



638nm 2.1W laser diode

(P/N.: FP-2100-638-TO-01)

Applications

- Laser projector

Absolute maximum ratings

(measured at 25°C)

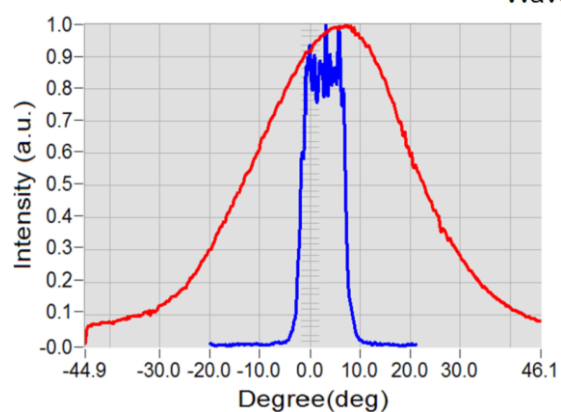
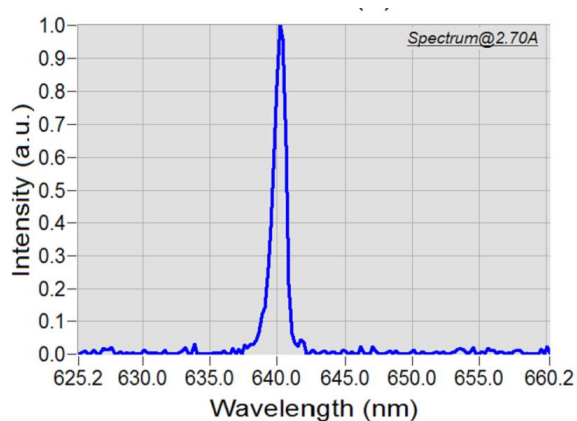
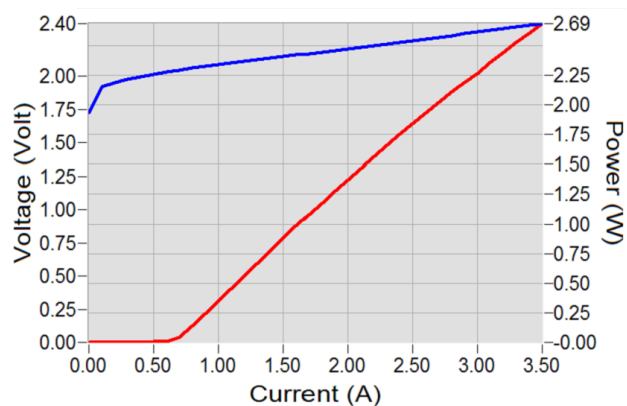
Parameter	Min	Typ	Max	Unit
Operating Current			2.9	A
Reverse Voltage			2	V
Operating Temperature	-10	-	50	°C
Storage Temperature	-40	-	100	°C

Optical parameters

(measured at 25°C)

measured at 25 °C)

Parameter		Min	Typ	Max	Unit
Central Wavelength		635	640	645	nm
Spectral Bandwidth		-	1	-	nm
Wavelength Temp. Coeff.		-	0.18	-	nm/°C
Optical Power		-	2.1		W
Threshold Current		-	0.7	-	A
Operating Current		2.5	2.7	2.9	A
Operating Voltage		-	2.4	2.5	V
Slope Efficiency		-	1.1	-	W/A
Wall plug efficiency		-	32	-	%
Divergence	Parallel (at 95%)	3	8	13	°
	Perpendicular (at FWHM)	35	40	45	°



Dimensional outline (units = mm)

