LASER DIODE FLX-1850-1000M-100

FLX-1850-1000M-100 is a multimode semi-conductor laser diode with 1000mW CW output power at 1850nm Available packages are C-Mount and TO-3 can. It is suitable for the use in various opto-electronic applications.

Key Features

- High Output Power
- High Efficiency
- Custom Packaging Available
- Custom Wavelengths Available

Specifications

Optical and Electrical Characteristics (T = 15°C, P = 1000mW):

Operating Parameters	Symbol	Min	Typ	Max	Unit
Optical Power	P_{out}	-	1000	-	mW
Wavelength	λ	1820	1850	1880	nm
Spectrum (FWHM)	$\Delta\lambda$	-	8.0	-	nm
Threshold Current	I_{th}	-	400	-	mA
Forward Current	I_f	-	5200	-	mA
Forward Voltage	V_f	-	1.3	-	V
Beam Divergence Parallel	$\Theta\|\|$	-	6	-	° (FWHM)
Beam Divergence Perpendicular	$\Theta\perp$	-	40	-	° (FWHM)
Polarization		-	TE	-	
Emitter Size		-	100	-	µm

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Packages

C-Mount

Features include:
- Designed for up to 4mm cavity length laser diodes
- Small Footprint with Screw Mounting
- Material - Copper (OFHC)
- Fast Axis Lensing Optional

TO-3 (without TEC)

Features include:
- Hermetically Sealed Windowed Package
- Mounting to Heatsink with Screws
- Internal Thermistor and Photodiode Optional
- Header Material - Copper
- Fast Axis Lensing Optional

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