

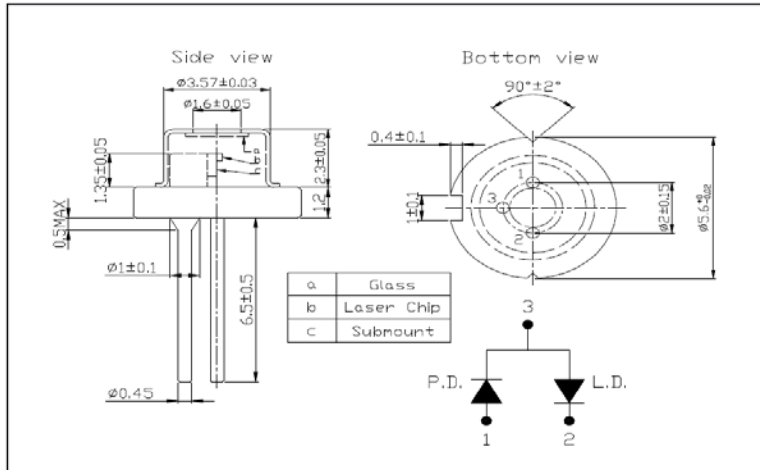


LD635-10-1

●Specifications:

- Wavelength: 635nm
- Power: 10mW 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	12	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($T_c=25^\circ\text{C}$):

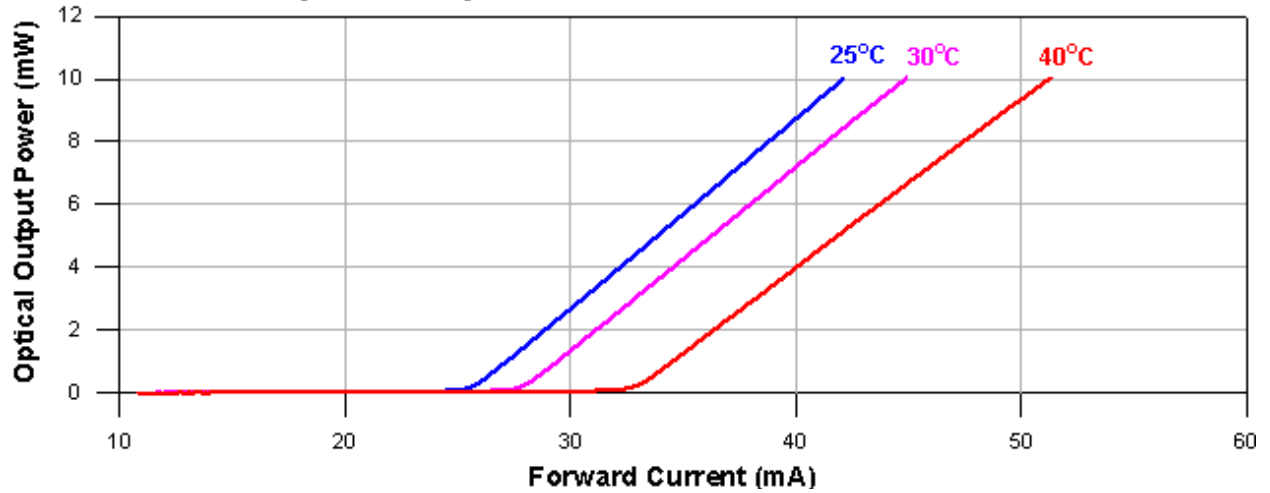
Parameter		Symbols	Condition	Min.	Typ.	Max.	Unit
Lasing Wavelength		λ_p	$P_o=20\text{mW}$	630	638	642	nm
Operating Current		I_{op}	$P_o=20\text{mW}$	-	45	60	mA
Operating voltage		V_{op}	$P_o=20\text{mW}$	-	2.2	2.6	V
Monitoring Output Current		I_m	$P_o=20\text{mW}$ $V_r=0\text{V}$	0.05	0.15	0.4	mA
Beam ¹⁾ Divergence	Parallel	$\theta_{//}$	$P_o=20\text{mW}$	6	8	12	deg.
	Perpendicular	θ_{\perp}	$P_o=20\text{mW}$	28	33	37	deg.
Slope Efficiency		η	-	0.3	0.6	-	mW/mA
Life Time (MTTF)				>5000			h

1) Full angle at half Maximum

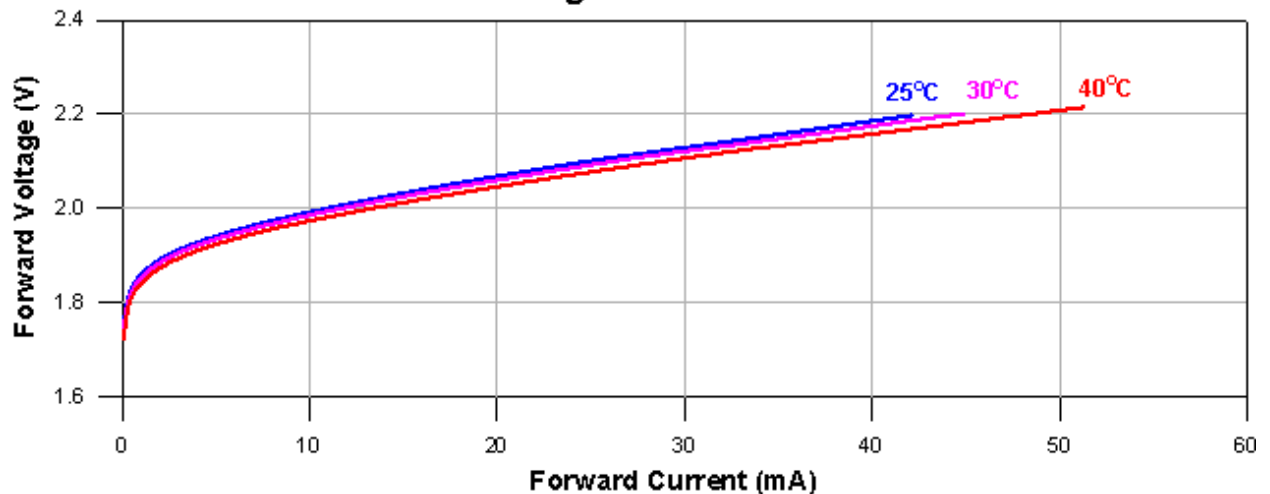


●Electrical and Optical Characteristics Curves($T_c=25^{\circ}\text{C}$):

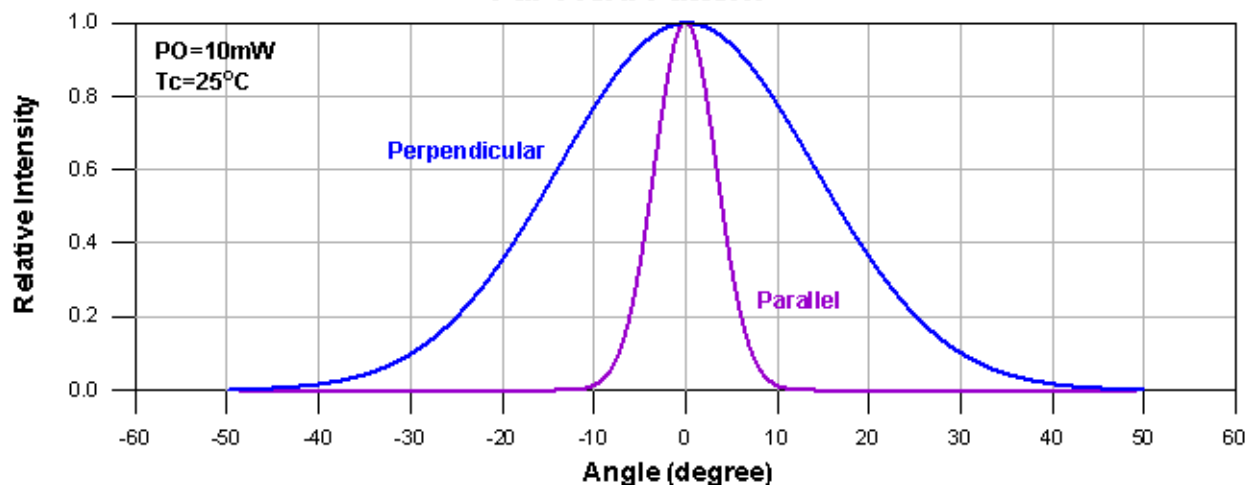
Optical Output Power v.s. Forward Current



Forward Voltage v.s. Forward Current

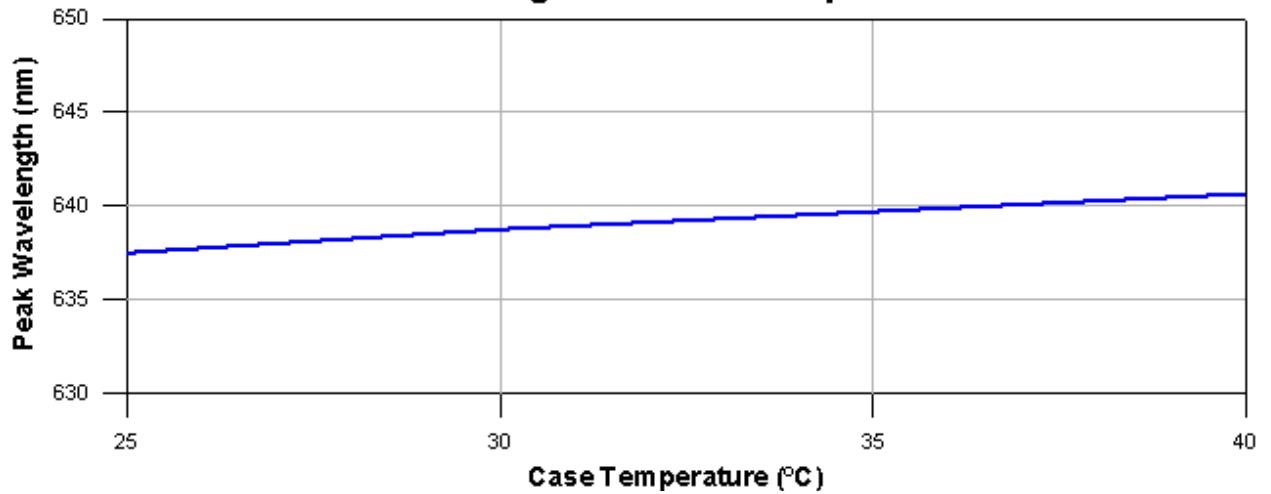


Far-Field Pattern

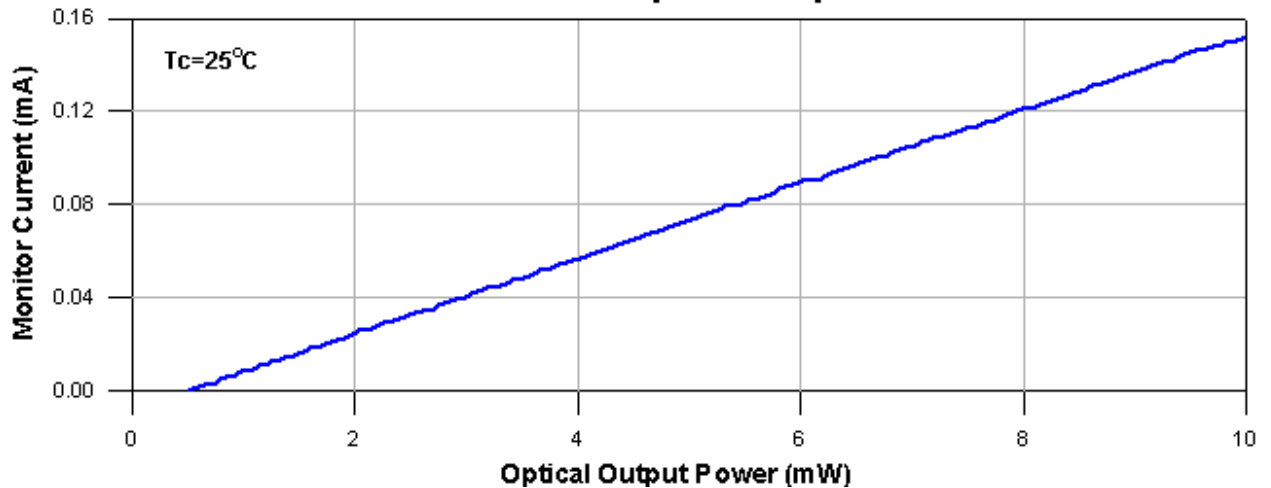




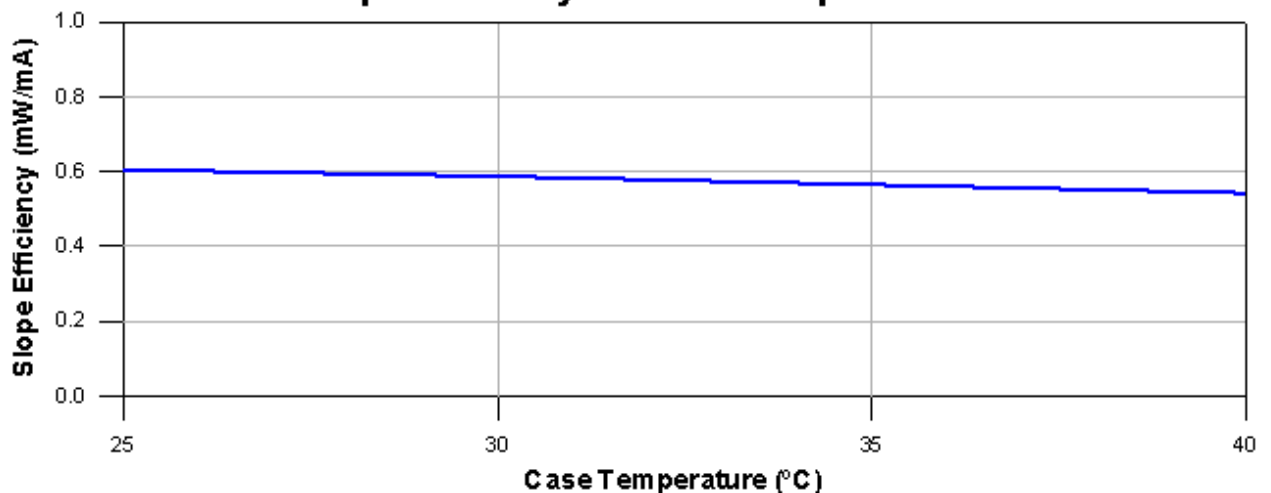
Peak Wavelength v.s. Case Temperature



Monitor Current v.s. Optical Output Power



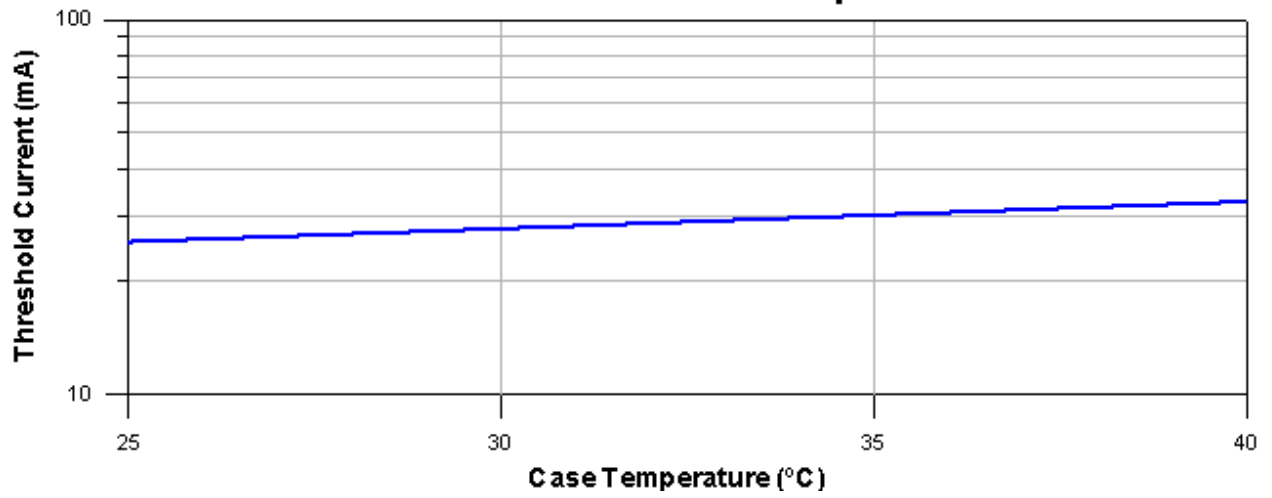
Slope Efficiency v.s. Case Temperature





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Threshold Current v.s. Case Temperature



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