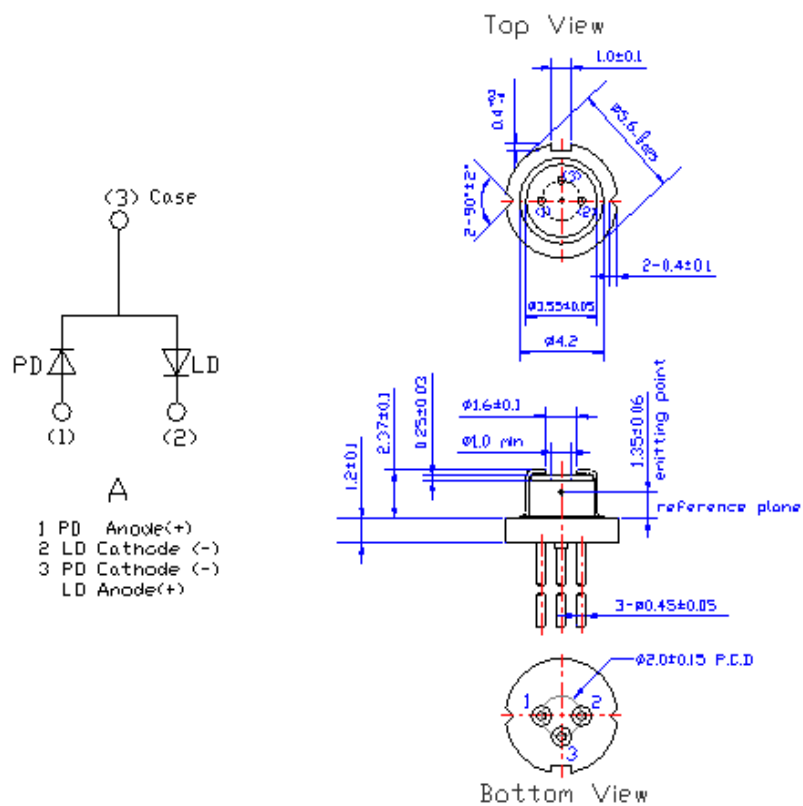


## 635nm Red Laser Diode LCU632051A-preliminary

### ■ Specifications

- (1) Device: Laser Diode  
 (2) Structure: TO-18( $\phi$  5.6mm), With Pb free glass cap, PD

### ■ External dimensions(Unit : mm)



### ■ Absolute Maximum Ratings( $T_c=25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Optical Output	$P_o$	<b>20</b>	mW
Reverse Voltage	Laser	<b>2</b>	V
	PIN PD	<b>30</b>	V
Operating Temperature	$T_{op}$	-10 ~ +50	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-40 ~ +85	$^\circ\text{C}$

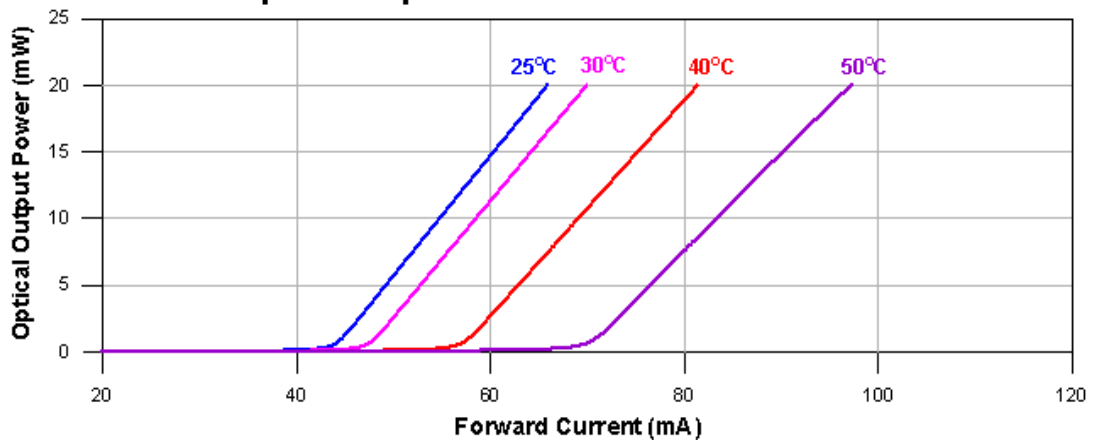
■ Electrical and Optical Characteristics(Tc=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit	
Threshold Current	I <sub>th</sub>	P <sub>o</sub> =20mW	-	<b>50</b>	<b>55</b>	mA	
Operating Current	I <sub>op</sub>	P <sub>o</sub> =20mW	-	<b>70</b>	<b>85</b>	mA	
Operating Voltage	V <sub>op</sub>	-	-	<b>2.3</b>	<b>2.4</b>	Volts	
Slope Efficiency	$\eta$	15mW-5mW	<b>0.5</b>	<b>0.8</b>	-	mW	
		I <sub>15mW</sub> -I <sub>5mW</sub>				mA	
Monitor Current	I <sub>m</sub>	P <sub>o</sub> =20mW	<b>0.1</b>	<b>0.2</b>	<b>1.0</b>	mA	
Beam Divergence (FWHM)	Parallel	$\theta //$	P <sub>o</sub> =20mW	<b>5</b>	<b>7.5</b>	<b>9.5</b>	deg.
	Perpendicular	$\theta \perp$	P <sub>o</sub> =20mW	-	<b>33</b>	<b>35</b>	deg.
Lasing Wavelength	$\lambda$	P <sub>o</sub> =20mW	<b>630</b>	<b>639</b>	<b>645</b>	nm	

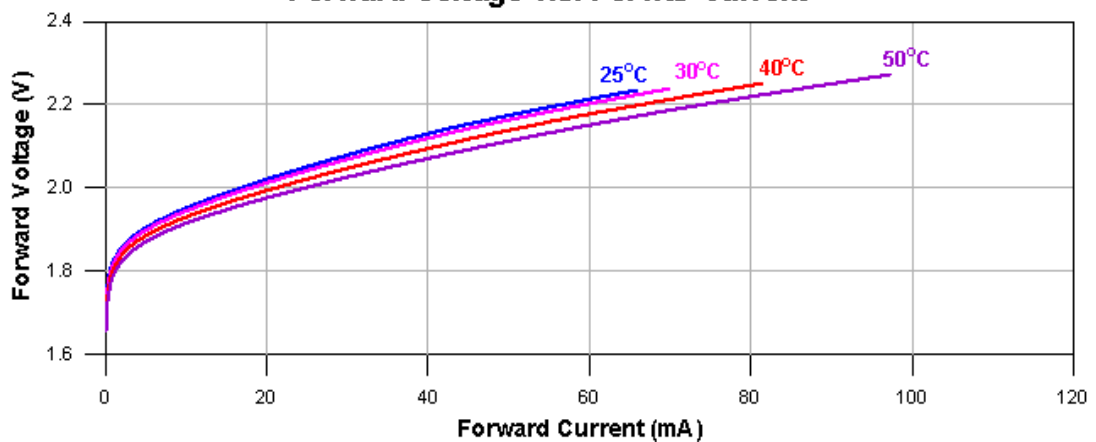
©  $\theta //$  and  $\theta \perp$  are defined as the angle within which the intensity is 50% of the peak value.

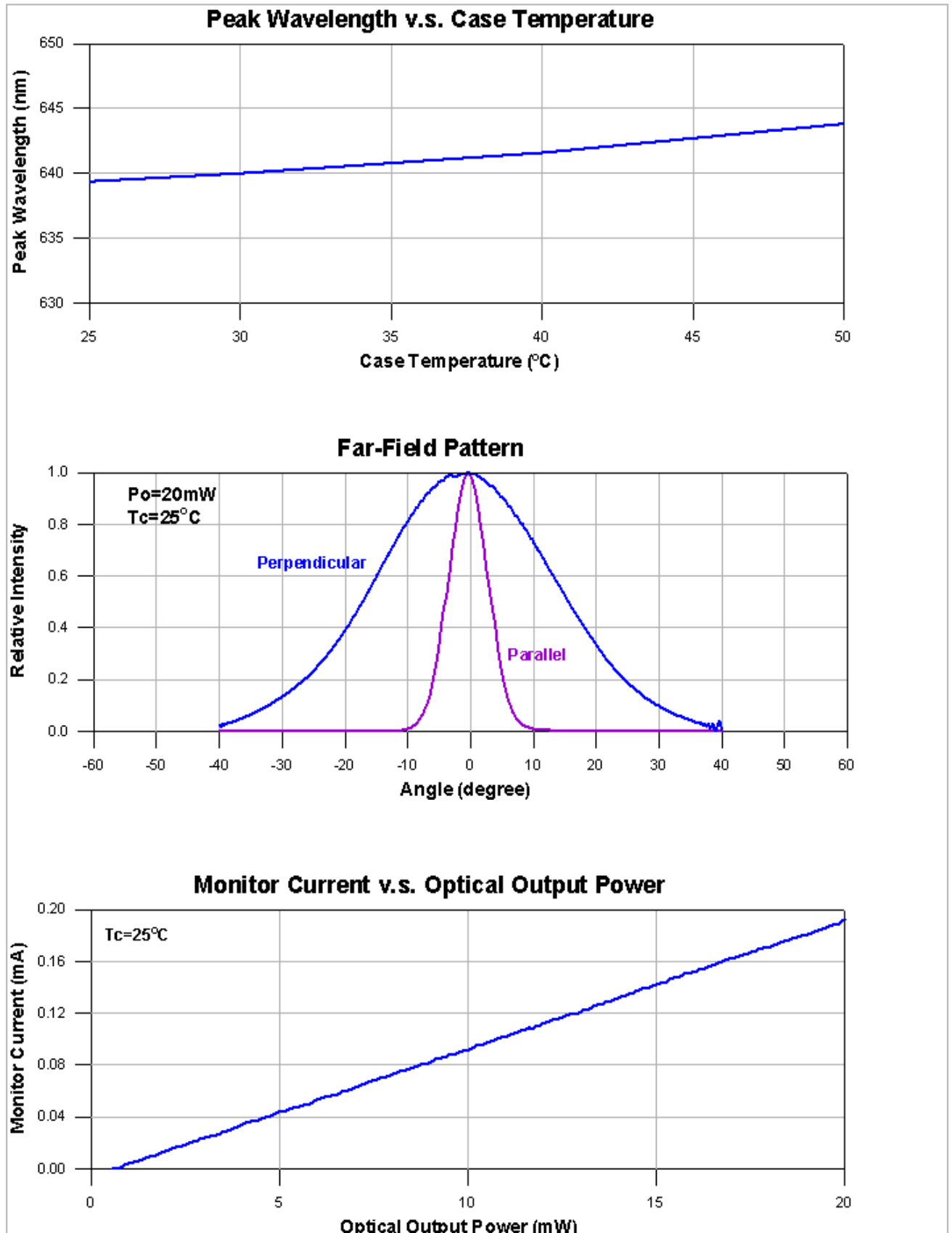
■ Typical characteristic curves

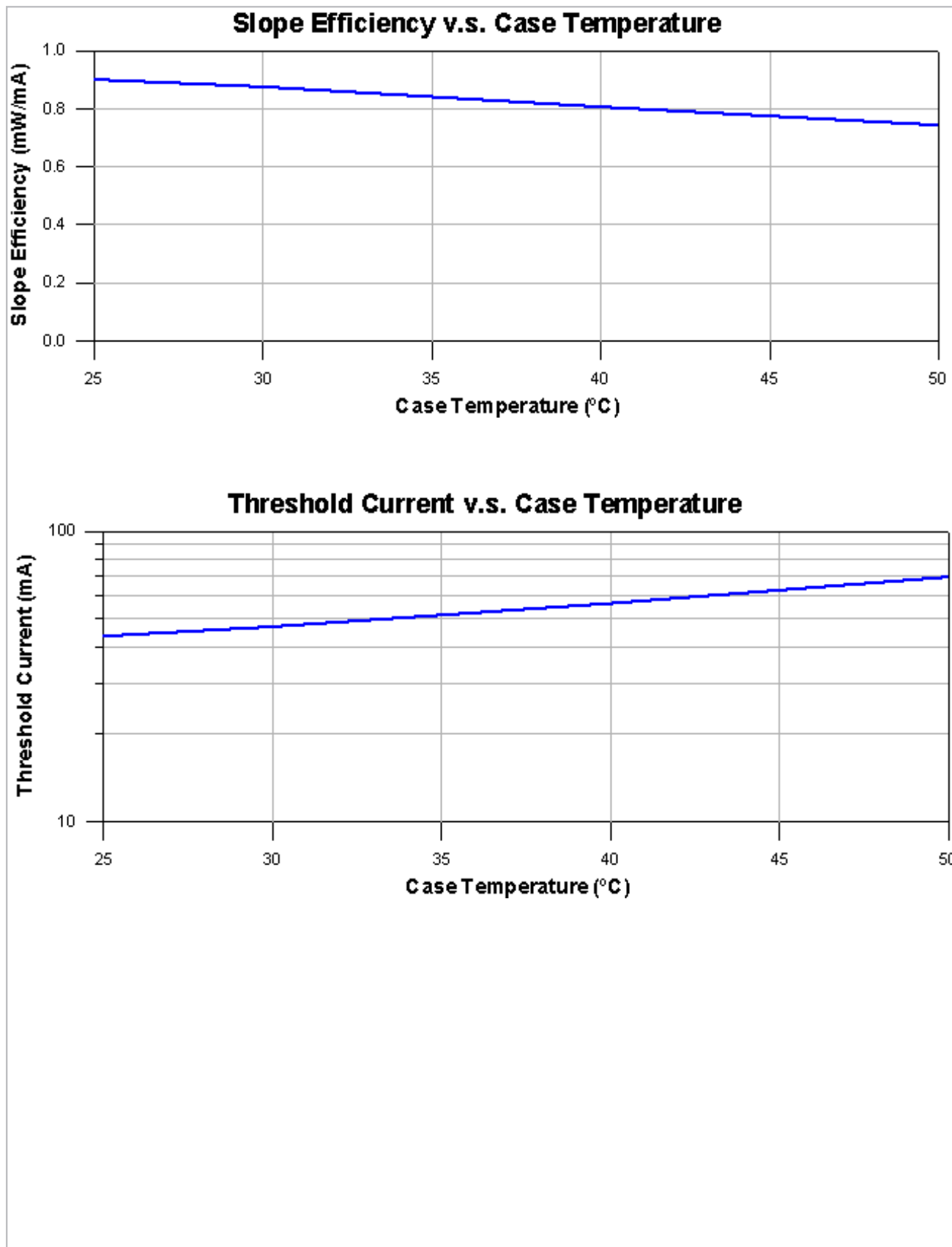
**Optical Output Power v.s. Forward Current**



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







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