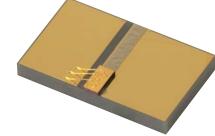


1550 nm Fabry-Perot Laser diode



Description

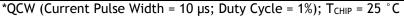
FPL1055C

The FPL1055C 1550 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 FPL1055C is a chip on submount measuring 3 mm x 5 mm and is ideal for incorporation into OEM solutions.

Specifications

 T_{CHIP} = 25 $^{\circ}C$

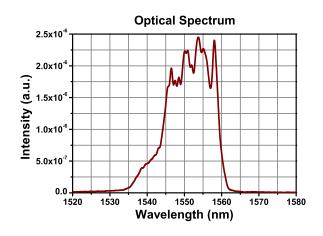
FPL1055C				
	Symbol	Min	Typical	Max
Center Wavelength	λ _C	1530 nm	1550 nm	1570 nm
Spectral Bandwidth (RMS)	Δλ	-	6 nm	10 nm
Output Power Pulsed @ I _{PULSE}	P _{PULSED}	275 mW	300 mW	-
Output Power CW @ Icw	P _{CW}	140 mW	-	-
Operating Current Pulsed*	I _{PULSE}	-	750 mA	1000 mA
Operating Current CW	I _{CW}	-	400 mA	500 mA
Threshold Current	I _{TH}	-	40 mA	50 mA
Forward Voltage	V_{F}	-	2.0 V	3.0 V
Transverse Beam Divergence Angle (FWHM) [CW at 400 mA]	θτ	-	28°	37°
Lateral Beam Divergence Angle (FWHM) [CW at 400 mA]	θι	-	15°	23°

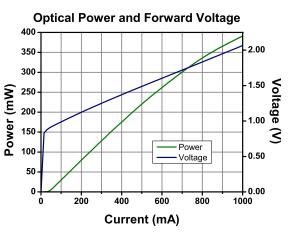




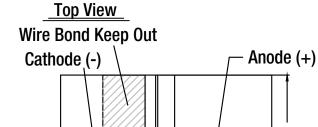
THORLABS

Performance Plots





Drawings



5.00 mm

