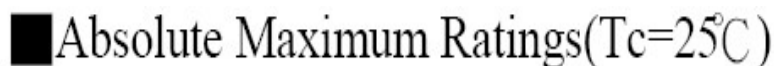


■ Specifications

- External dimensions(Unit : mm)



Parameter		Symbols	Value	Units
Optical Output		Po	12	mW
Reverse Voltage	Laser	Vr	2	V
	PIN PD	Vr(PIN)	30	V
Operating Temperature		Top	-10~+40	°C
Storage Temperature		Tstg	-40~+85	°C

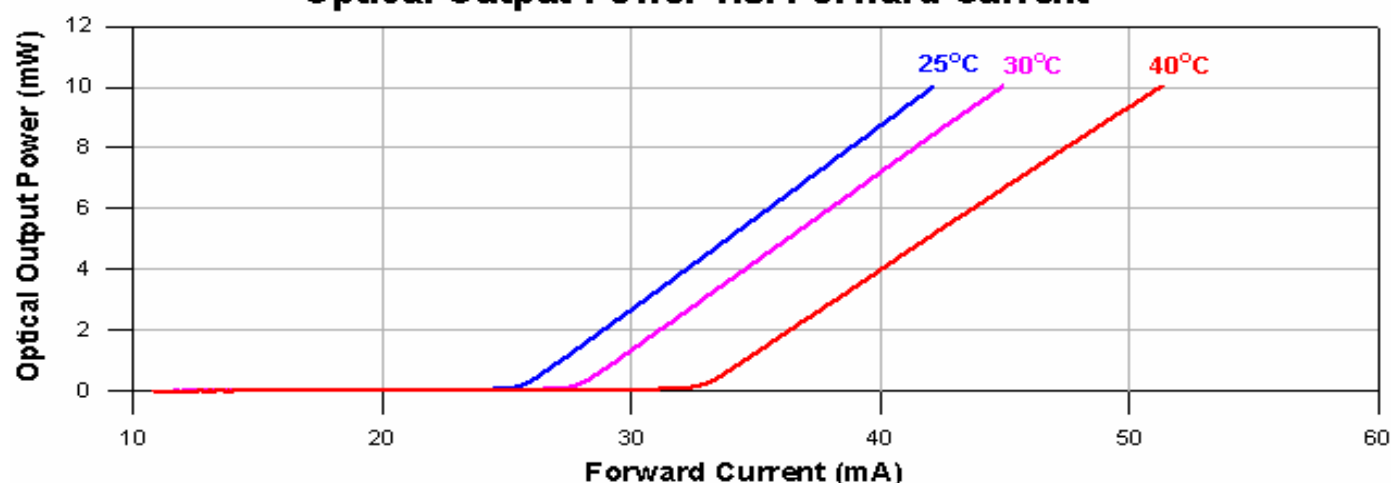
■ Electrical and Optical Characteristics(Tc=25°C)

Parameter		Symbols	Conditions	Min.	Typ.	Max.	Units
		I _{th}		-	30	40	mA
Operating Current		I _{op}	P _o =10mW	-	45	60	mA
Operating Voltage		V _{op}	-	-	2.2	2.6	Volts
Slope Efficiency		η	7mW-3mW	0.3	0.6	-	mW/mA
			I _{7mW} -I _{3mW}				
Monitor Current		I _m	P _o =10mW	0.05	0.15	0.4	mA
Beam Divergence (FWHM)	Parallel	$\theta //$	P _o =10mW	6	8	12	deg.
	Perpendicular	$\theta \perp$	P _o =10mW	28	33	37	deg.
Lasing Wavelength		λ	P _o =10mW	630	638	642	nm

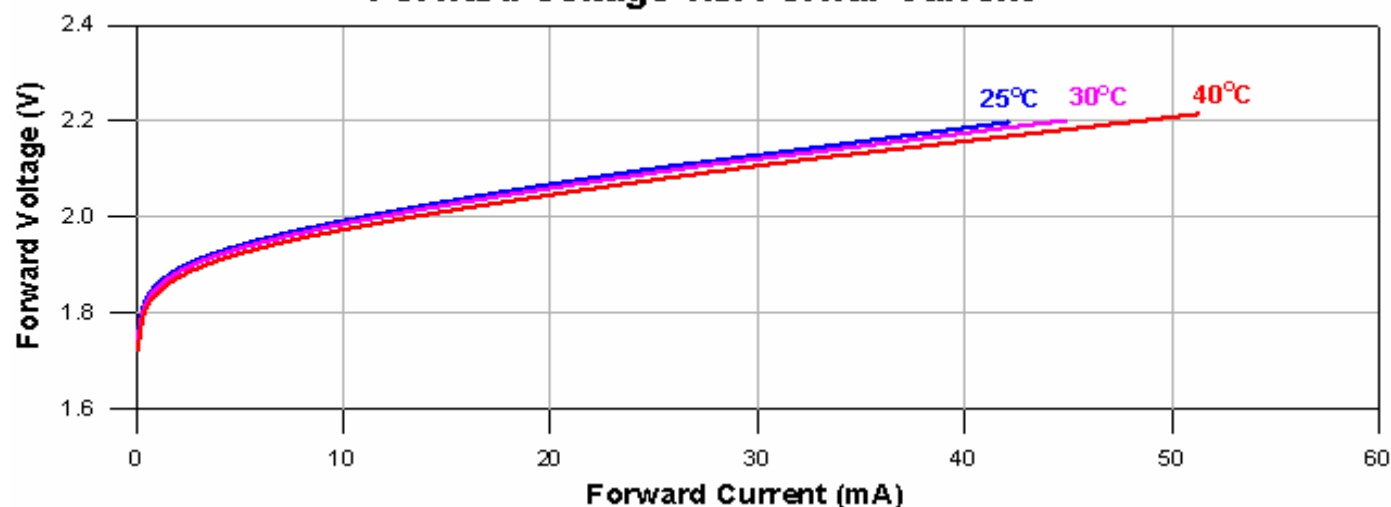
◎ $\theta //$ and $\theta \perp$ are defined as the angle within which the intensity is 50% of the peak value.

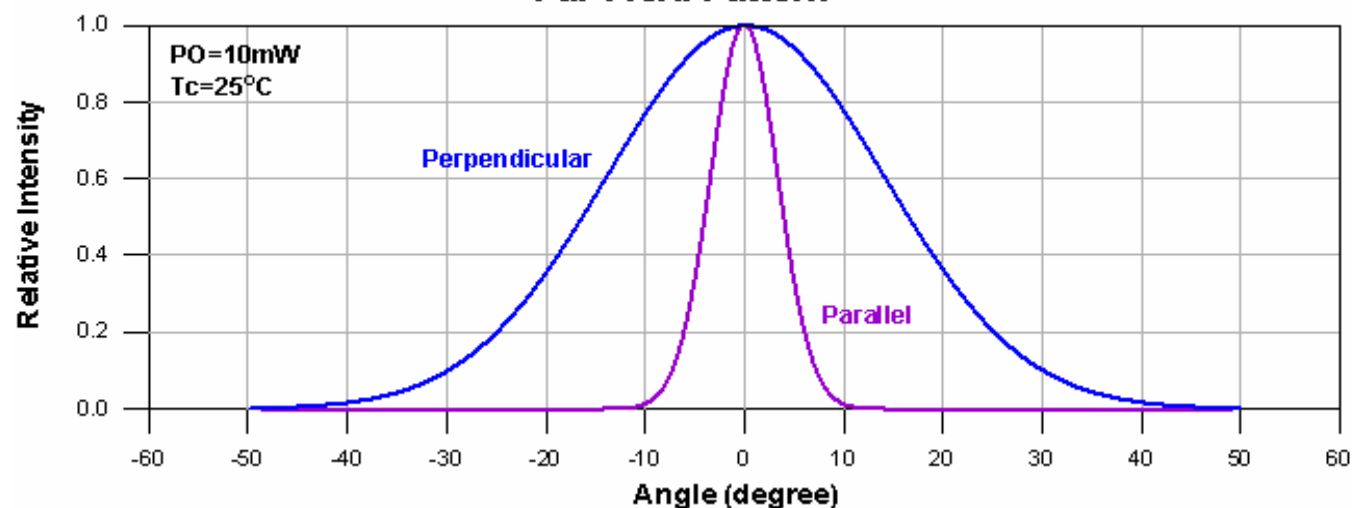
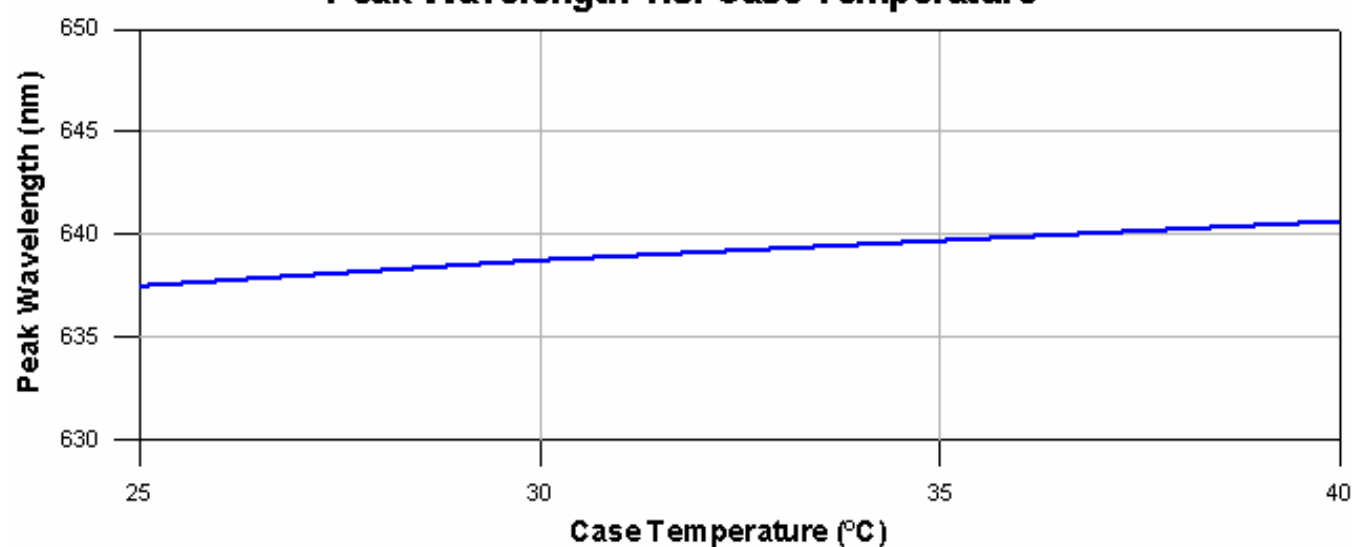
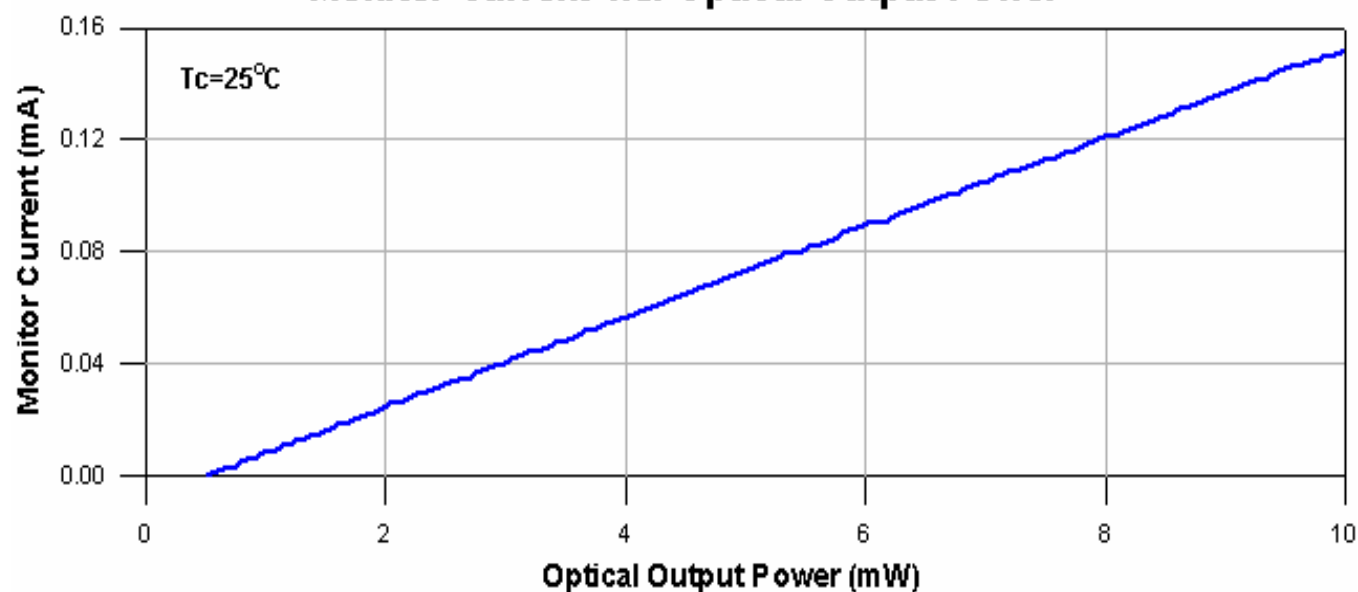
■ Typical characteristic curves

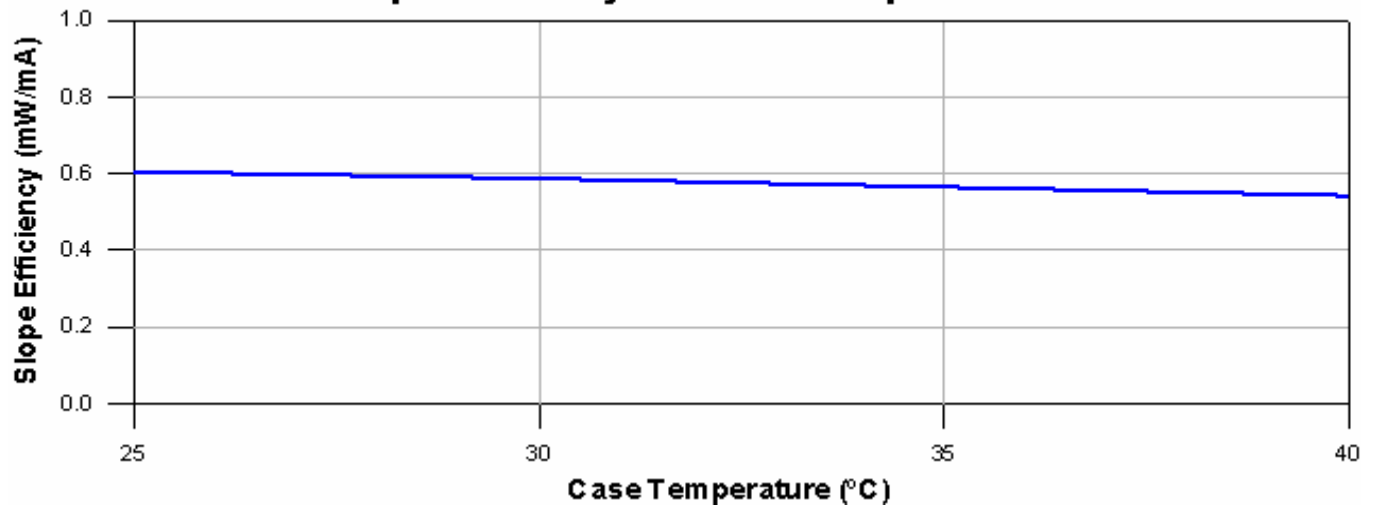
Optical Output Power v.s. Forward Current



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**Threshold Current v.s. Case Temperature**