

## LCU982561A

LCU98xx SERIES LASER DIODE

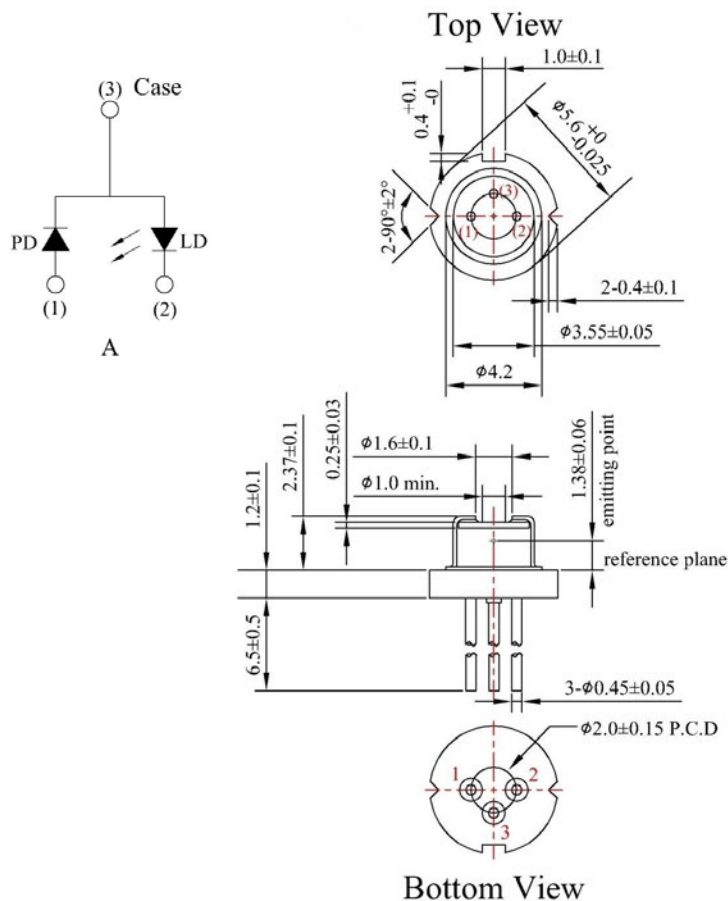
### ■ Features

1. Peak wavelength at 25°C : 975 nm (typical)
2. Standard light output : 25mW (CW)
3. TO-18 ( $\phi$  5.6mm) Packaged, cap window with flat Pb-free lens, monitor PD inside.

### ■ Applications

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

### ■ External dimensions(Unit : mm)



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#### ■ Absolute Maximum Ratings(Tc=25°C)

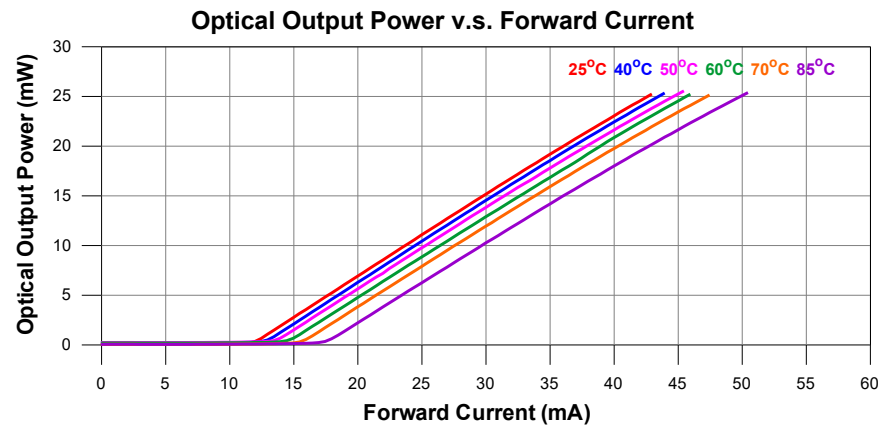
Parameter	Symbol	Rating	Unit
Optical Output	Po	25	mW
Reverse Voltage	Vr	2	V
Operating Temperature ( Case )	Top	-10~+60	°C
Storage Temperature	Tstg	-40~+85	°C

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

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current	Ith	Po=25mW	-	12	20	mA
Operating Current	Iop	Po=25mW	-	44	55	mA
Operating Voltage	Vop	Po=10mW	-	1.5	2.0	Volts
Slope Efficiency	$\eta$	Po=6.25-18.75mW	0.5	0.8	-	mW/mA
Monitor Current	Im	Po=25mW	-	0.1	0.2	mA
Beam Divergence (FWHM)	Parallel	$\theta_{\parallel}$	8	13	18	deg.
	Perpendicular	$\theta_{\perp}$	30	35	40	deg.
Lasing Wavelength	$\lambda$	Po=25mW	965	975	990	nm

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

#### ■ Typical characteristic curves

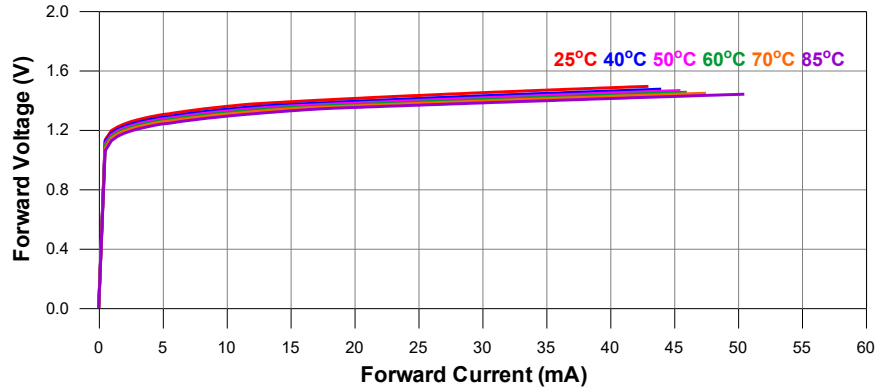


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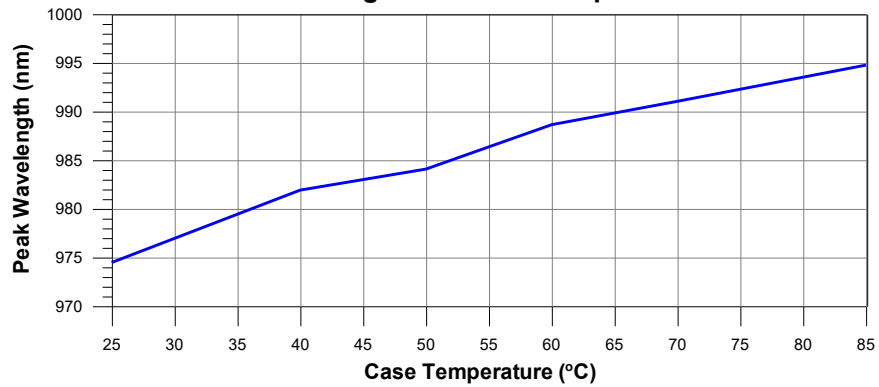
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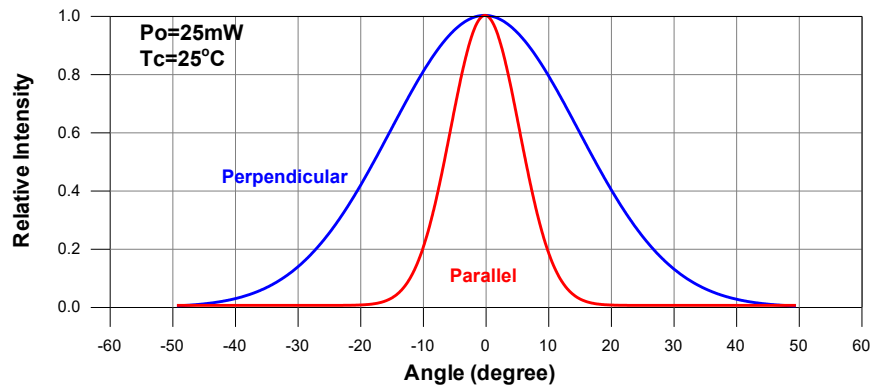
**Forward Voltage v.s. Forward Current**



**Peak Wavelength v.s. Case Temperature**



**Far-Field Pattern**

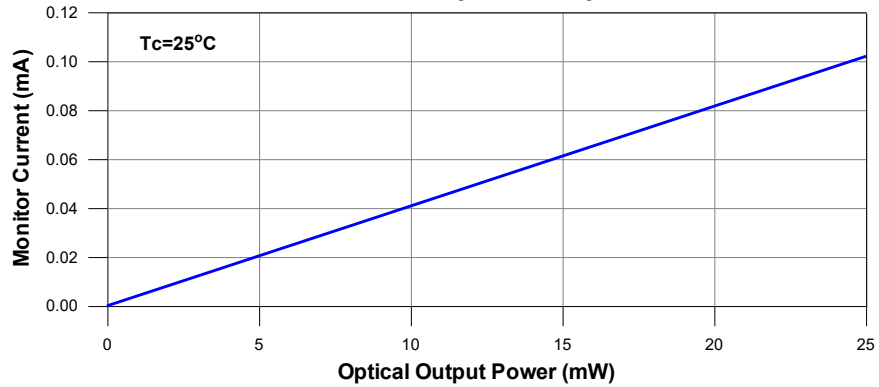


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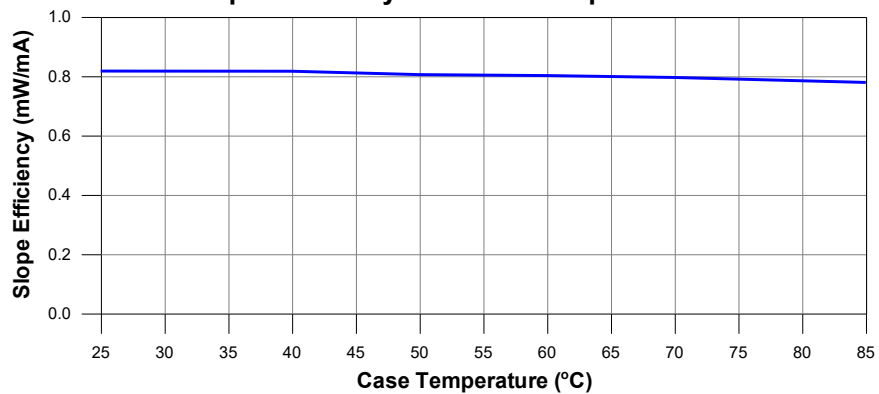
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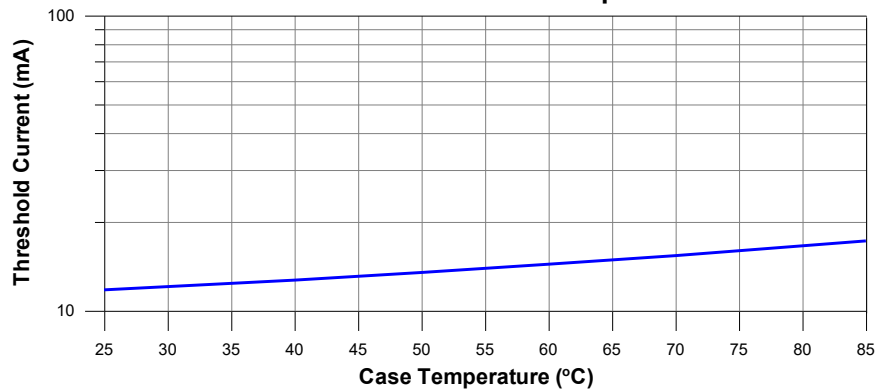
Monitor Current v.s. Optical Output Power



Slope Efficiency v.s. Case Temperature



Threshold Current v.s. Case Temperature



Ver.02

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.