



LASER DIODE FOLD-785-175S-VBG

FOLD-785-175S-VBG is a single mode semiconductor laser diode with 175mW CW output power at 785nm. Due to the integrated VBG the wavelength is fixed and the spectral width is very narrow. It is suitable for the use in various opto-electronic applications.

APPLICATIONS:

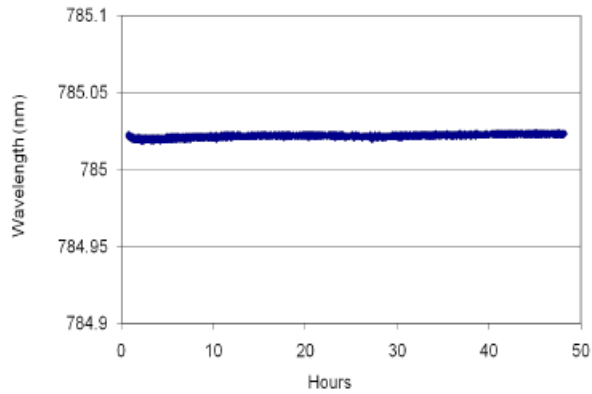
- Raman Spectroscopy
- Bio-Instrumentation
- Metrology
- Sensing
- Analytical Instrumentation

Optical and electrical characteristics (T = 25°C, P = 175mW):

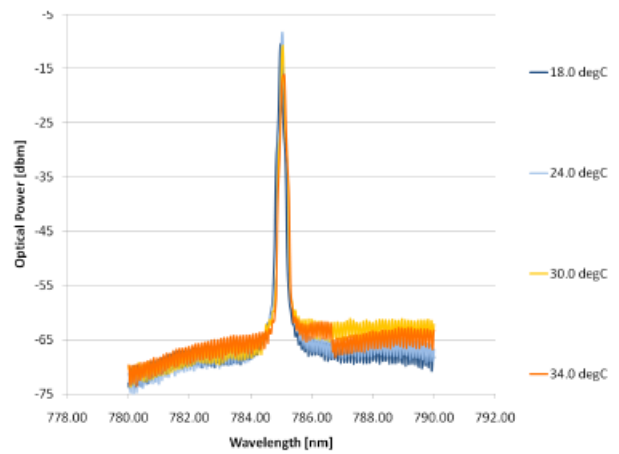
Operating Parameters	Symbol	Min	Typ	Max	Unit
Optical Power	P_{out}	-	175	-	mW
Wavelength	λ	784.5	785	78.5	nm
Line Width	$\Delta\lambda$	-	12	-	MHz
Threshold Current	I_{th}	-	80	110	mA
Forward Current	I_f	-	350	500	mA
Forward Voltage	V_f	-	2.0	2.8	V
Slope Efficiency	$\Delta P/\Delta I$	-	0.6	-	mW/mA
Beam Divergence, Perpendic.	$\Theta_{\perp}$	-	0.2	-	°
Beam Divergence, Parallel	$\Theta_{\parallel}$	-	0.1	-	°
Operating Temperature	T_{op}	0	-	35	°C
Central Stabilized Temperature	T_c	15	25	40	°C
Stabilized Temperature Range	T_r	10	-	-	°C
Storage Temperature	T_s	-10	-	60	°C
Polarization	100:1				
Collimated Beam Diameter	0.25x0.7				

PERFORMANCE AND PACKAGE SPECIFICATION

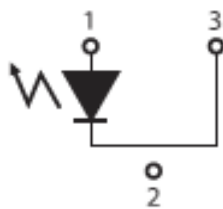
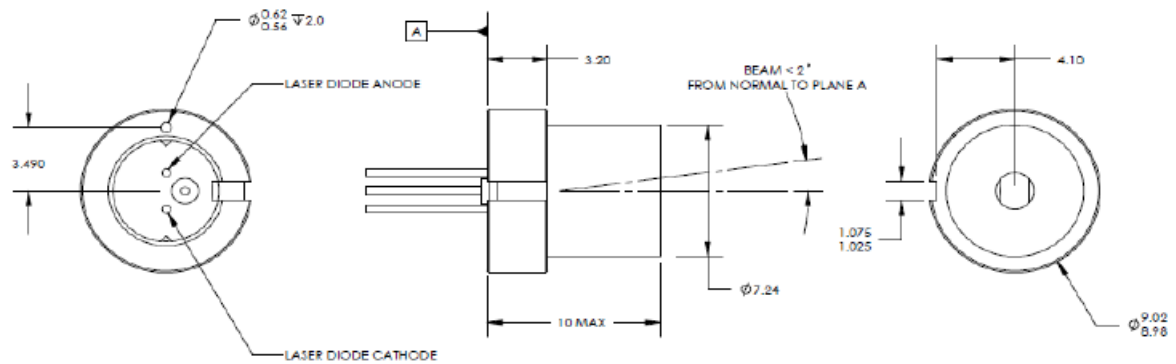
Wavelength Stability



Optical Spectrum (Sample)



Outline Drawing



Pinout	
1	LD Anode
2	Case
3	LD Cathode