

## LCU66A551Ap/Bp/Dp

LCU66xx SERIES LASER DIODE

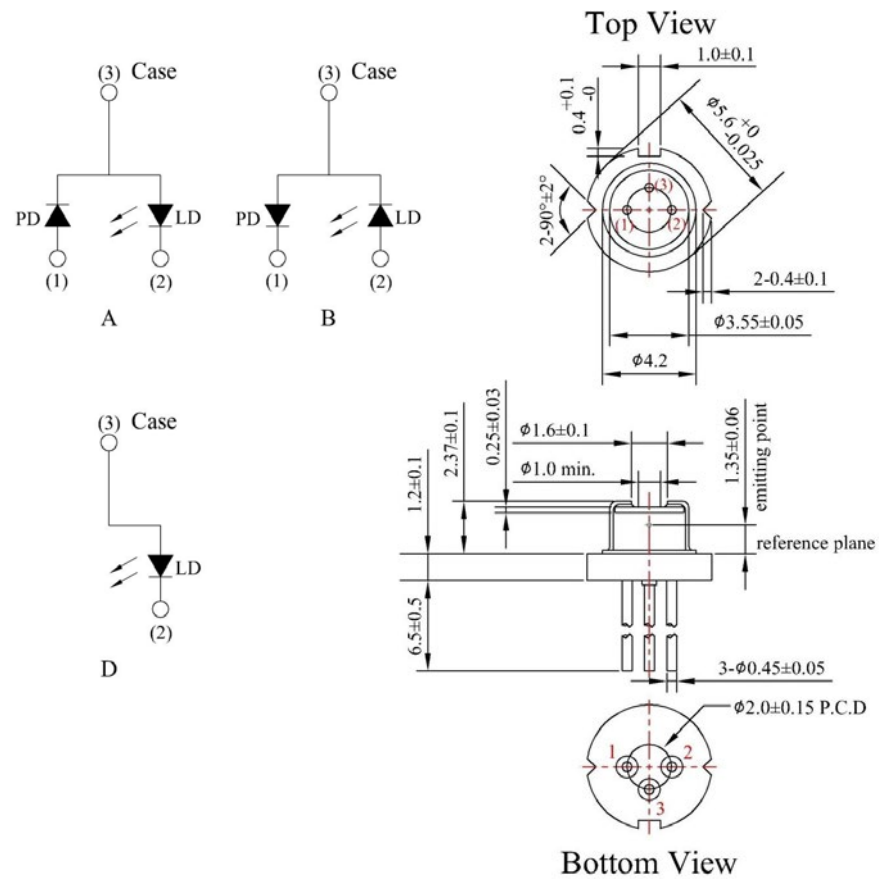
### ■ Features

1. High power operation
2. Standard optical power output : 150mW (CW)
3. TO-56 ( $\phi$  5.6mm) packaged, with Pb-free window cap.

### ■ Applications

1. Laser module
2. Industrial use
3. Medical application

### ■ External dimensions(Unit : mm)



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

Parameter	Symbol	Rating	Unit
Optical Output	Po	<b>150</b>	mW
Reverse Voltage	Vr	<b>2</b>	V
Operating Temperature ( Case )	Top	-10~+50	°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=150mW	-	<b>100</b>	<b>115</b>	mA	
Operating Current	Iop	Po=150mW	-	<b>250</b>	<b>300</b>	mA	
Operating Voltage	Vop	Po=150mW	-	<b>2.3</b>	<b>2.5</b>	Volts	
Slope Efficiency	$\eta$	Po=75-225mW	<b>0.7</b>	<b>1.0</b>	-	mW/mA	
Monitor Current	Im	Po=150mW	<b>0.1</b>	<b>0.4</b>	<b>1.0</b>	mA	
Beam Divergence (FWHM)	Parallel	$\theta_{//}$	Po=150mW	<b>5</b>	<b>11</b>	<b>17</b>	deg.
	Perpendicular	$\theta_{\perp}$	Po=150mW	<b>24</b>	<b>28</b>	<b>32</b>	deg.
Lasing Wavelength	$\lambda$	Po=150mW	<b>655</b>	<b>660</b>	<b>665</b>	nm	

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

**■ Quality Notice**

This device is still under product development.

**■ Typical characteristic curves**

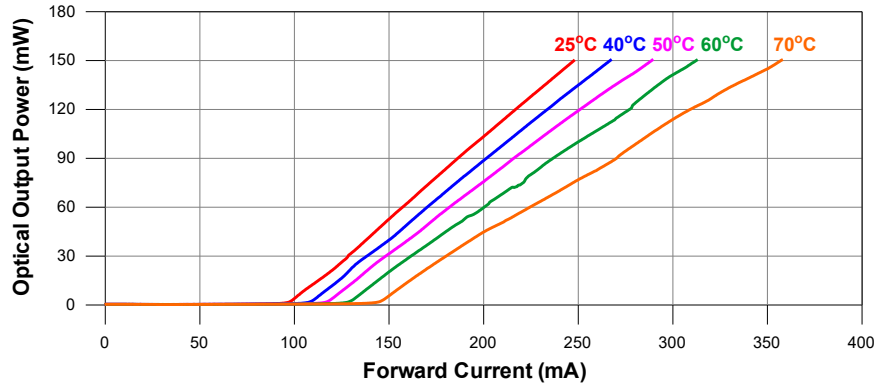

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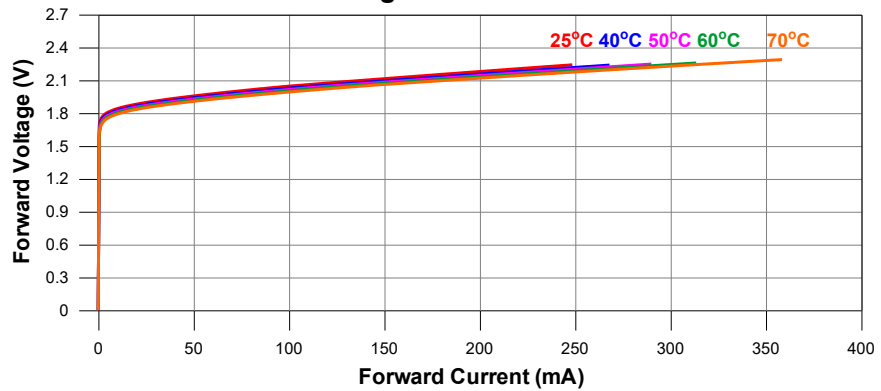
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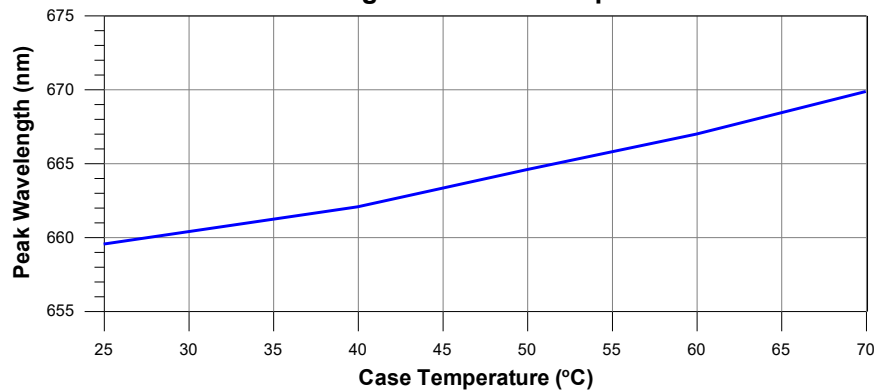
Optical Output Power v.s. Forward Current



Forward Voltage v.s. Forward Current



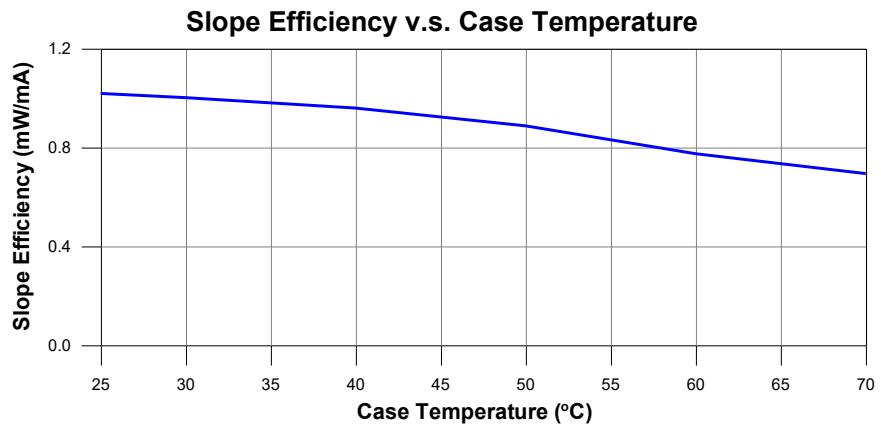
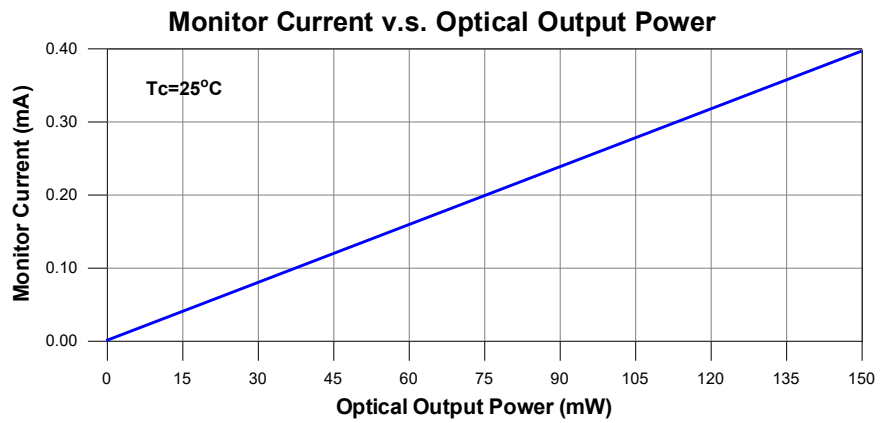
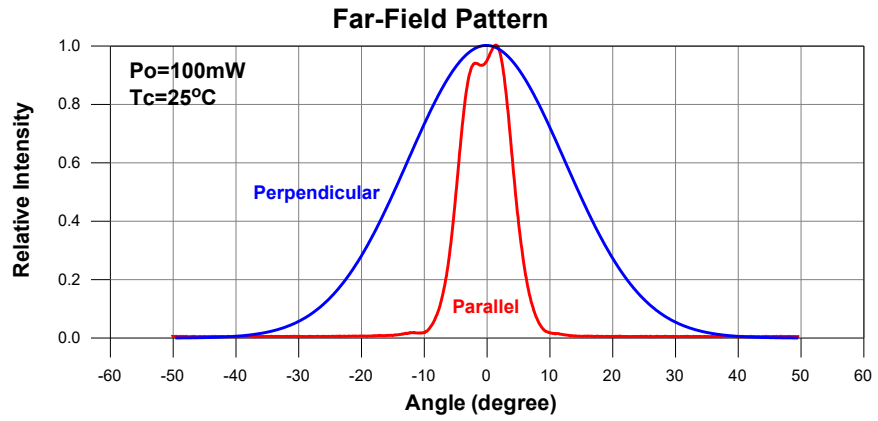
Peak Wavelength v.s. Case Temperature



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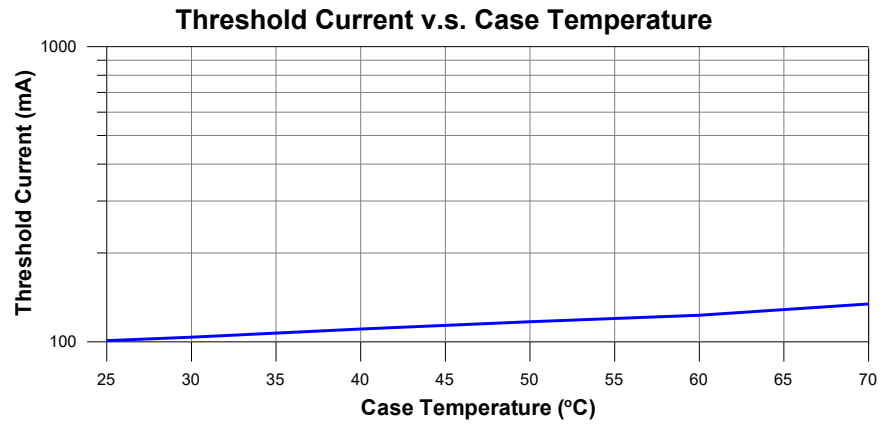
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