

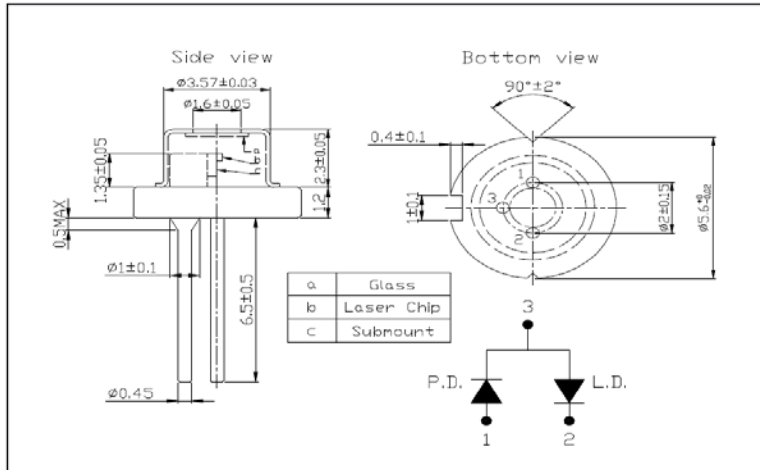


# LD635-35-1

## ●Specifications:

Wavelength: 635nm  
 Power: 35mW CW  
 Package: TO18

■External dimensions(Unit : mm)



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

Parameter		Symbols	Ratings	Units
Light Output	CW	$P_o$	35	mW
Reverse Voltage	Laser	$V_r$	2	V
	PD	$V_r(\text{PIN})$	30	V
Operation Temperature		$T_{op}$	-10~+40	°C
Storage Temperature		$T_{stg}$	-15~+85	°C

## ●Electrical and Optical Characteristics( $T_c=25^\circ\text{C}$ ):

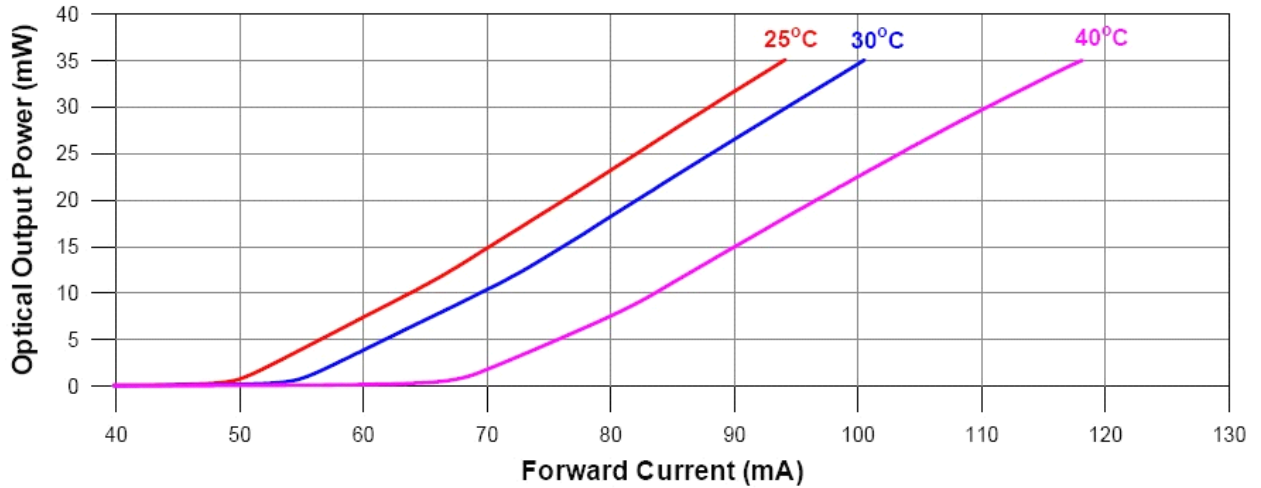
Parameter		Symbols	Condition	Min.	Typ.	Max.	Unit
Lasing Wavelength		$\lambda_p$	$P_o=35\text{mW}$	635	639	642	nm
Operating Current		$I_{op}$	$P_o=35\text{mW}$	-	95	105	mA
Operating voltage		$V_{op}$	$P_o=35\text{mW}$	-	2.3	2.45	V
Monitoring Output Current		$I_m$	$P_o=35\text{mW}$ $V_r=0\text{V}$	0.05	0.3	1	mA
Beam <sup>1)</sup> Divergence	Parallel	$\theta_{//}$	$P_o=35\text{mW}$	7	8.5	9.5	deg.
	Perpendicular	$\theta_{\perp}$	$P_o=35\text{mW}$	-	33	35	deg.
Slope Efficiency		$\eta$	-	0.4	0.7	1.2	mW/mA
Life Time (MTTF)				>5000			h

1) Full angle at half Maximum

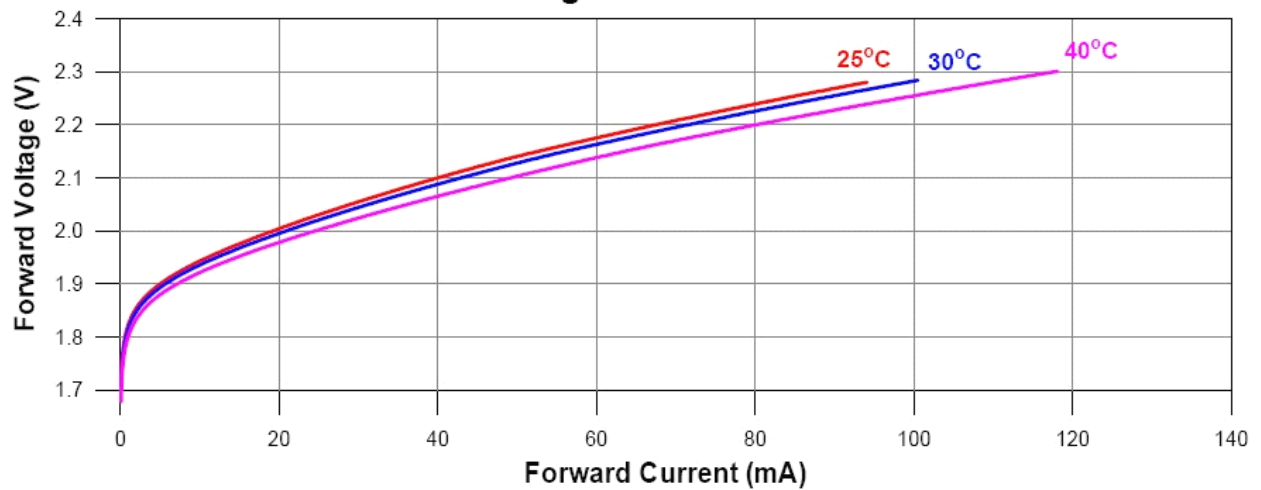


● **Electrical and Optical Characteristics Curves( $T_c=25^{\circ}\text{C}$ ):**

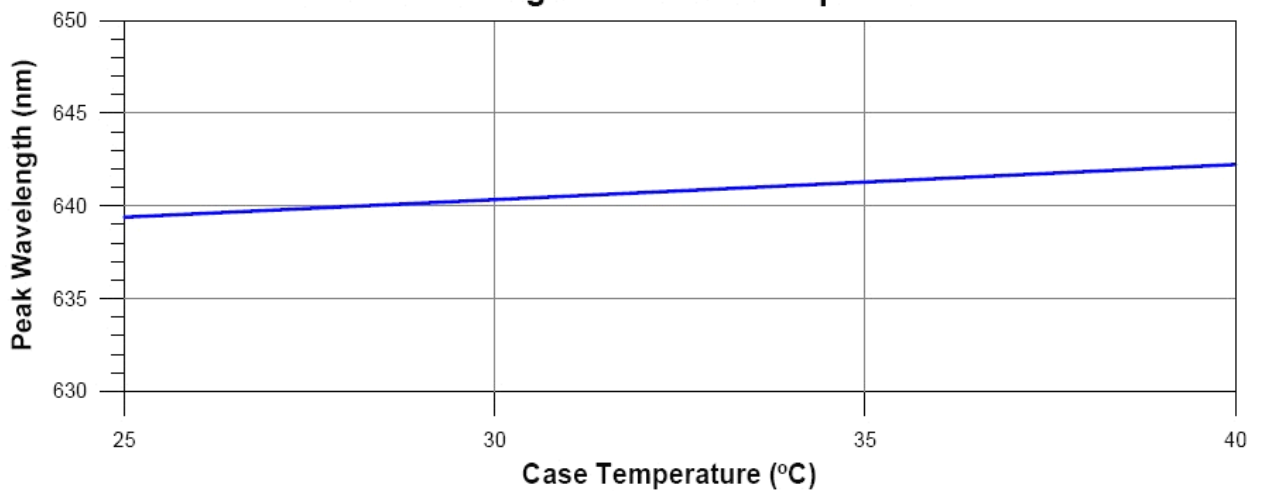
**Optical Output Power v.s. Forward Current**



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

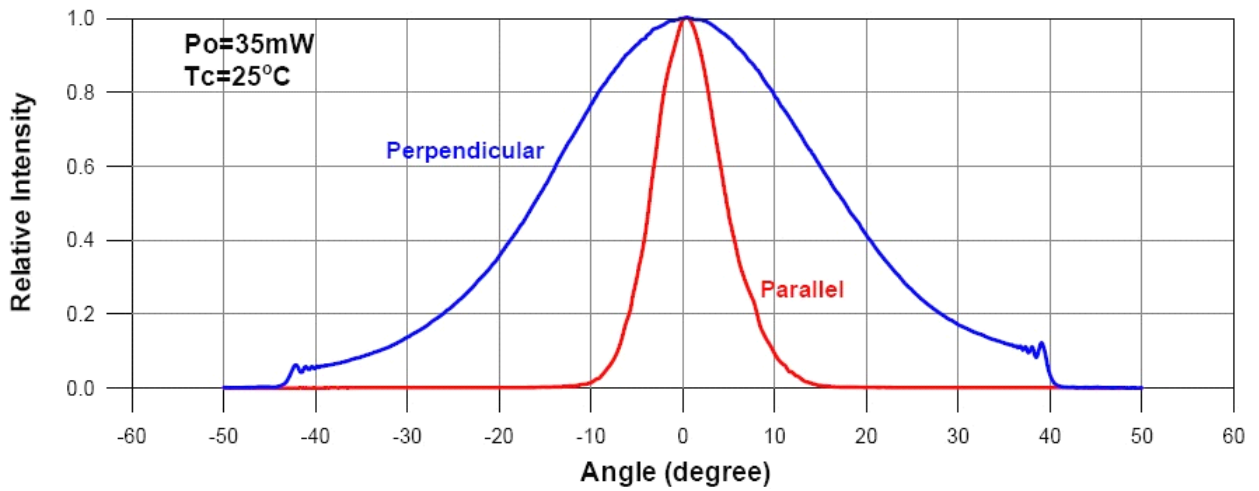


**Peak Wavelength v.s. Case Temperature**

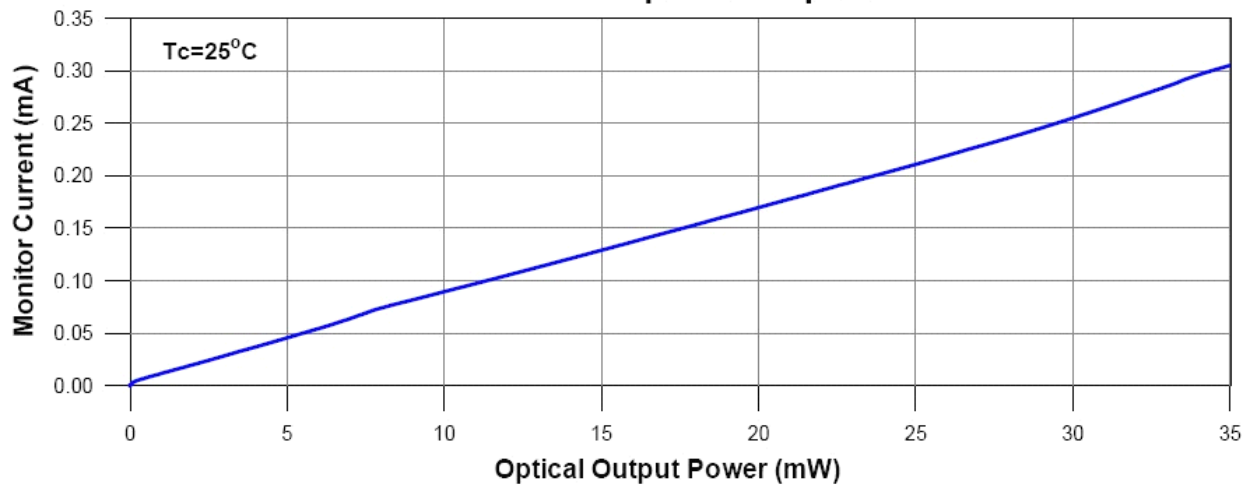




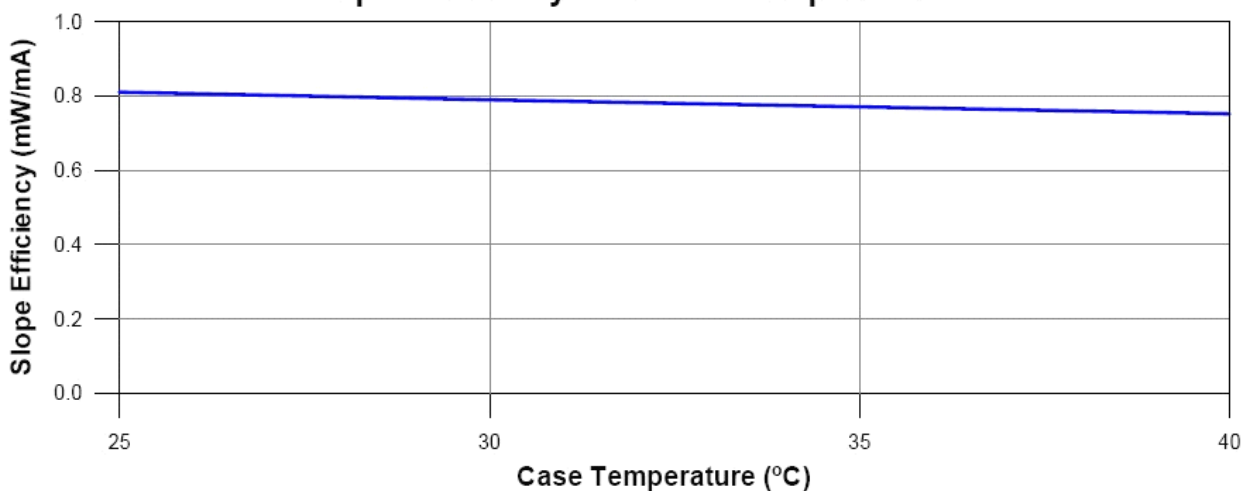
### Far-Field Pattern



### Monitor Current v.s. Optical Output Power



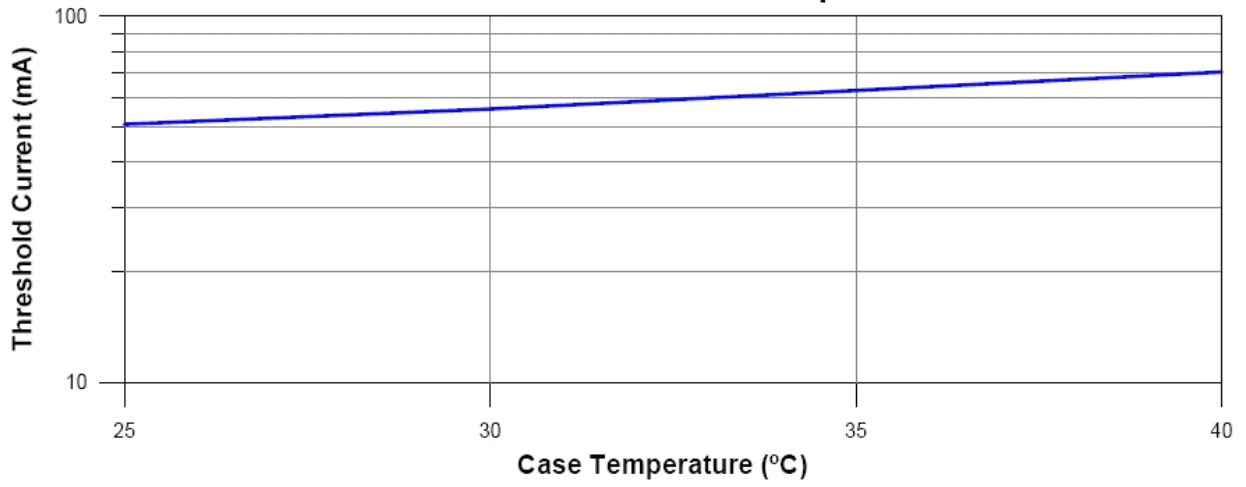
### Slope Efficiency v.s. Case Temperature





Tel: (+86) 577-8181-0885  
Fax: (+86)577-6286-6900  
[www.z-optics.com](http://www.z-optics.com)  
[Sales@z-optics.com](mailto:Sales@z-optics.com)

### Threshold Current v.s. Case Temperature



Z-Optics LIMITED  
Qiao Xia Nan Road 12#, Bei Bai Xiang,  
Yue Qing, Zhejiang Province  
325603, China