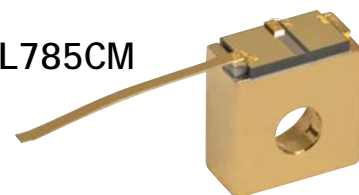


FPL785CM



Description

The FPL785CM 785 nm Fabry-Perot Laser Diode is based on quantum well epitaxial layer growth and a highly reliable ridge waveguide structure. This diode features high optical output power and slope efficiency. The FPL785CM C-Mount laser diode is ideal for incorporation into OEM solutions.

Specifications

Absolute Maximum Rating

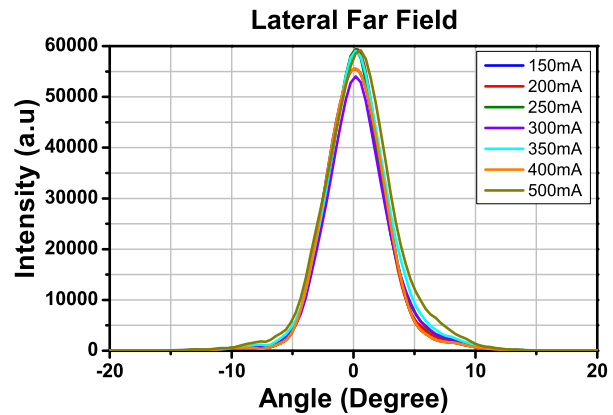
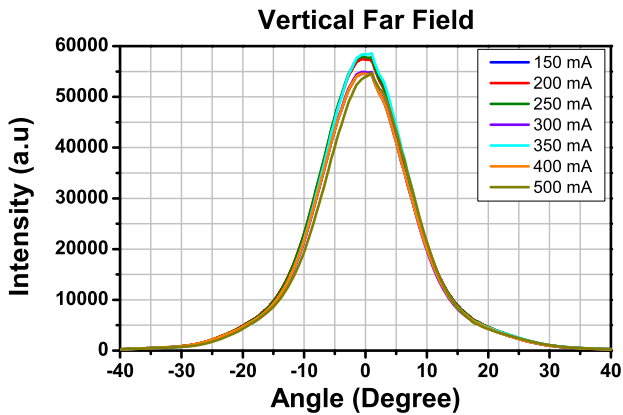
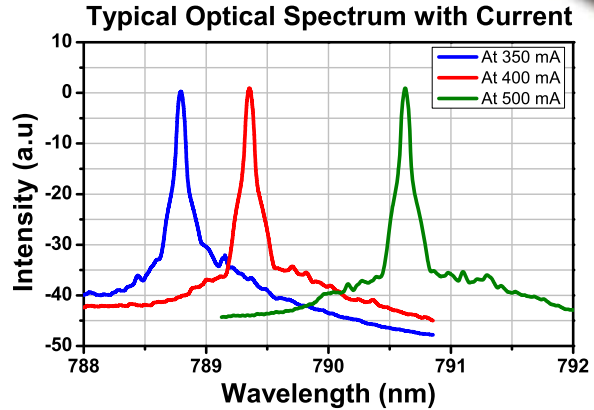
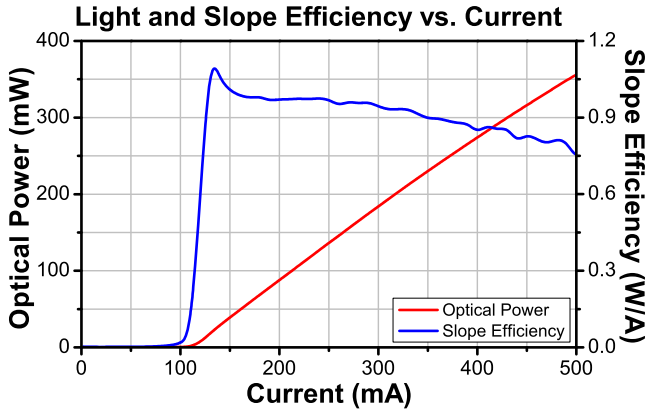
FPL785CM	
LD Reverse Voltage (Max)	2 V
Absolute Max Current	500 mA
Absolute Max Power	350 mW
Operating Temperature	20 to 50 °C
Storage Temperature	Non-condensing



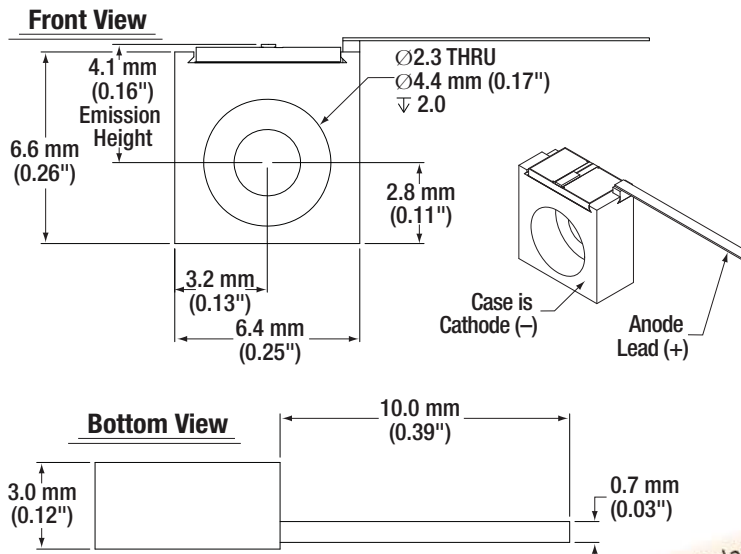
$T_{CHIP} = 25\text{ °C}$

FPL785CM				
	Symbol	Min	Typical	Max
Center Wavelength	λ_C	775 nm	785 nm	795 nm
Spectral Bandwidth (RMS)	$\Delta\lambda$	-	0.5 nm	2 nm
Output Power CW @ I_{CW}	P_{CW}	250 mW	300 mW	-
Operating Current CW	I_{CW}	-	400 mA	450 mA
Threshold Current	I_{TH}	-	90 mA	120 mA
Forward Voltage	V_F	-	2.0 V	2.8 V
Slope Efficiency	$\Delta P/\Delta I$		0.95 W/A	
Transverse Beam Divergence Angle (FWHM) [CW @ 400 mA]	θ_T	-	18°	22°
Lateral Beam Divergence Angle (FWHM) [CW @ 400 mA]	θ_L	-	7°	10°

Typical Performance Plots



Drawing



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 France: +33 (0) 970 444 844 | Scandinavia: +46-31-733-30-00 | Japan & Asia: +81-3-5979-8889 | China: +86 (0)21-60561122