

980nm Laser Diode

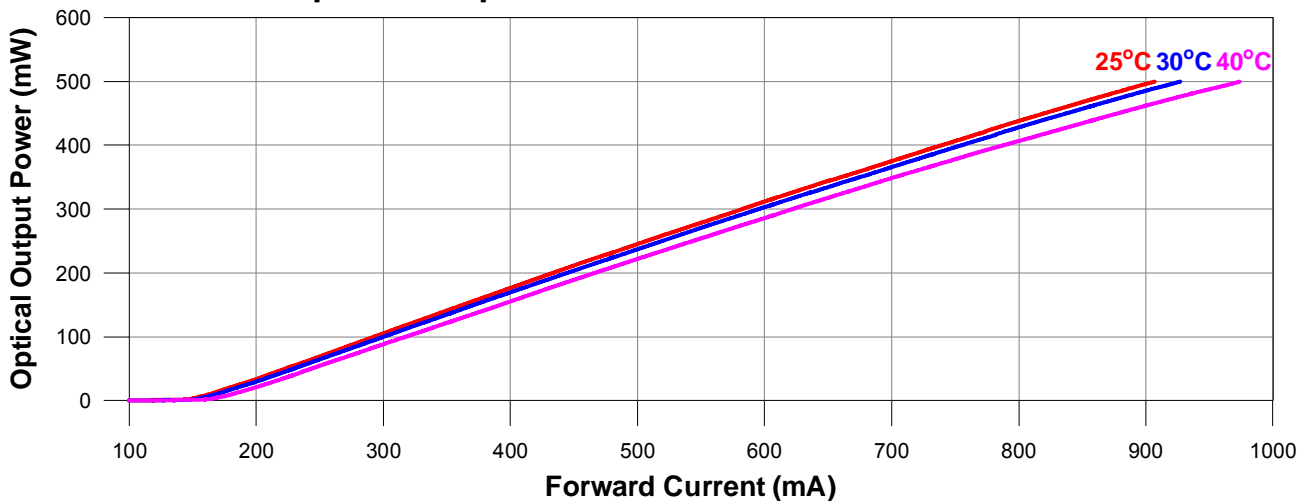
Electrical and Optical Characteristics(Tc=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit	
Threshold Current	I _{th}	-	-	150	200	mA	
Operating Current	I _{op}	P _o =500mW	-	910	1200	mA	
Operating Voltage	V _{op}	-	1.2	1.6	2.3	Volt	
Slope Efficiency	η	375mW-125mW	0.5	0.65	-	mW/mA	
		I _{375mW} -I _{125mW}					
Beam Divergence (FWHM)	Parallel	$\theta //$	P _o =500mW	-	7	-	deg.
	Perpendicular	$\theta \perp$	P _o =500mW	28	31	42	deg.
Lasing Wavelength	λ	P _o =500mW	970	980	990	nm	

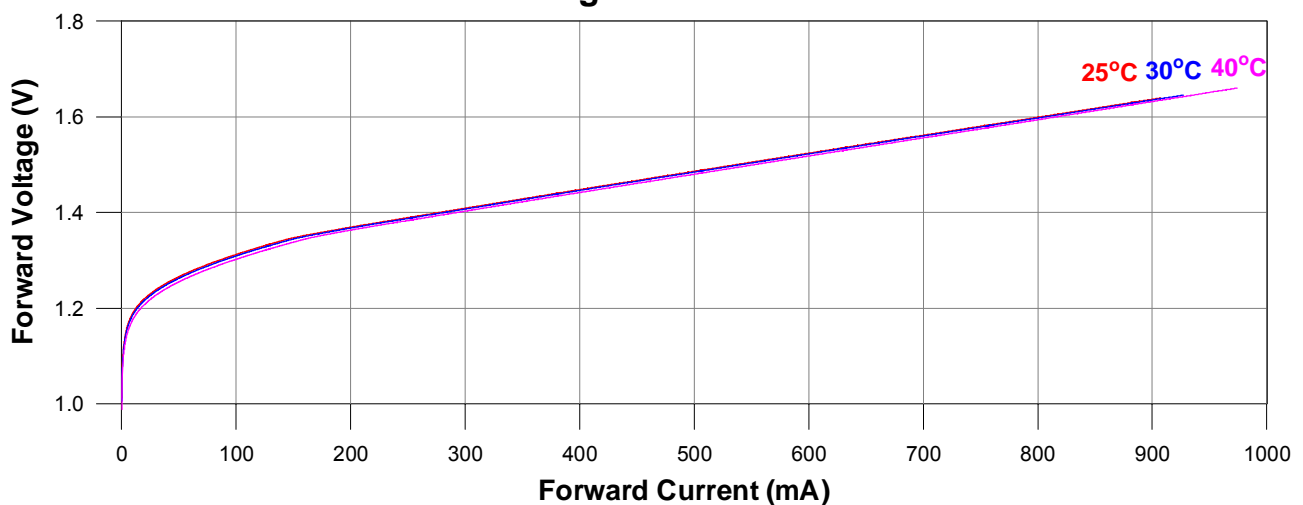
© $\theta \perp$ are defined as the angle within which the intensity is 50% of the peak value.

Typical characteristic curves

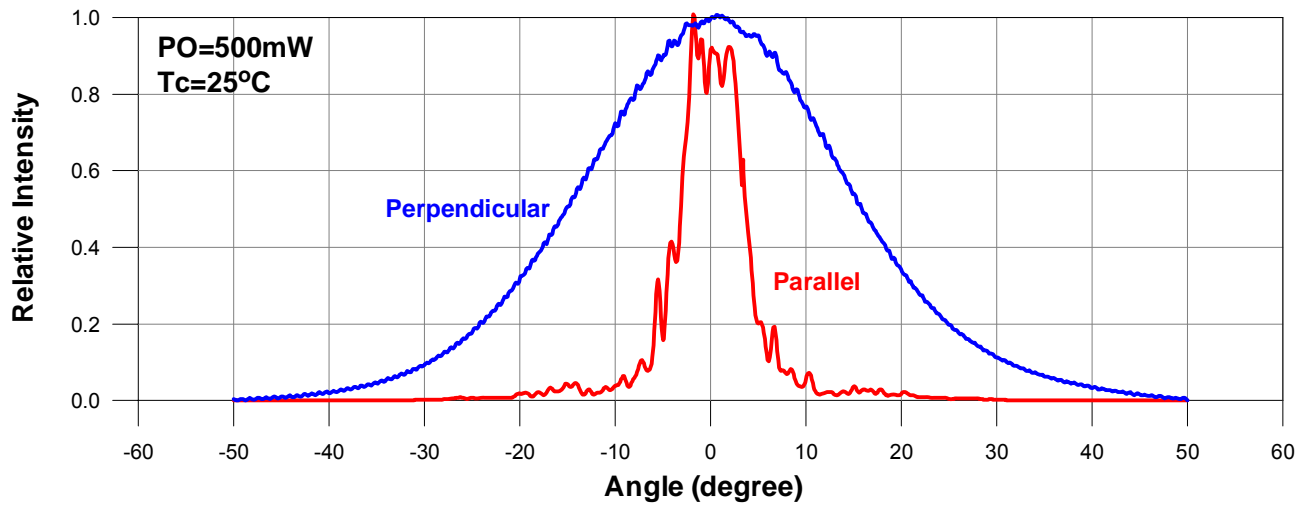
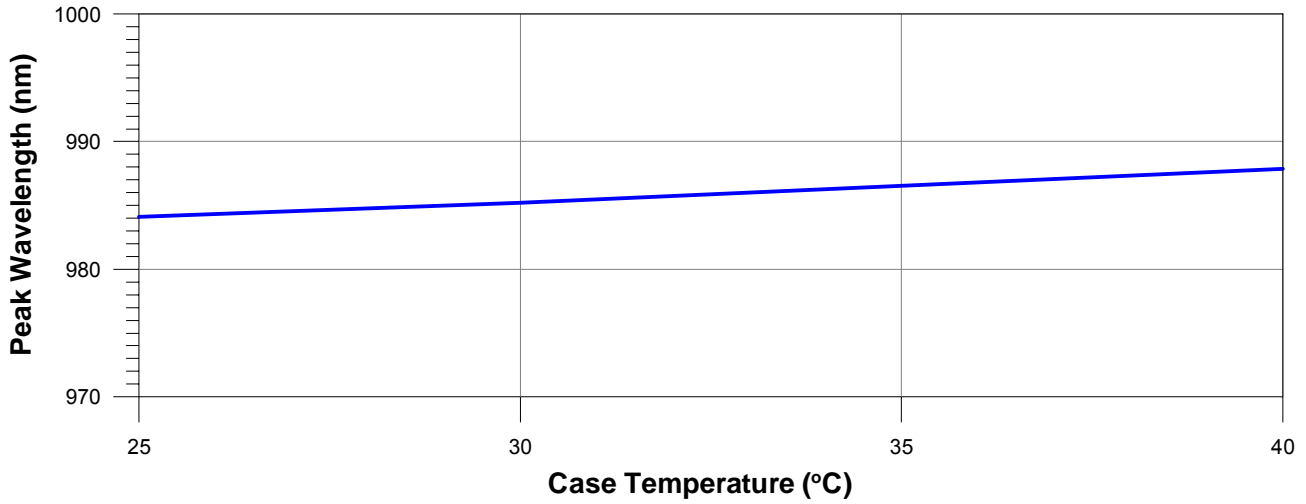
Optical Output Power v.s. Forward Current



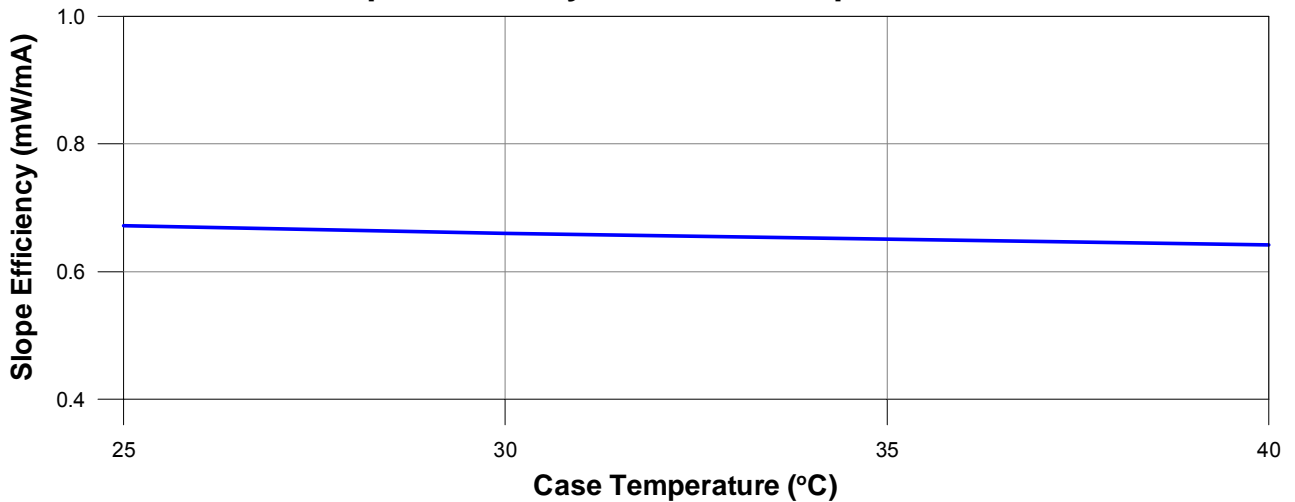
Forward Voltage v.s. Forward Current



Peak Wavelength v.s. Case Temperature



Slope Efficiency v.s. Case Temperature



Threshold Current v.s. Case Temperature

