

785 nm Fabry-Perot Laser Diode, 400 mW



LD785-SE400

Description

The LD785-SE400 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 LD785-SE400 (Ø9 mm), a TO-can package discrete laser diode, is a compact light source suited to many applications. TO-can packaged lasers are fully compatible with Thorlabs' entire line of Laser Diode and TEC Controllers as well as our Thorlabs' Laser Diode Mounts and Collimation Solutions.

Specifications

LD785-SE400				
LD Reverse Voltage (Max)	2 V			
Absolute Max Current	600 mA			
Absolute Max Power	430 mW			
Operating Temperature	0 to 40 °C			
Storage Temperature	-10 to 65 °C			
Pin Code	E			

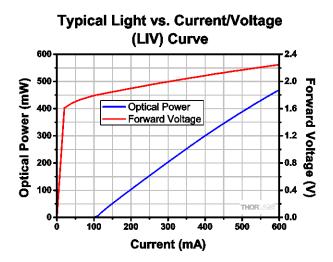


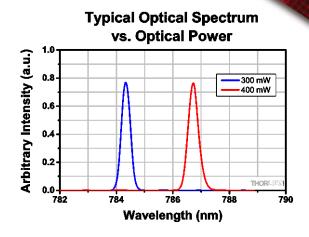
T_{CHIP} = 25 °C

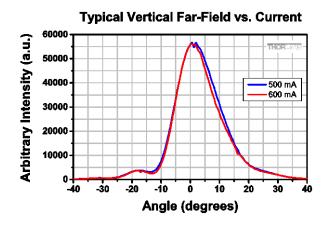
LD785-SE400					
	Symbol	Min	Typical	Max	
Center Wavelength	λ _C	775 nm	785 nm	795 nm	
Spectral Bandwidth (RMS)	Δλ	-	0.5 nm	2 nm	
Output Power CW @ I _{CW}	P _{CW}	400 mW	-	430 mW	
Operating Current CW	I _{cw}	-	550 mA	600 mA	
Threshold Current	I _{TH}	-	110 mA	140 mA	
Forward Voltage	V _F	-	2.0 V	2.8 V	
Slope Efficiency	ΔΡ/ΔΙ		0.85 W/A		
Transverse Beam Divergence Angle (FWHM)	θ_{T}	-	16°	20°	
Lateral Beam Divergence Angle (FWHM)	θ_{L}	-	7°	10°	

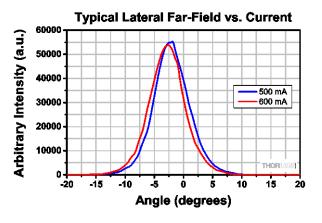


Typical Performance Plots



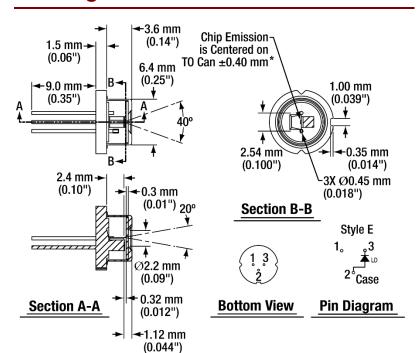






THORDARS

Drawing



*Note: Tighter tolerances are available at request with adjusted prices. Please contact <u>techsupport@thorlabs.com</u>.