

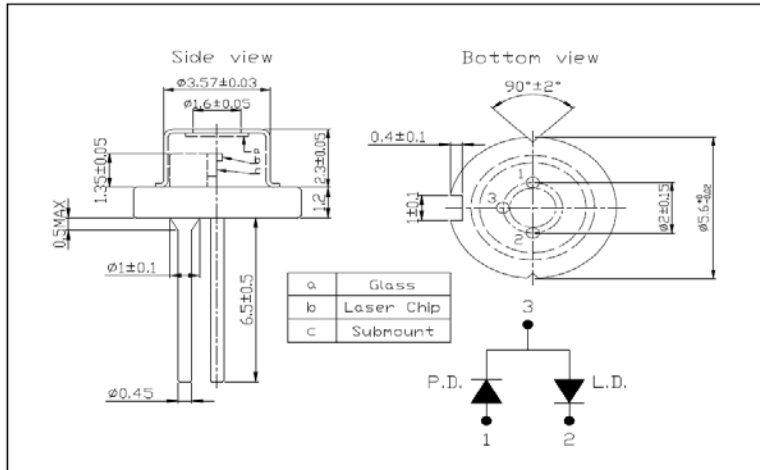


LD635-20-1

●Specifications:

- Wavelength: 635nm
- Power: 20mW 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	20	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($T_c=25^\circ\text{C}$):

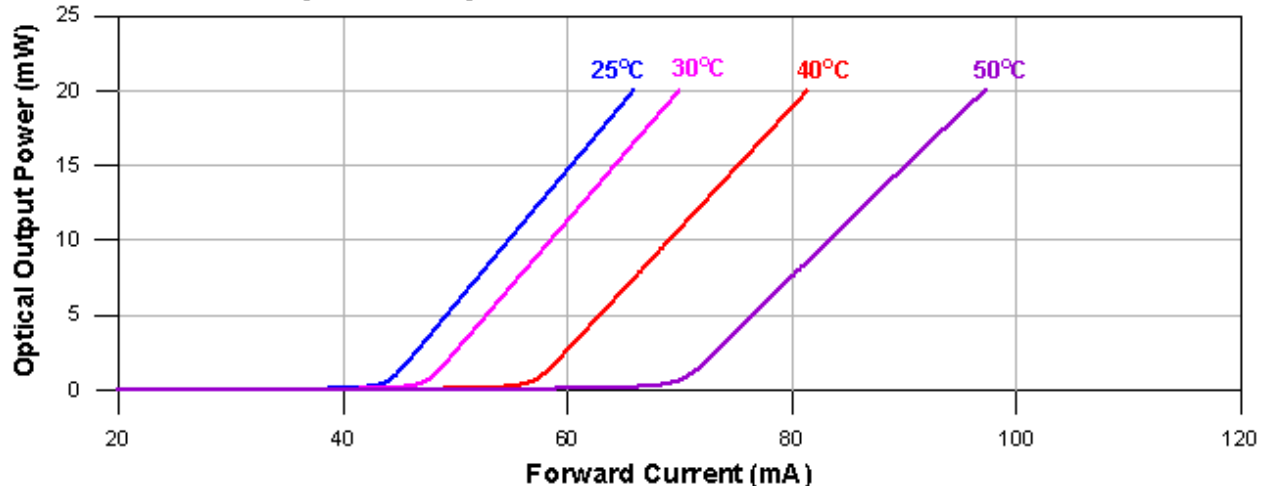
Parameter		Symbols	Condition	Min.	Typ.	Max.	Unit
Lasing Wavelength		λ_p	$P_o=20\text{mW}$	635	639	645	nm
Operating Current		I_{op}	$P_o=20\text{mW}$	-	70	85	mA
Operating voltage		V_{op}	$P_o=20\text{mW}$	-	2.3	2.4	V
Monitoring Output Current		I_m	$P_o=20\text{mW}$ $V_r=0\text{V}$	0.1	0.2	1.0	mA
Beam ¹⁾ Divergence	Parallel	$\theta_{//}$	$P_o=20\text{mW}$	5	7.5	9.5	deg.
	Perpendicular	θ_{\perp}	$P_o=20\text{mW}$	-	33	35	deg.
Slope Efficiency		η	-	0.5	0.8	-	mW/mA
Life Time (MTTF)				>5000			h

1) Full angle at half Maximum

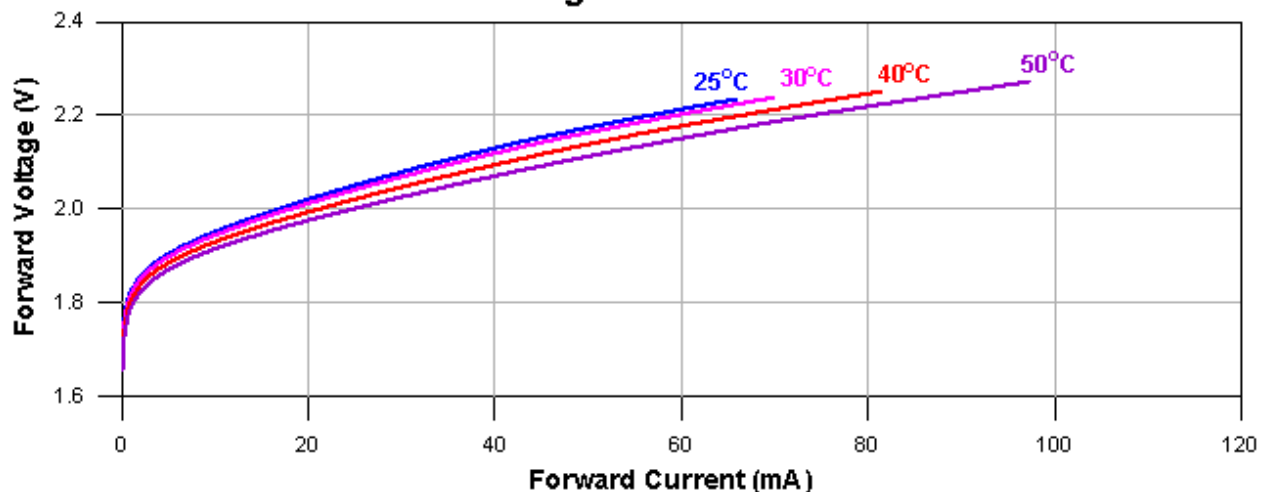


● **Electrical and Optical Characteristics Curves($T_c=25^{\circ}\text{C}$):**

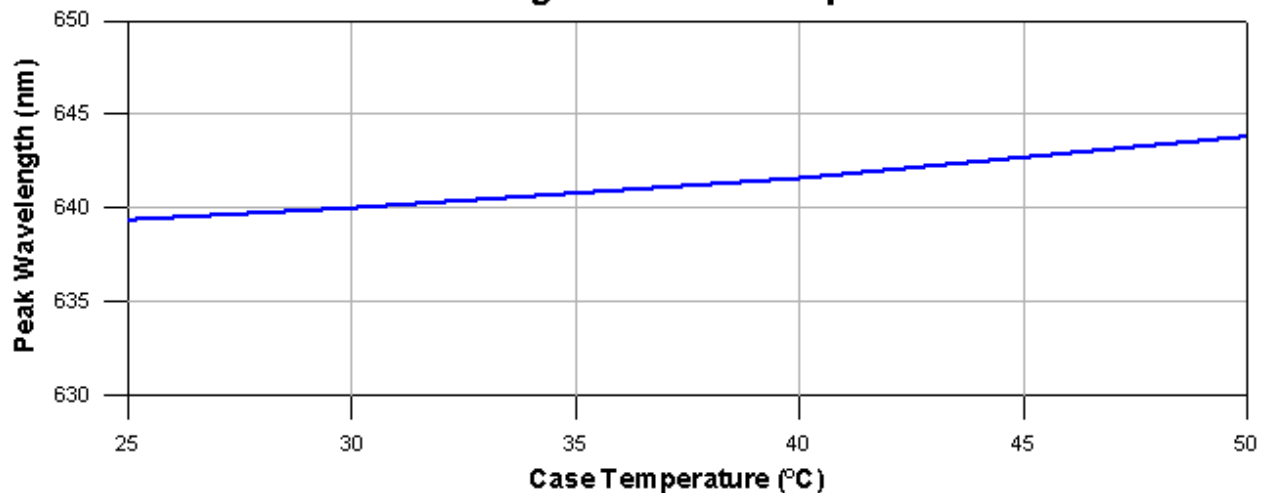
Optical Output Power v.s. Forward Current



Forward Voltage v.s. Forward Current

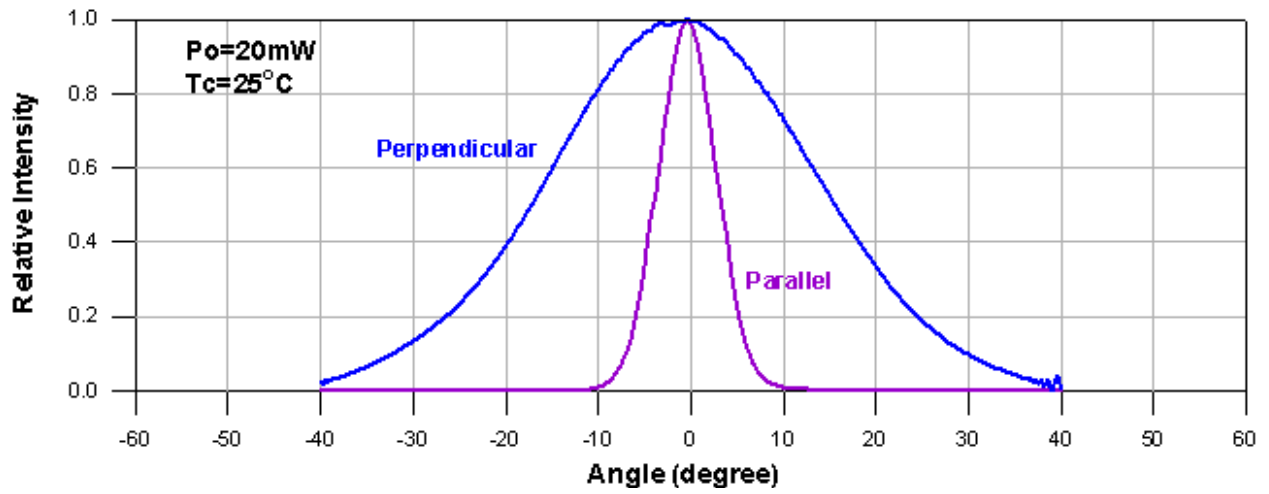


Peak Wavelength v.s. Case Temperature

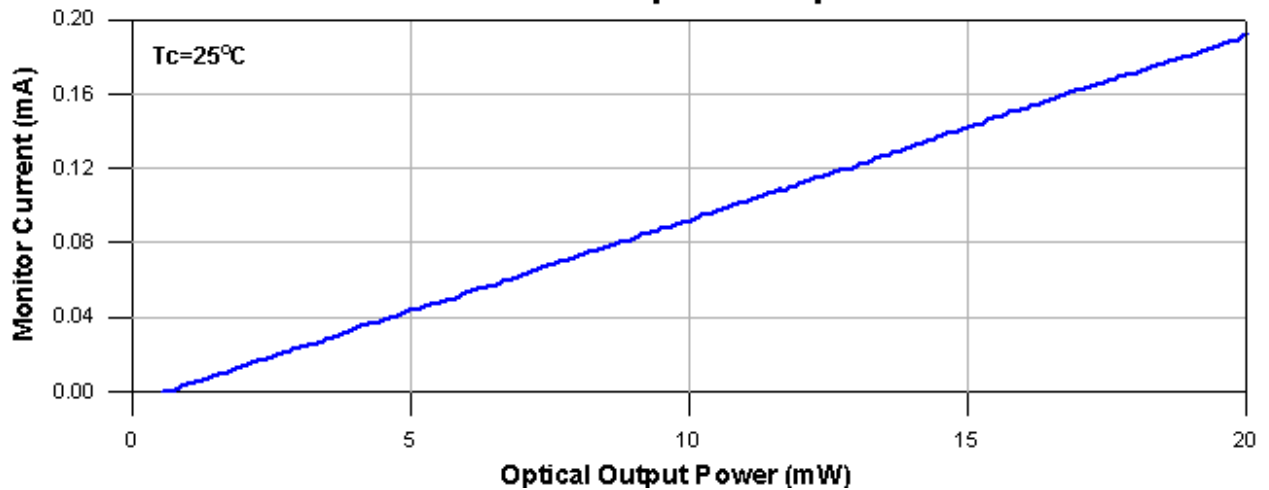




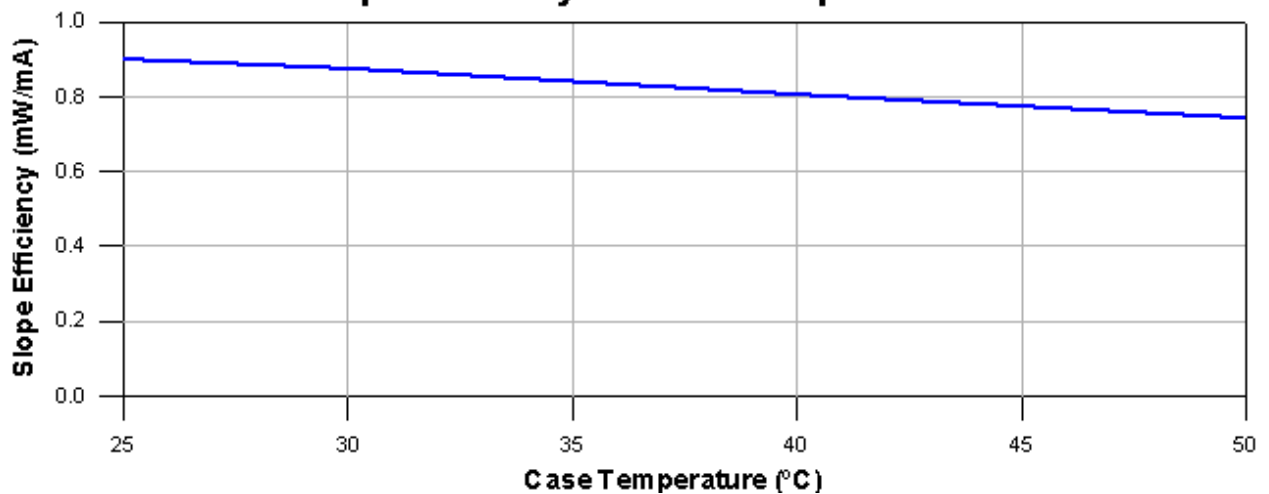
Far-Field Pattern



Monitor Current v.s. Optical Output Power



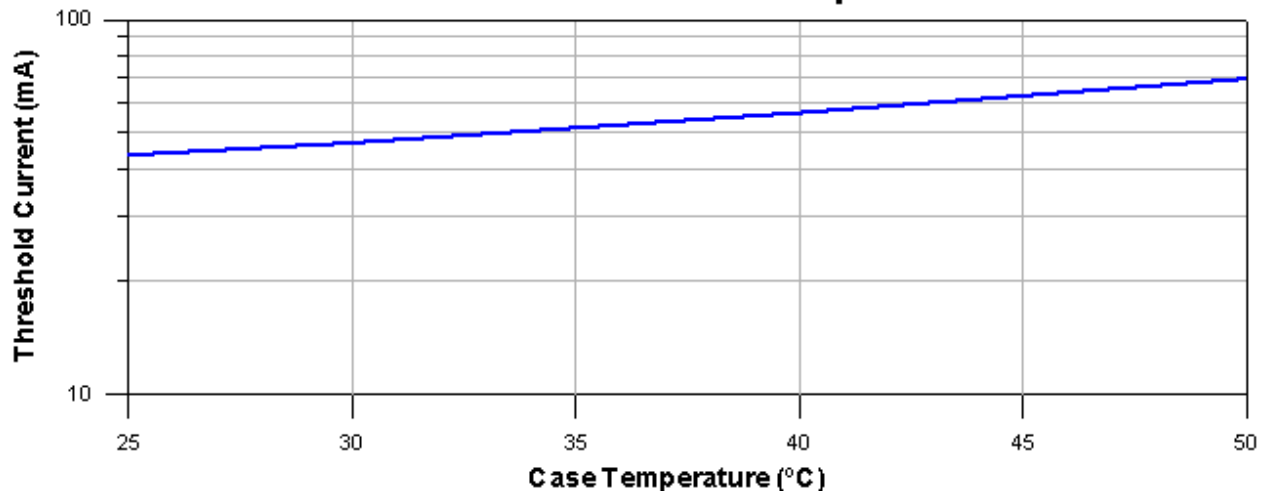
Slope Efficiency v.s. Case Temperature





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Threshold Current v.s. Case Temperature



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