SKY BLUE LASER DIODE

SDL-488-60-501G

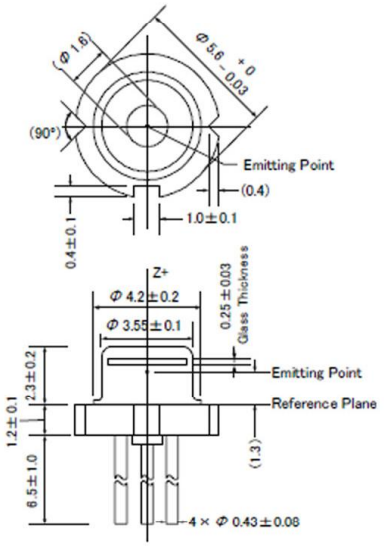
Features

Wavelength: 488nm (Typ.)
Optical power: Po = 60mW (Typ.)
Package: TO-18, Φ5.6mm (RoHS compliant)

Applications

Industrial Applications

Package



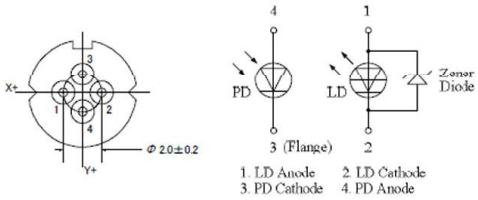
Absolute Maximum Ratings

(Tc=25°C)

Parameter	Symbol	Rating	Unit
Optical Output	Po	**80**	mW
Reverse Voltage	Vr	**5**	V
Operating Temperature	Top	0~+60	℃
Storage Temperature	Tstg	-40~+85	℃

* Case Temperature

Pin Connection



Electrical and Optical Characteristics

(Tc=25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current		Ith	-	-	**30**	**50**	mA
Operating Current		Iop	Po=60W	-	**100**	**130**	mA
Operating Voltage		Vop	-	-	**5.6**	**6.2**	Volt
Slope Efficiency		η	Po=60W	**0.6**	**0.9**	-	mW/mA
LD Reverse Voltage			-	-	-	-	V
Beam Divergence	Parallel	θ //	Po=60W	**7**	**10**	**13**	deg.
(FWHM)	Perpendicular	θ ⊥	Po=60W	**20**	**23.5**	**27**	deg.
Lasing Wavelength		λ		**483**	**488**	**493**	nm
Spectral Width				-	-	-	nm
Monitor Current		Im		**0.2**	**1.0**	**1.8**	mA

* Angle at 50% peak intensity (full-width at malf-maximum)

Note: The above specification is subject to change without notice

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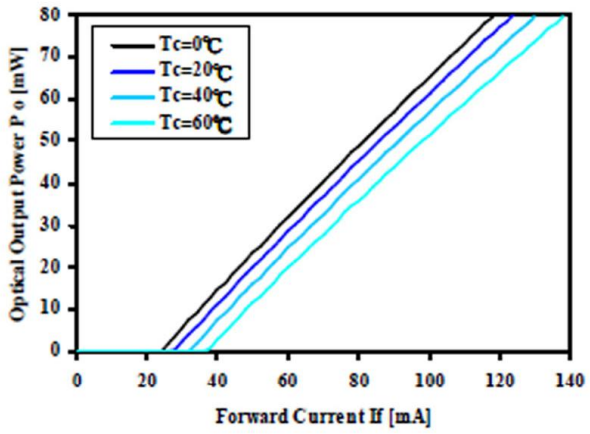
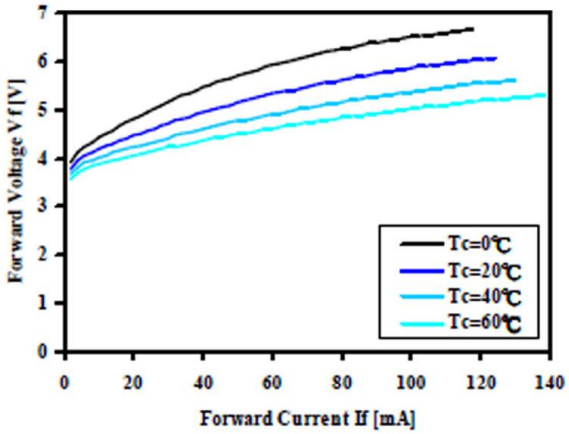
SEMICOM VISUAL

Typical Characteristics

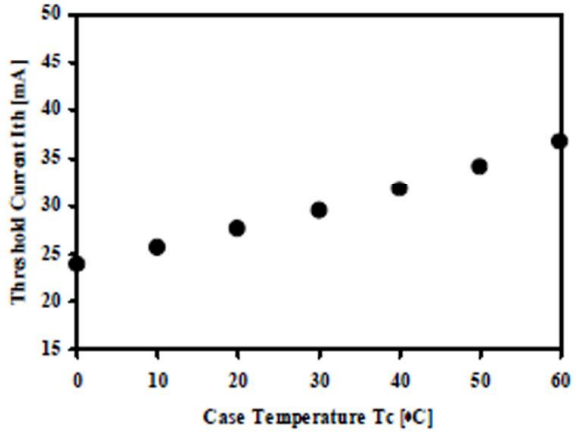
◆ Optical Output Power vs. Forward Current



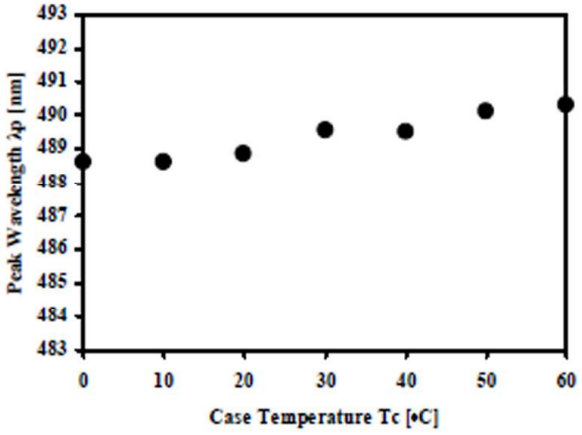
◆ Forward Voltage vs. Forward Current



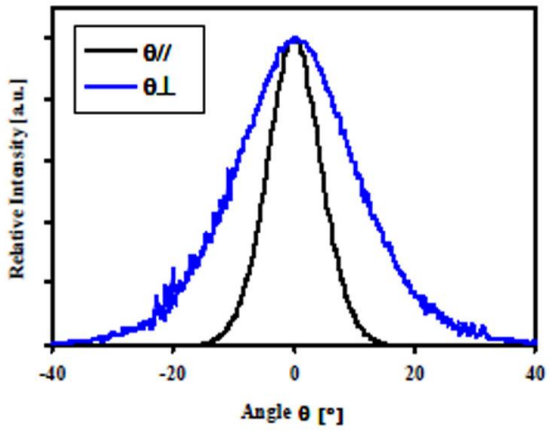
◆ Threshold Current vs. Case Temperature



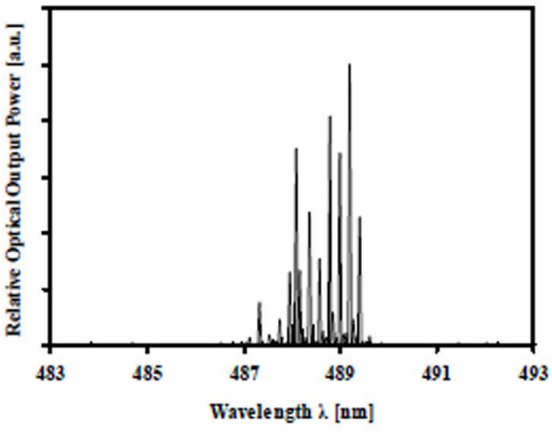
◆ Peak Wavelength vs. Case Temperature



◆ Far Field Pattern



◆ Spectrum



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