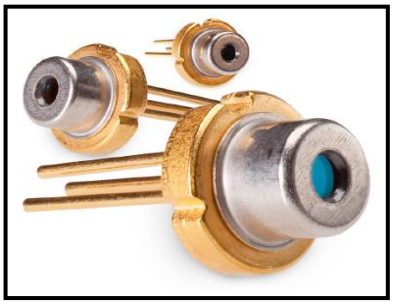

LASER DIODE FOLD-785-100S-VBG

FOLD-785-100S-VBG is a single mode semiconductor laser diode with 100mW 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 = 100mW):

Operating Parameters	Symbol	Min	Typ	Max	Unit
Optical Power	P_{out}	-	-	100	mW
Wavelength	λ	784	785	786	nm
Line Width	$\Delta\lambda$	-	175	-	MHz
Threshold Current	I_{th}	-	50	-	mA
Forward Current	I_f	-	130	200	mA
Forward Voltage	V_f	-	1.3	2.2	V
Reverse Voltage	V_r	-	-	2	V
Slope Efficiency	$\Delta P/\Delta I$	-	0.9	-	mW/mA
Beam Divergence, Perpendic.	$\Theta_\perp$	-	25	-	°
Beam Divergence, Parallel	$\Theta_{\|\|}$	-	10	-	°
Operating Temperature	T_{op}	0	-	40	°C
Central Stabilized Temperature	T_c	15	-	35	°C
Stabilized Temperature Range	T_r	15	-	-	°C
Storage Temperature	T_s	-20	-	70	°C
Emitter Size	E_s	1.5 x 3			µm
Coherence Length	> 1m				
Polarization Orientation	TE				

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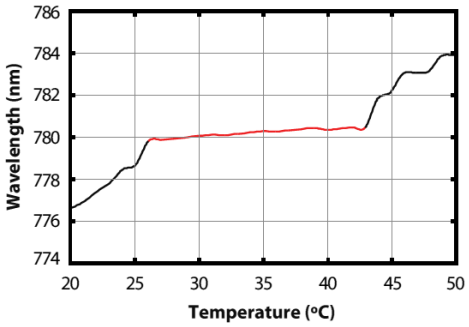
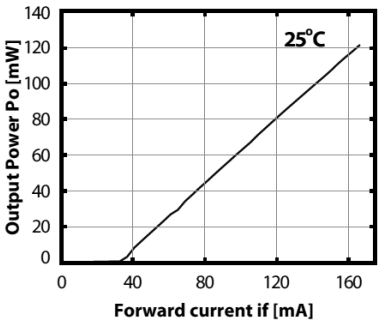
PERFORMANCE AND PACKAGE SPECIFICATION

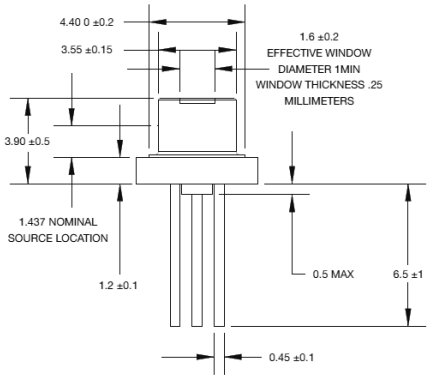
Stabilized Temperature Range



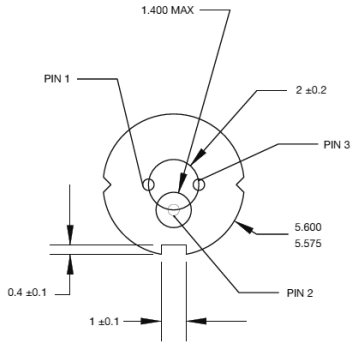
Output Power vs Forward Current (Typical)

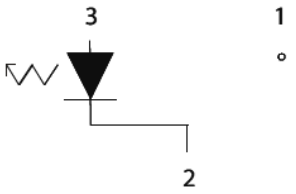


Side View



Bottom View





Pinout	
1	Not Connected
2	Case
3	LD Anode

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