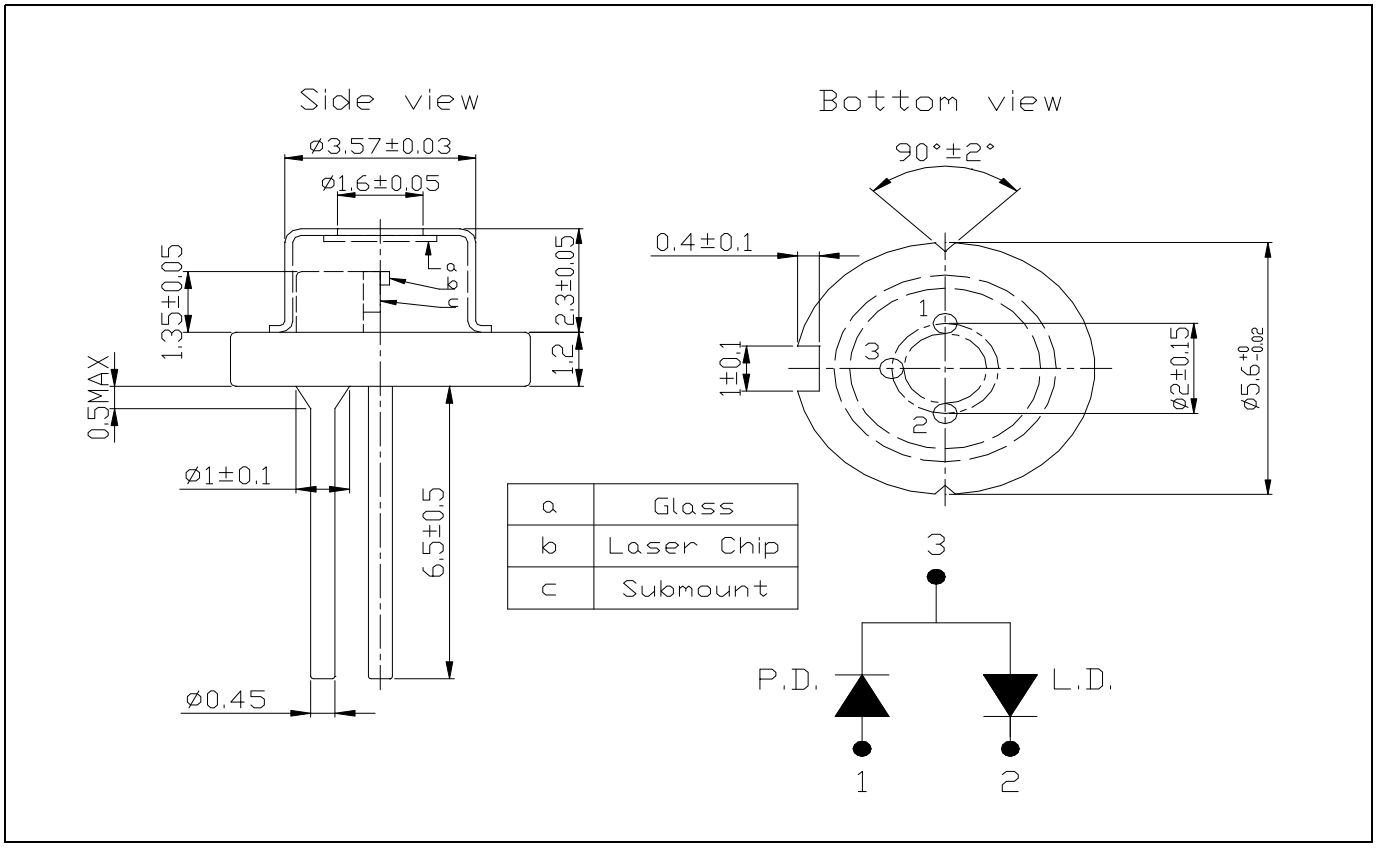
650nm Red Laser Diode
RLD650005

■Specifications

(1) Device: Laser Diode

(2) Structure: TO-18(ϕ 5.6mm),With Pb free glass cap, PD

■External dimensions(Unit : mm)



■Absolute Maximum Ratings(Tc=25℃)

Parameter		Symbol	Value	Unit
Optical Output		Po	**5**	mW
Reverse Voltage	Laser	Vr	**2**	V
	PIN PD	Vr(PIN)	**30**	V
Operating Temperature		Top	-10～+40	℃
Storage Temperature		Tstg	-15～+85	℃

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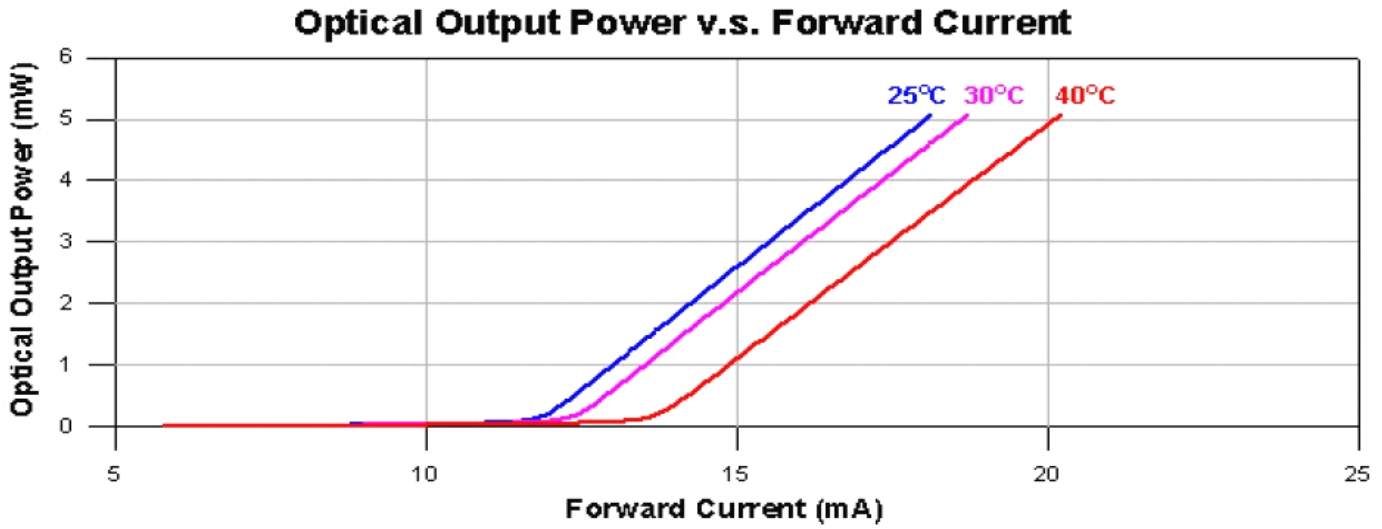
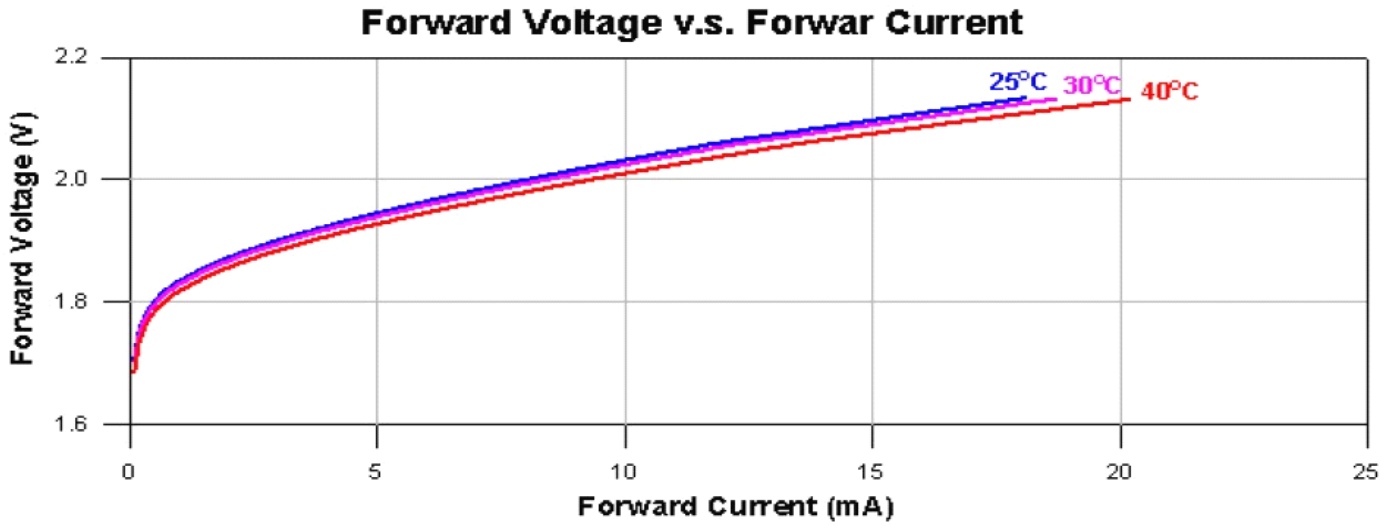
■Electrical and Optical Characteristics(Tc=25℃)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current		Ith	Po=5mW	-	12	25	mA
Operating Current		Iop	Po=5mW	-	18	25	mA
Operating Voltage		Vop	-	-	2.1	2.5	Volt
Slope Efficiency		η	4mW-1mW / I_{4mW}-I_{1mW}	0.4	0.8	-	mW/mA
Monitor Current		Im	Po=5mW	0.05	0.3	0.5	mA
Beam Divergence (FWHM)	Parallel	θ //	Po=5mW	5	9	12	deg.
	Perpendicular	θ ⊥	Po=5mW	30	36	42	deg.
Lasing Wavelength		λ	Po=5mW	640	655	660	nm

◎ θ // and θ ⊥ are defined as the angle within which the intensity is 50% of the peak value.

■Typical characteristic curves





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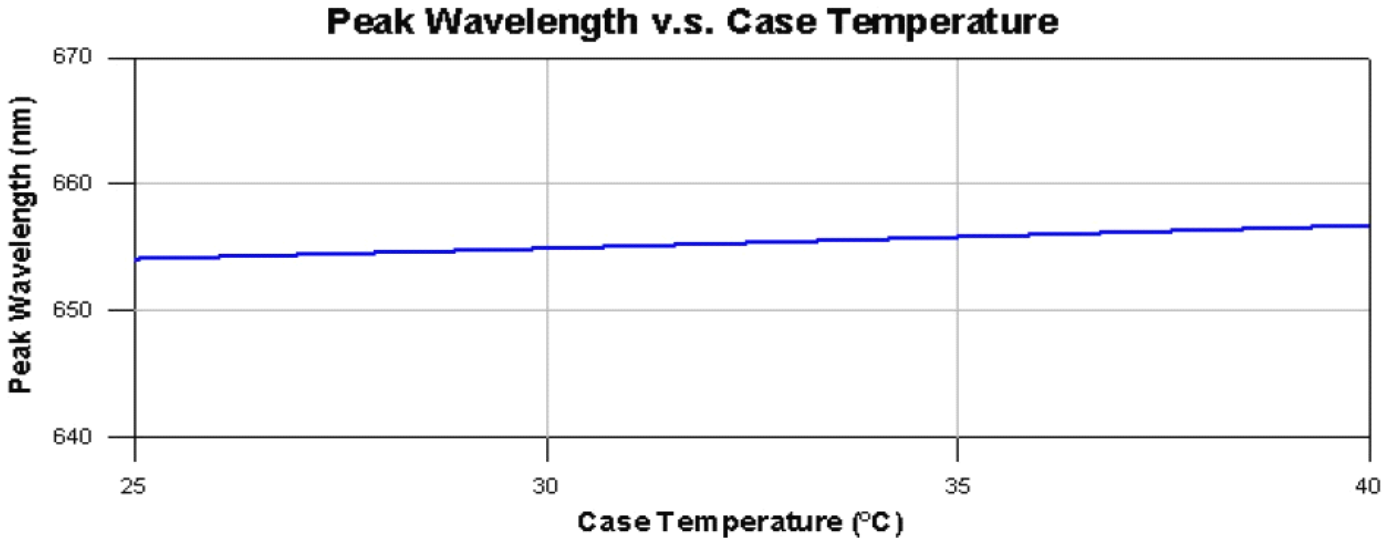

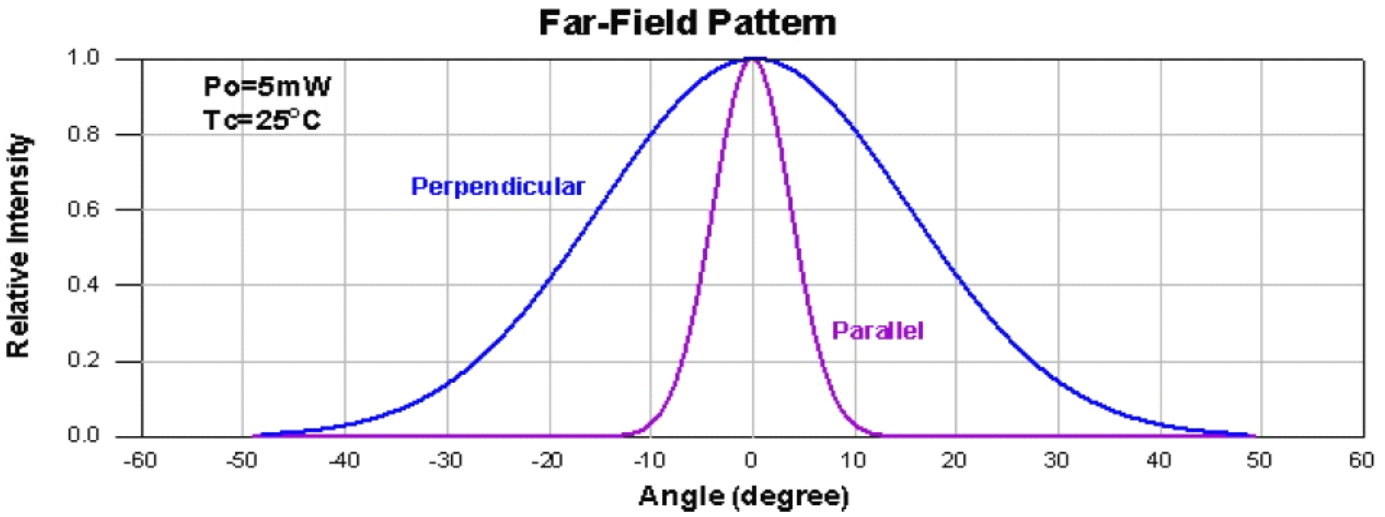

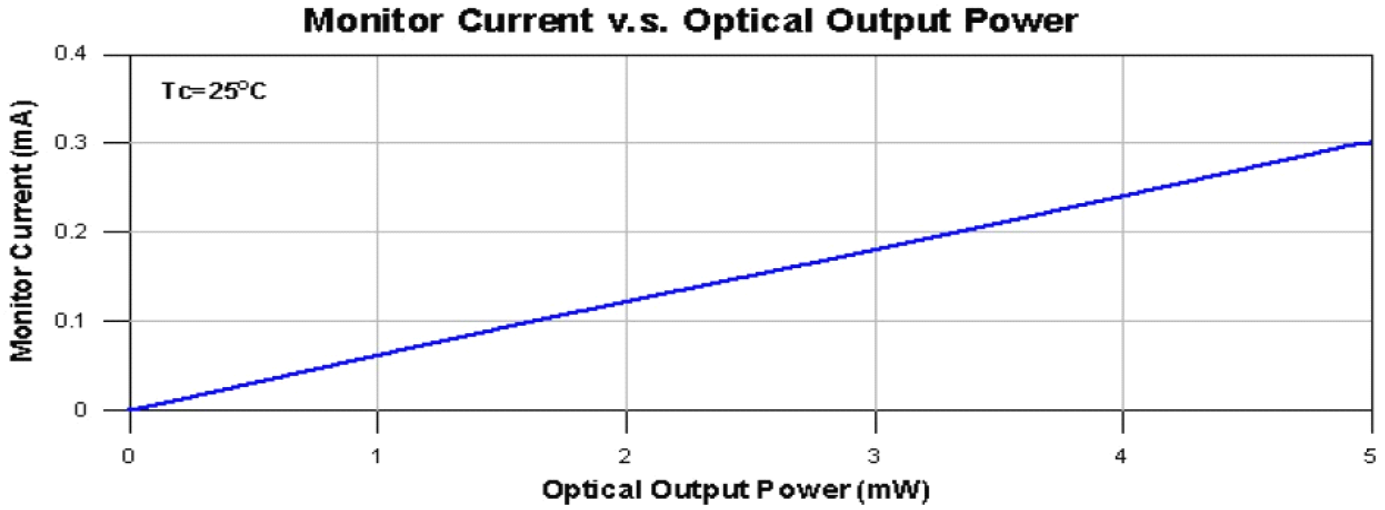

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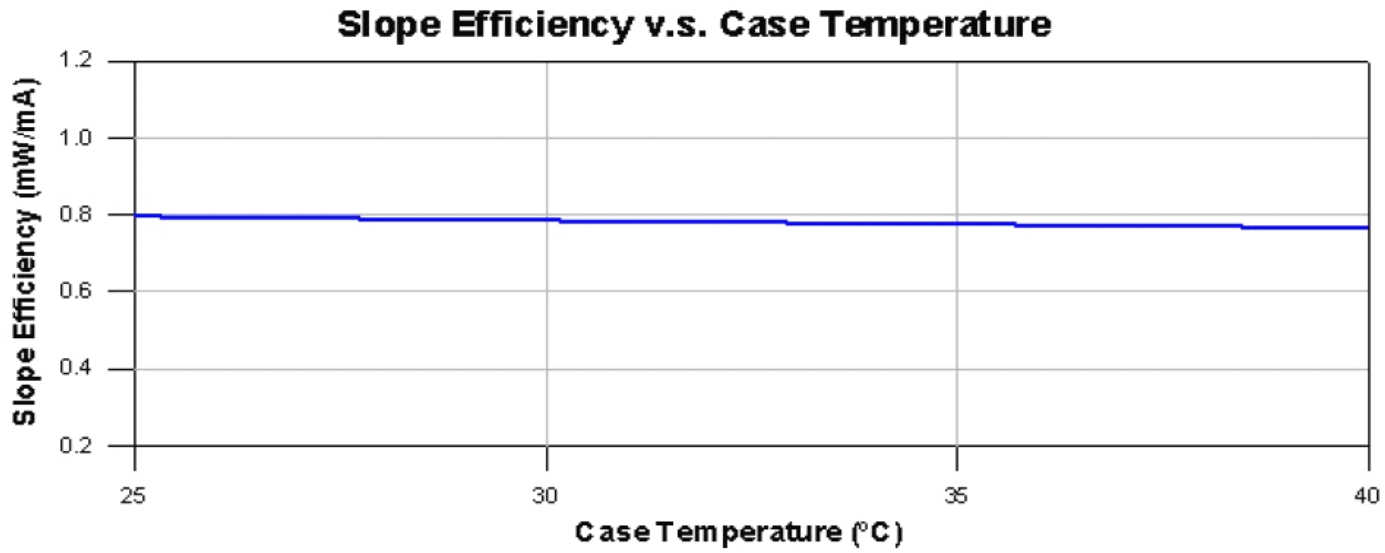

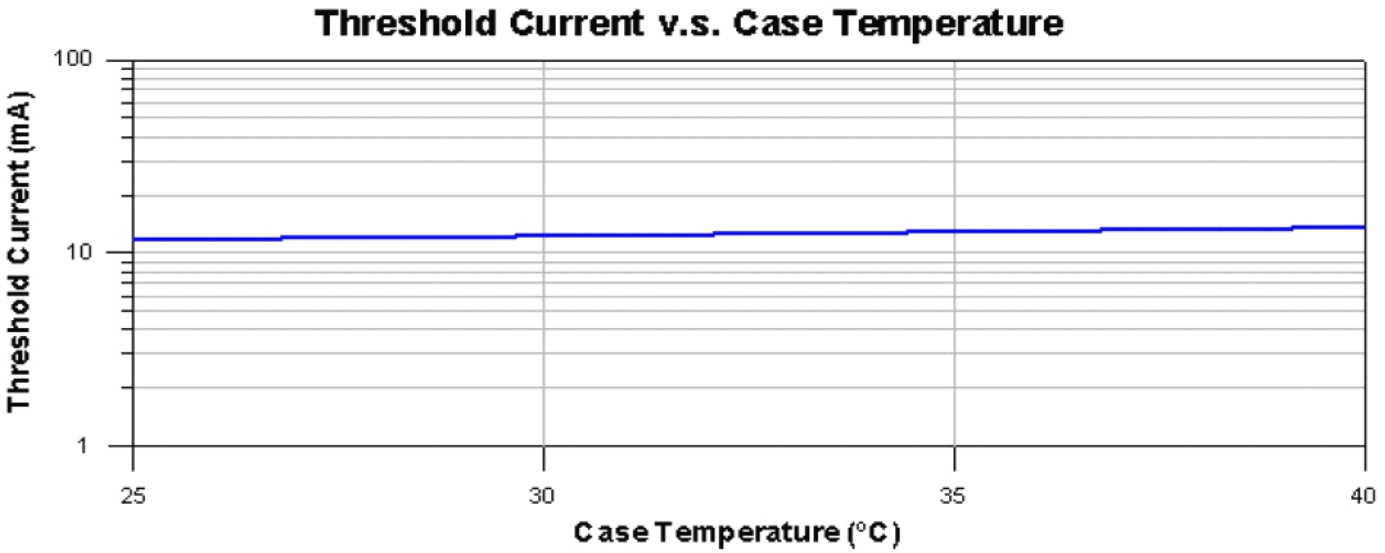

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