

LCU985041A/C

LCU98xx SERIES LASER DIODE

■ Absolute Maximum Ratings(Tc=25°C)

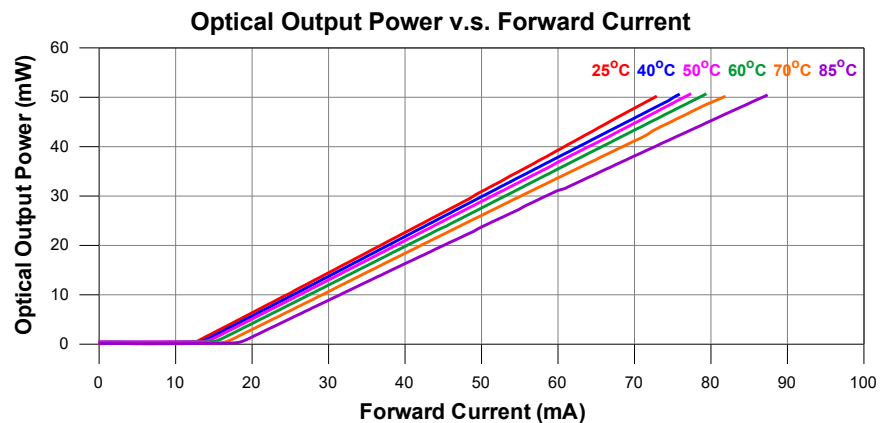
Parameter	Symbol	Rating	Unit
Optical Output	Po	50	mW
Reverse Voltage	Vr	2	V
Operating Temperature (Case)	Top	-10~+40	°C
Storage Temperature	Tstg	-40~+85	°C

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

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current	Ith	Po=50mW	-	12	20	mA
Operating Current	Iop	Po=50mW	-	73	85	mA
Operating Voltage	Vop	Po=50mW	-	1.55	2.0	Volts
Slope Efficiency	η	Po=12.5-37.5mW	0.5	0.8	-	mW/mA
Monitor Current	Im	Po=50mW	0.1	0.25	0.4	mA
Beam Divergence (FWHM)	Parallel	$\theta_{//}$	8	14	18	deg.
	Perpendicular	θ_{\perp}	30	35	40	deg.
Lasing Wavelength	λ	Po=50mW	965	980	990	nm

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

■ Typical characteristic curves

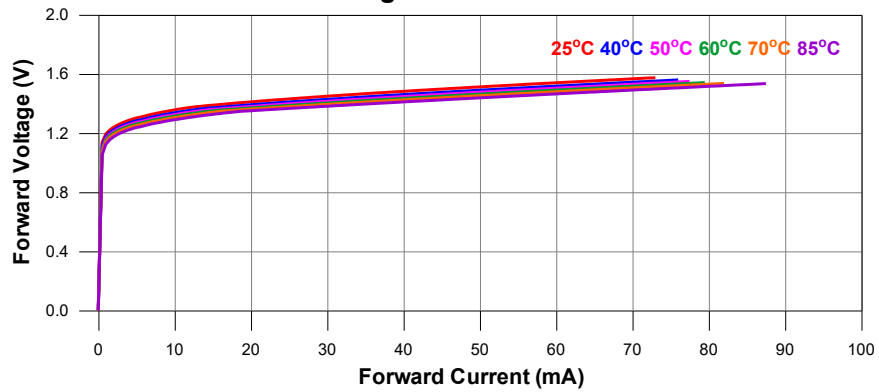


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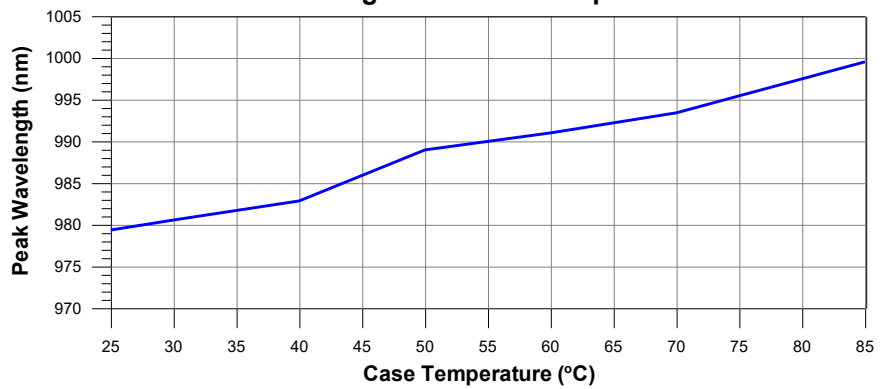
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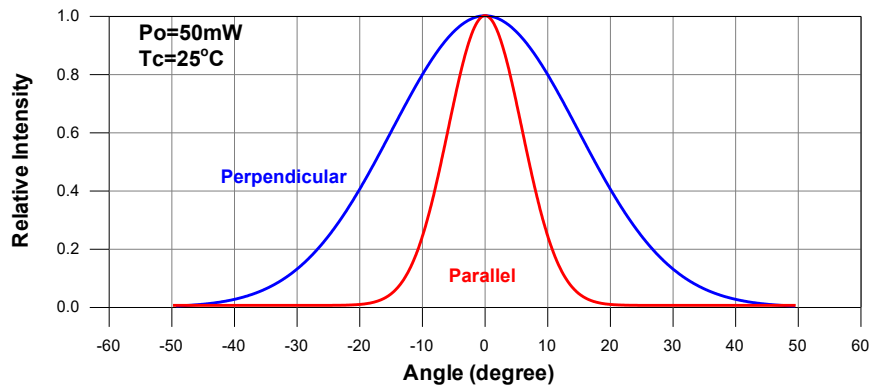
Forward Voltage v.s. Forward Current



Peak Wavelength v.s. Case Temperature



Far-Field Pattern

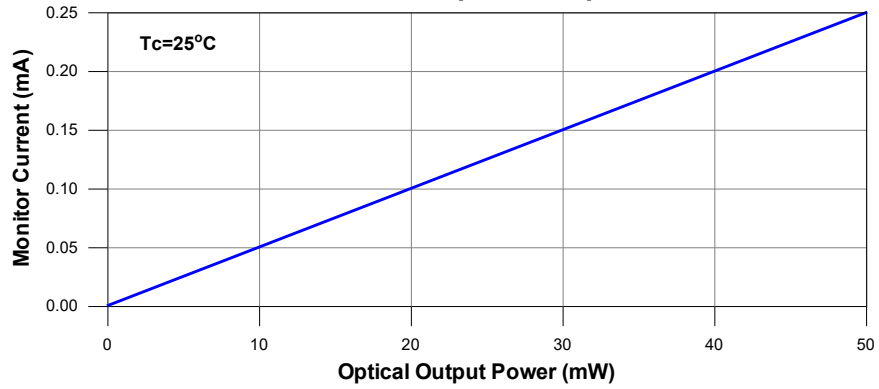


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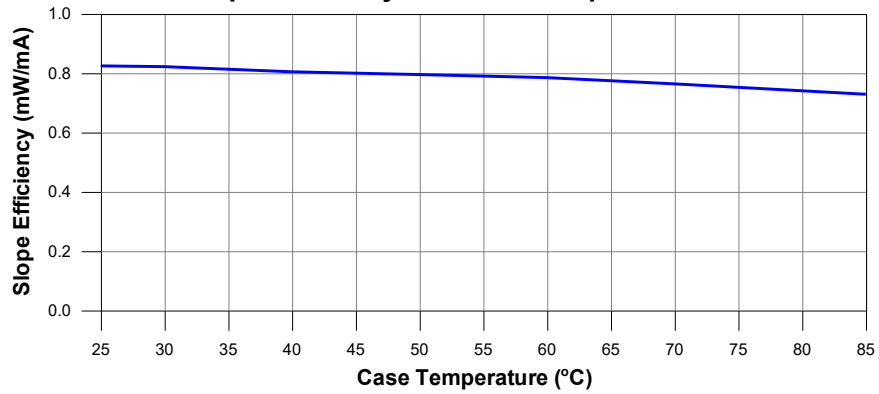
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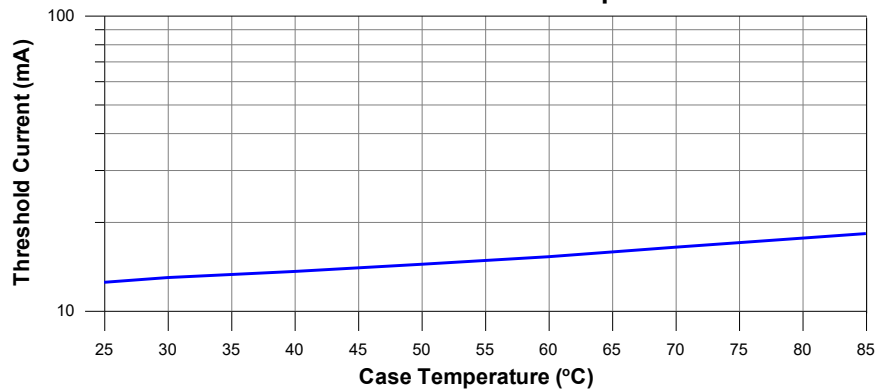
Monitor Current v.s. Optical Output Power



Slope Efficiency v.s. Case Temperature



Threshold Current v.s. Case Temperature



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SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.