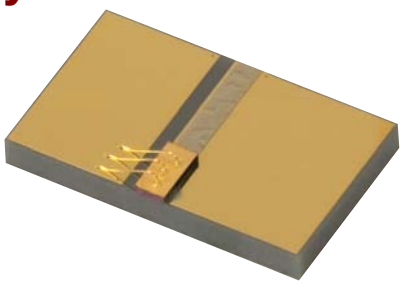
1625 nm Fabry-Perot Laser diode



FPL1054C

Description

The FPL1054C 1625 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 FPL1054C is a chip on submount measuring 3 mm x 5 mm and is ideal for incorporation into OEM solutions.

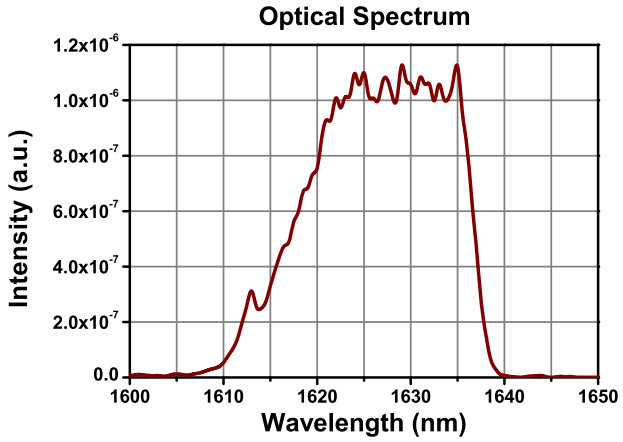
Specifications

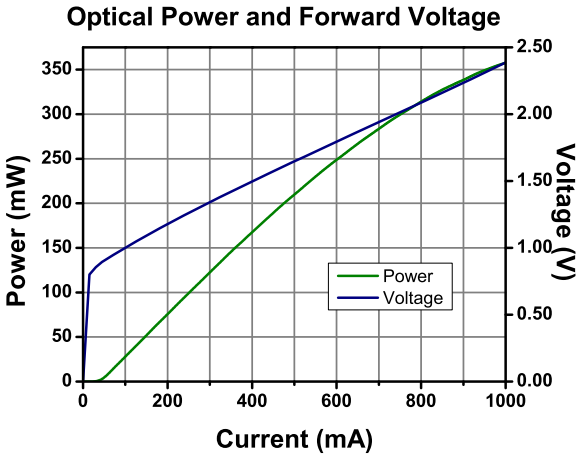
T_{CHIP} = 25 °C

FPL1054C				
	Symbol	**Min**	**Typical**	**Max**
Center Wavelength	λ_C	1605 nm	1625 nm	1645 nm
Spectral Bandwidth (RMS)	$\Delta\lambda$	-	7 nm	12 nm
Output Power Pulsed @ I_{PULSE}	P_{PULSED}	250 mW	-	-
Output Power CW @ I_{CW}	P_{CW}	130 mW	-	-
Operating Current Pulsed*	I_{PULSE}	-	750 mA	1000 mA
Operating Current CW	I_{CW}	-	400 mA	500 mA
Threshold Current	I_{TH}	-	45 mA	55 mA
Forward Voltage	V_F	-	2.0 V	3.0 V
Transverse Beam Divergence Angle (FWHM) [CW at 400 mA]	θ_T	-	28°	37°
Lateral Beam Divergence Angle (FWHM) [CW at 400 mA]	θ_L	-	15°	23°

*QCW (Current Pulse Width = 10 µs; Duty Cycle = 1%); T_{CHIP} = 25 °C

Performance Plots





Drawings