

1064 nm Fabry-Perot Laser Diode, 450 mW

L1064H2



Description

The L1064H2 1064 nm Fabry-Perot single spatial mode 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 L1064H2 Ø9 mm TO-can package discrete laser diode is a compact light source suited to many applications.

Specifications

Absolute Maximum Ratings ^a				
LD Reverse Voltage (Max)	2 V			
Absolute Max Current	1200 mA			
Absolute Max Power	460 mW			
Operating Case Temperature	20 to 50 °C			
Storage Temperature	-10 to 65 °C			
Pin Code	Е			



a. Please note that exceeding the absolute maximum ratings above may cause damage to the device.

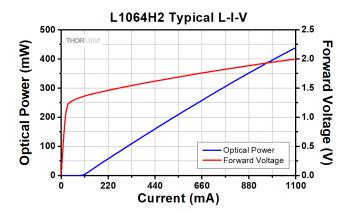
L1064H2ª				
	Symbol	Min	Typical	Max
Center Wavelength	λ_{C}	1054 nm	1064 nm	1074 nm
Spectral Bandwidth (RMS)	Δλ	-	2 nm	5 nm
Output Power CW @ I _{OP}	P_{CW}	-	450 mW	-
Threshold Current	I _{TH}	-	100 mA	130 mA
Operating Current CW	I _{OP}	-	1100 mA	1200 mA
Slope Efficiency	ΔΡ/ΔΙ	-	0.46 W/A	-
Forward Voltage	V_{F}	-	1.92 V	2.50 V
Vertical Beam Divergence Angle (FWHM) ^b	$\theta_{\sf V}$	-	13.5°	22.0°
Lateral Beam Divergence Angle (FWHM) ^b	θ_{L}	-	7.6°	13.0°

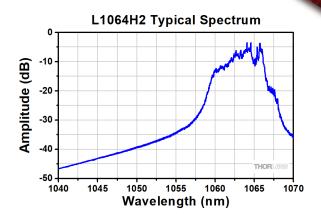
a. $T_{case} = 25^{\circ}C$

b. CW at 1000 mA



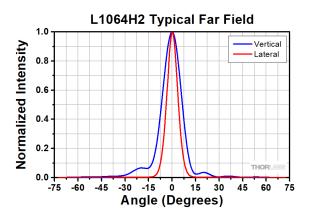
Typical Performance Plots





Typical L-I-V at 25 °C

Typical Optical Spectrum at I = 1000 mA



L1064H2 Typical Far Field Pattern at I = 1000 mA



Drawing

