

## LASER DIODE FLX-635-400M-100



**FLX-635-400M-100** is a multimode semiconductor laser diode with 400mW CW output power at 635nm. Available packages are B-Mount, C-Mount, Q-Mount, 9mm TO can, TO-3 can and HHL. 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 = 20°C, P = 400mW):

Operating Parameters	Symbol	Min	Typ	Max	Unit
Optical Power	$P_{out}$	-	400	-	mW
Wavelength	$\lambda$	632	635	638	nm
Spectrum (FWHM)	$\Delta\lambda$	-	1	-	nm
Threshold Current	$I_{th}$	-	550	-	mA
Forward Current	$I_f$	-	850	-	mA
Forward Voltage	$V_f$	-	2.1	-	V
Slope Efficiency	$\Delta P/\Delta I$	-	1.33	-	W/A
Beam Divergence Parallel	$\Theta_{  }$	-	7	-	° (FWHM)
Beam Divergence Perpendicular	$\Theta_{\perp}$	-	34	-	° (FWHM)
Polarization		-	TM	-	
Emitter Size		-	100	-	$\mu\text{m}$

## Packages

### B-Mount Package

Features include:

- Very Small Footprint
- Requires Soldering to Heatsink
- Material - Copper Tungsten (CuW)
- Fast Axis Lensing Optional



### C-Mount Package

Features include:

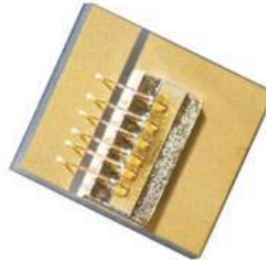
- Designed for up to 4mm cavity length laser diodes
- Small Footprint with Screw Mounting
- Material - Copper (OFHC)
- Fast Axis Lensing Optional



### Q-Mount Package

Features include:

- Very Small Footprint
- Requires Soldering to Heatsink
- Material - Copper Tungsten (CuW)
- Fast Axis Lensing Optional



### Standard 9mm Package

Features include:

- Industry Standard Package
- Hermetically Sealed Windowed Package
- Header Material - Copper
- Internal Photodiode Optional
- Isolated Package Optional
- Fast Axis Lensing Optional



### TO-3 Package

Features include:

- Hermetically Sealed Windowed Package
- Mounting to Heatsink with Screws
- Internal Peltier Cooler (TEC) Optional
- Internal Thermistor and Photodiode Optional
- Header Material - Copper
- Fast Axis Lensing Optional



### High Heat Load (HHL) Package

Features include:

- Hermetically Sealed Windowed Package
- Mounting to Heatsink with Screws
- Internal Peltier Cooler (TEC)
- Internal Thermistor and Photodiode
- Header Material - Copper
- Fast Axis Lensing Optional

