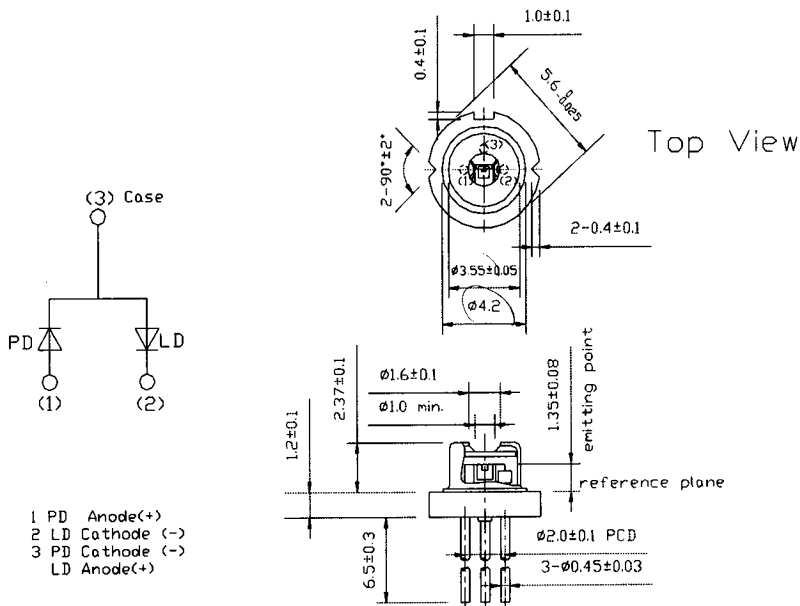


■ Specifications

- (1) Device: Laser Diode
 (2) Structure: TO-18(\varnothing 5.6mm)

■ External dimensions(Unit : mm)



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

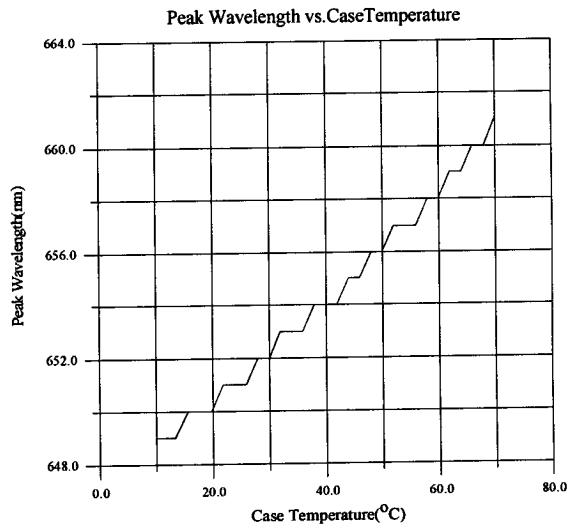
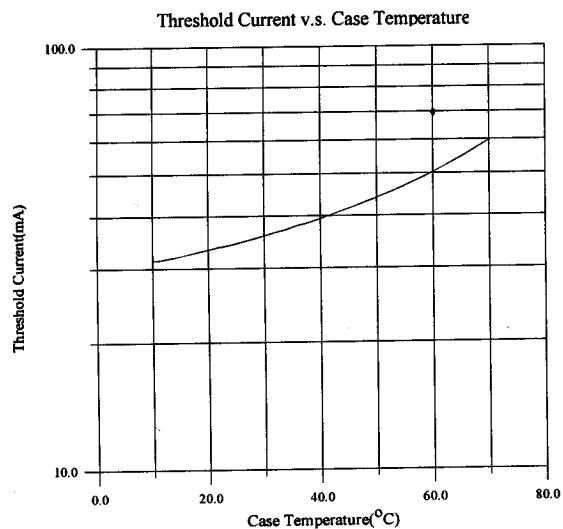
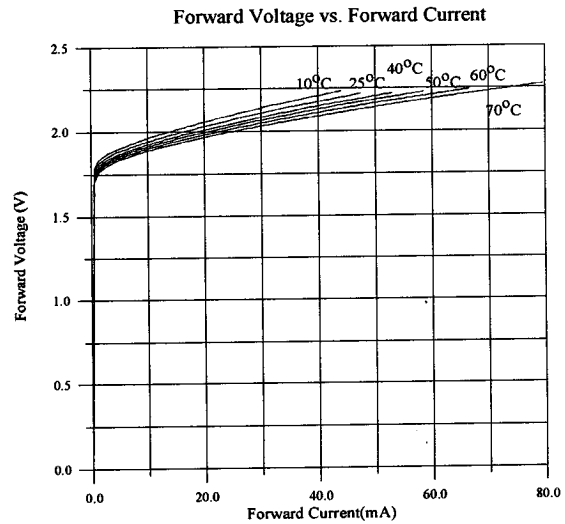
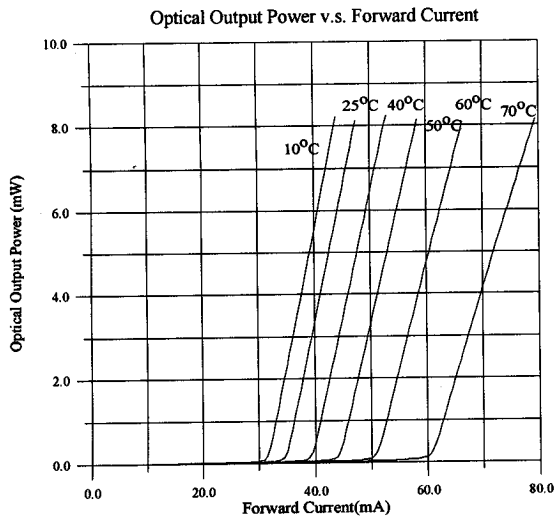
Parameter	Symbol	Value	Unit
Optical Output	Po	12	mW
Reverse Voltage	Laser	Vr	V
	PIN PD	Vr(PIN)	30
Operating Temperature	Top	-10~+40	$^\circ\text{C}$
Storage Temperature	Tstg	-15~+85	$^\circ\text{C}$

Electrical and Optical Characteristics(Tc=25°C)

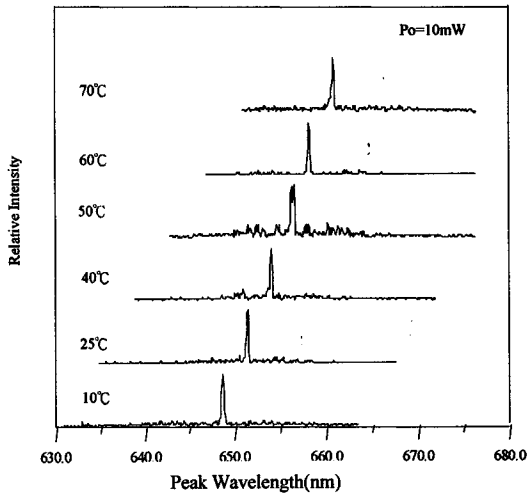
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit	
Threshold Current	I _{th}		-	24	40	mA	
Operating Current	I _{op}	P _o =10mW	-	40	50	mA	
Operating Voltage	V _{op}	-	-	2.4	2.8	Volt	
Slope Efficiency	η	7mW-3mW	0.3	0.6	-	mW/mA	
		I _{7mW} -I _{3mW}					
Monitor Current	I _m	P _o =10mW	0.1	0.3	1	mA	
Beam Divergence (FWHM)	Parallel	$\theta_{//}$	P _o =10mW	5	8	12	deg.
	Perpendicular	θ_{\perp}	P _o =10mW	26	30	32	deg.
Lasing Wavelength	λ	P _o =10mW	640	655	665	nm	

© $\theta_{//}$ and θ_{\perp} are defined as the angle within which the intensity is 50% of the peak value.

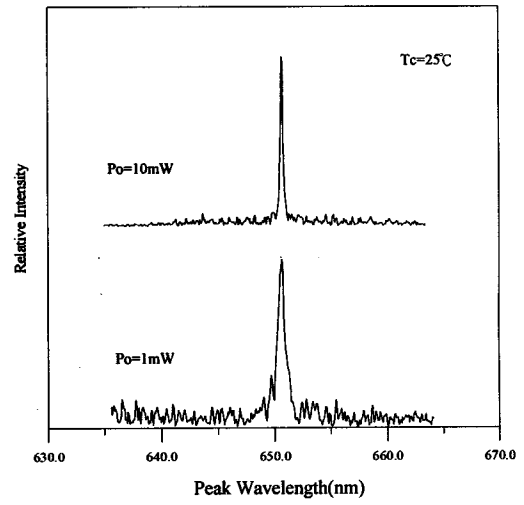
Typical characteristic curves



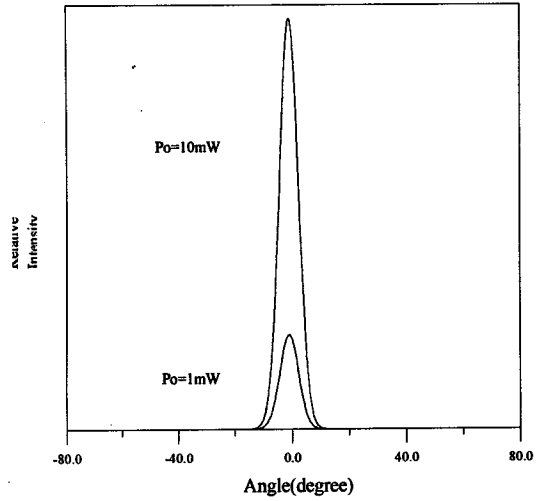
Lasing Spectrum v.s. Temperature



Lasing Spectrum v.s. Optical Output Power



Far-Field Pattern(Parallel) vs. Optical Output Power



Far-Field Pattern(Perpendicular) vs. Optical Output Power

