



LD830-100-1

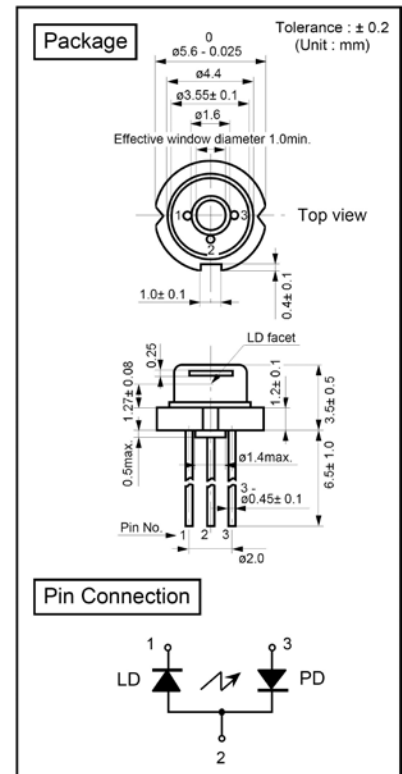
●Specifications:

Wavelength: 830nm
 Power: 100mW
 Package: TO18(Φ5.6), with Pb free glass cap,PD

●External dimensions (Unit:mm):

●Absolute Maximum Ratings(T_c=25°C):

Parameter		Symbols	Ratings	Units
Light Output		P _o	100	mW
Reverse Voltage	Laser	V _r	2	V
	PD	V _r (PIN)	30	V
Operation Temperature		T _{op}	-10~+50	°C
Storage Temperature		T _{stg}	-40~+85	°C

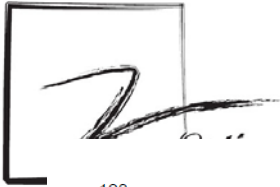


●Electrical and Optical Characteristics(T_c=25°C):

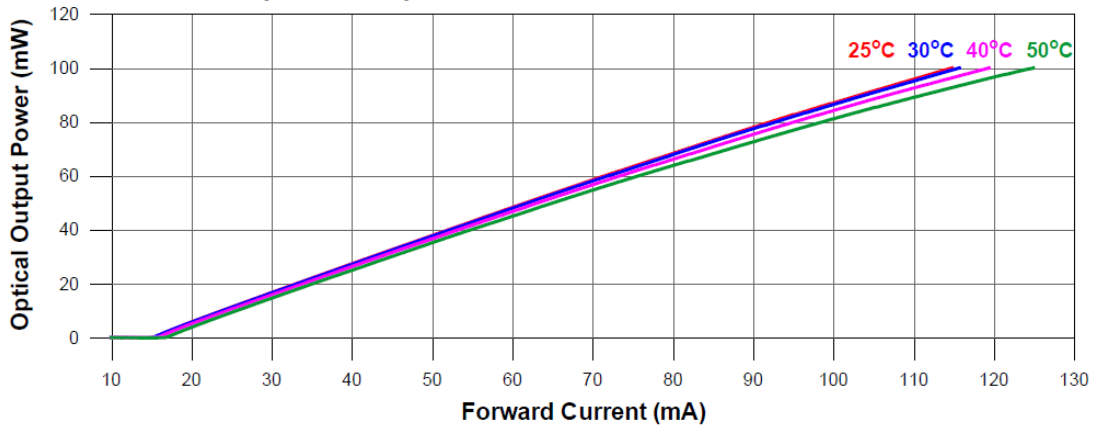
Parameter		Symbols	Condition	Min.	Typ.	Max.	Unit
Lasing Wavelength		λ _p	P _o =100mW	820	830	8640	nm
Threshold Current		I _{th}	-	-	14	20	mA
Operating Current		I _{op}	P _o =100mW	-	115	135	mA
Operating voltage		V _{op}	-	-	2.1	2.6	V
Monitoring Output Current		I _m	P _o =100mW V _r =0V	0.05	0.2	1	mA
Beam ¹⁾ Divergence	Parallel	θ _∥	P _o =5mW	-	10	15	deg.
	Perpendicular	θ _⊥	P _o =5mW	-	17	22	deg.
Slope Efficiency		η	75mW-25mW (I _{75mW} -I _{25mW})	-	1	-	mW/mA

1) Full angle at half Maximum

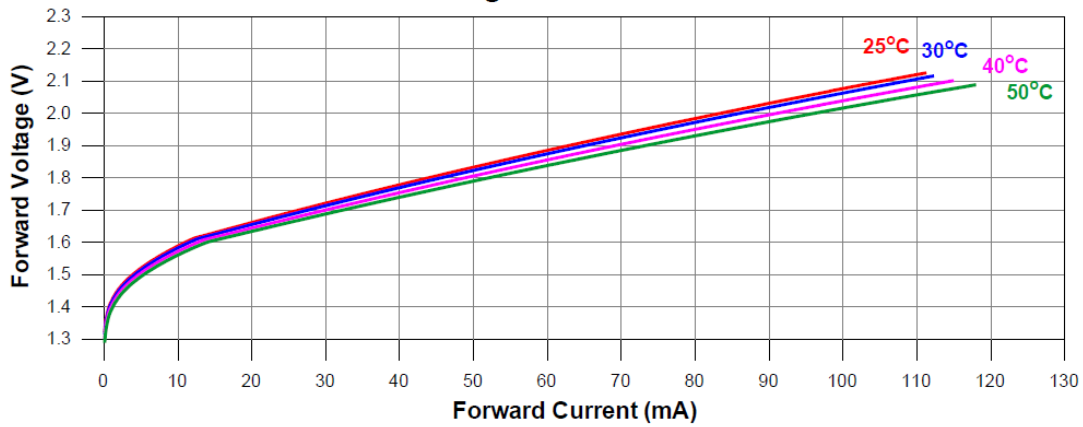
●Electrical and Optical Characteristics Curves(T_c=25°C):



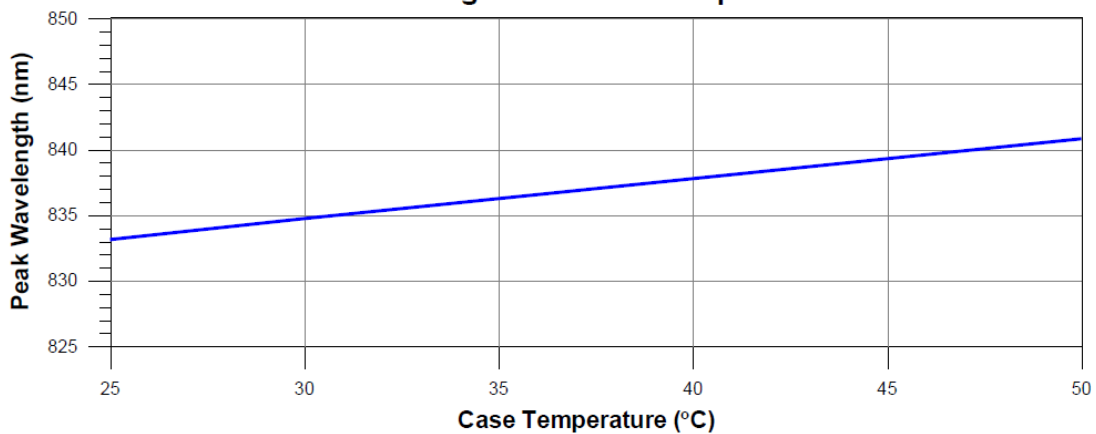
Optical Output Power v.s. Forward Current

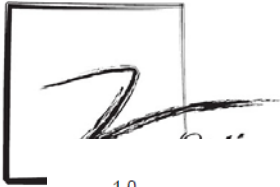


Forward Voltage v.s. Forward Current

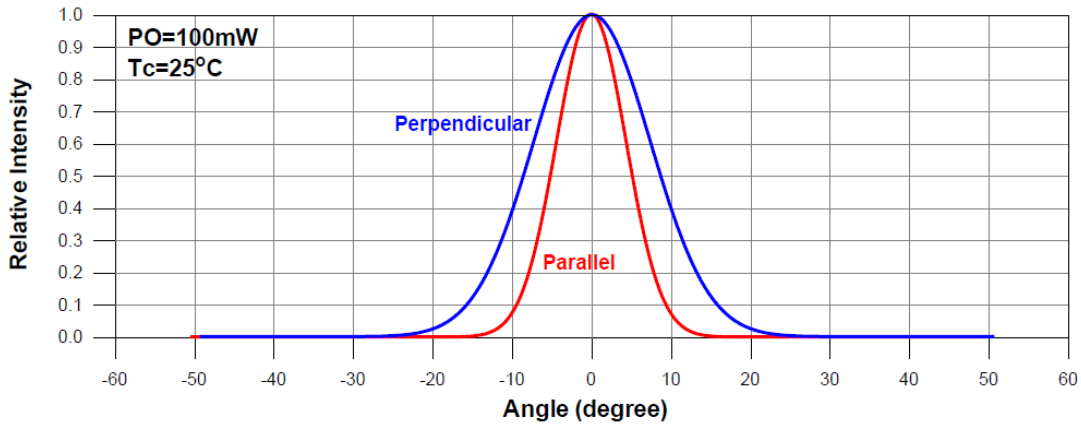


Peak Wavelength v.s. Case Temperature

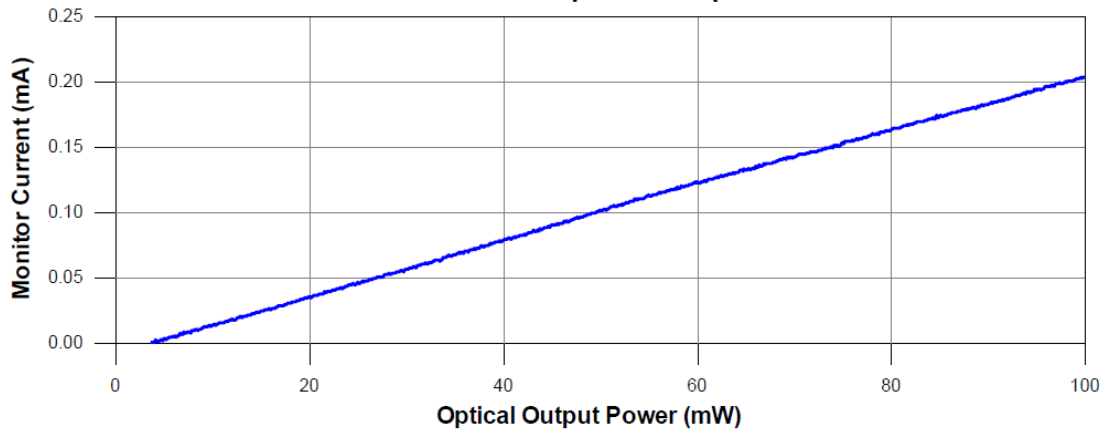




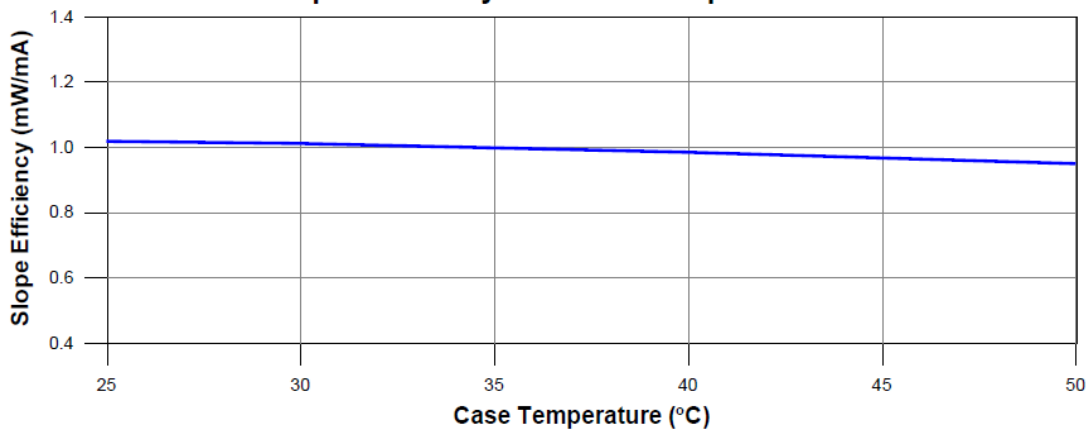
Far-Field Pattern

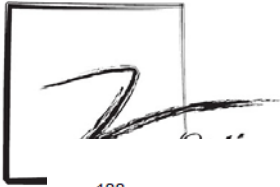


Monitor Current v.s. Optical Output Power



Slope Efficiency v.s. Case Temperature





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Threshold Current v.s. Case Temperature

