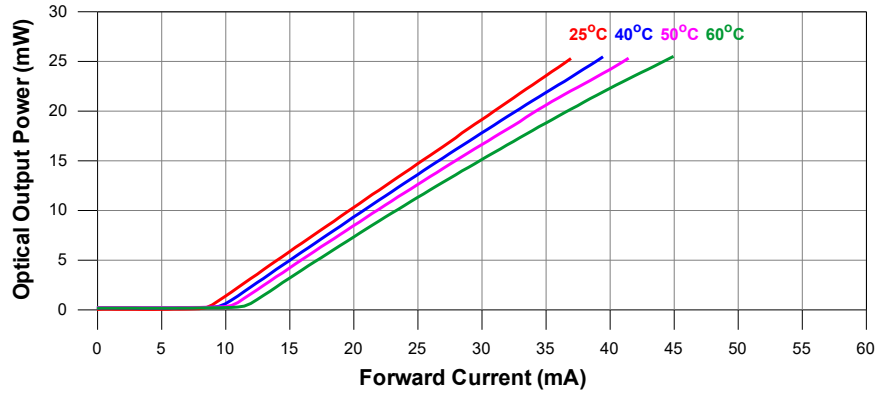
■ Typical characteristic curves

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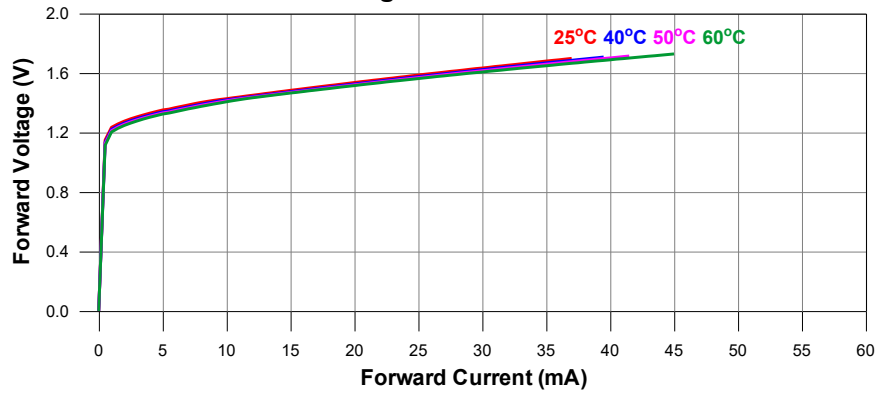
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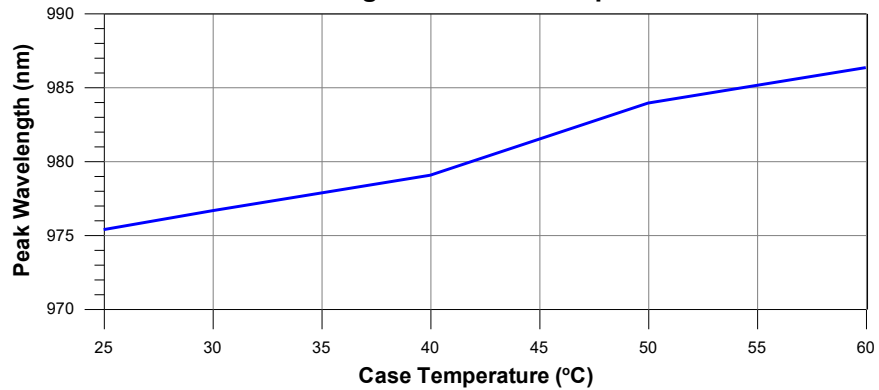
Optical Output Power v.s. Forward Current



Forward Voltage v.s. Forward Current



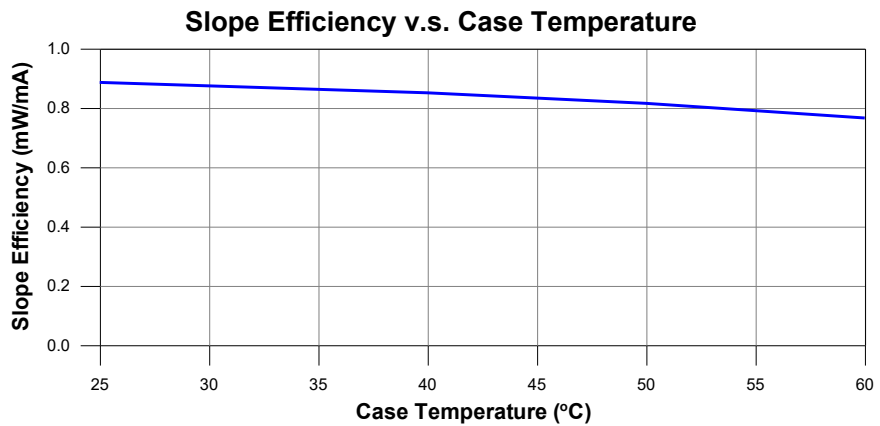
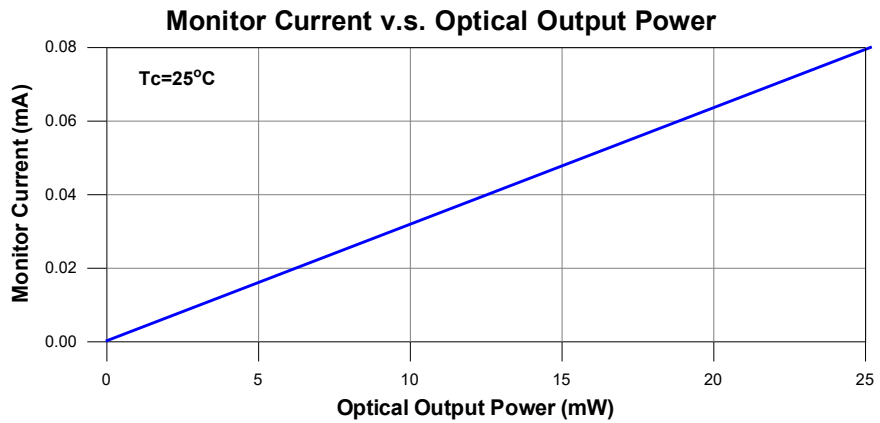
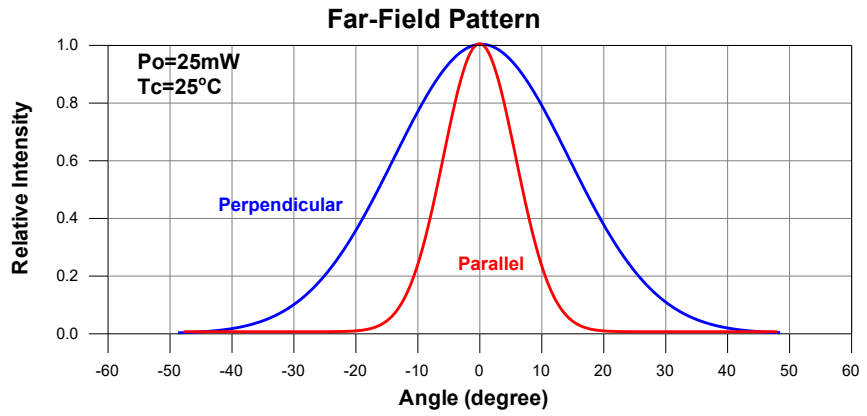
Peak Wavelength v.s. Case Temperature



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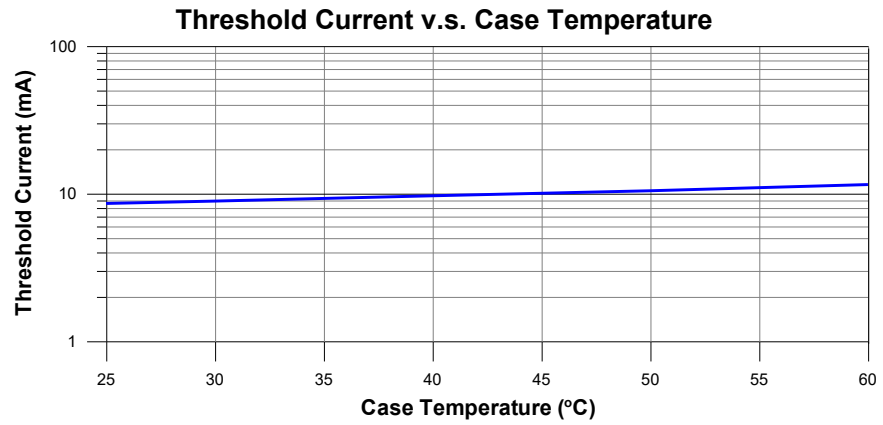
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SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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