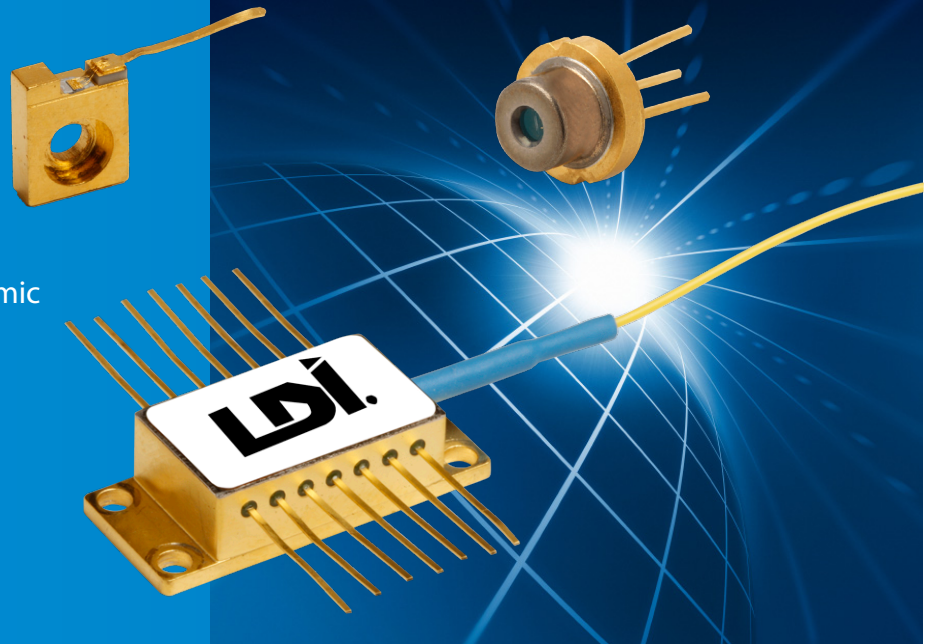


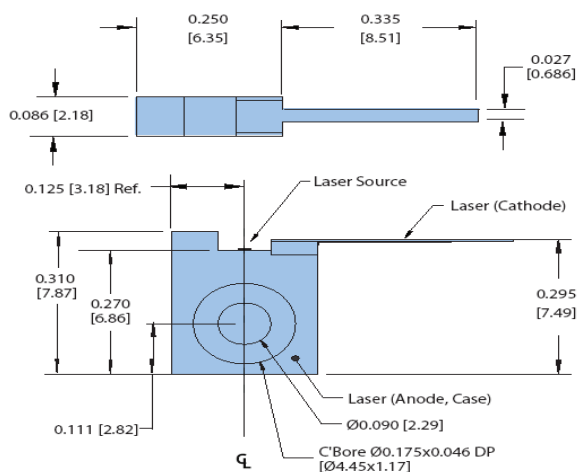
- Output power 300mW
- High reliability
- Narrow spectral width
- Applications:
 - Medical use in Photodynamic Therapy (PDT)
 - Medical Therapeutics
 - Imaging / Illumination
 - Process Control



The Laser Diode Inc. CWR 635 is a High Power multi-mode visible CW Laser (RoHS compliant) with a 100 um emitting area. The CWR 635 laser is an MOCVD grown laser structure and is available in a variety of packaging options that allow easy integration into your existing products

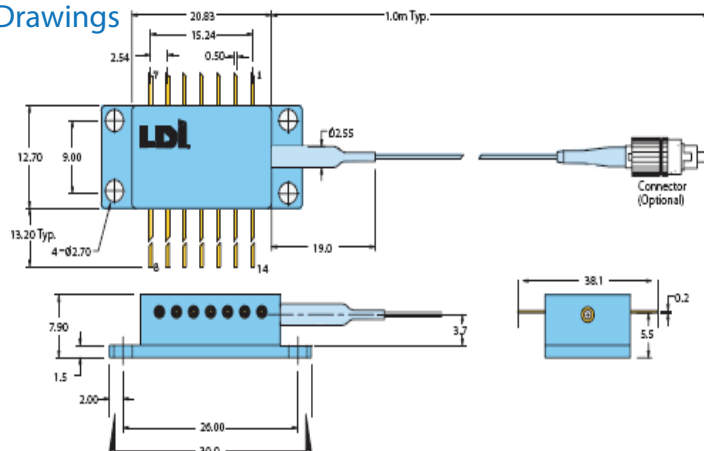
Parameters	Symbol	min	typ	max	unit
Spectral Width	$\Delta\lambda$		1	3	nm
Rise Time	T_r		1		ns
Beam Speed	FWHM		10 x 40		degrees
Storage Temperature	T_s	-40		+85	°C
Operating Temperature (Case)	T_o		18		°C
Power	P_o	300			mW
Power from Fiber (1)	P_{fiber}	150			mW
Forward Current	I_f		750		mA
Threshold Current	I_{th}		350		mA
Operating Voltage	V_{op}		2.25		V
Slope Efficiency	η		>0.75		W/A
Wavelength	λ		635		nm
Emitting Area			100		microns
Temperature Coefficient of Wavelength			0.2		nm/°C
Lead Soldering Temperature (C-Mount)			150 < 5sec		°C
Lead Soldering Temperature (9mm, BF)*			260 < 10sec		°C

C-Mount Package

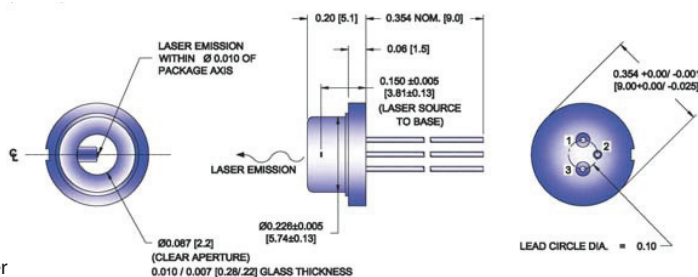


Butterfly Package

Package Drawings



9mm Package



Standard fiber length: 1 meter +/-0.1 meter

PINOUT

Description	PIN1	PIN2	PIN3
635nm	Laser Cathode (-)	Laser Anode (Case + Detector Cathode if used)	Detector Anode (+) if used

Ordering Information

When ordering, refer to the numbering diagram below.

CWR 635

→ Add Package Options

-90
-CM
-BF

Package Description

9.0mm
C-Mount
Butterfly (1)

(1) The butterfly package is offered with 105/125um multimode fiber (0.22NA)
Custom packages are available upon request

Products can be ordered directly from Laser Diode Inc. or its representatives.
For a complete listing of representatives, visit our website at
www.laserdiode.com

Safety:

Caution: Laser light emitted from any diode laser may be harmful to the human eye. Avoid looking directly into the diode laser aperture when the device is in operation.

Class 3B laser

Notice:

Laser Diode Inc. reserves the right to make changes to the products or information contained here without notice.
No liability is assumed as a result of their use or application.

ESD Caution:

Handle diode lasers with extreme care to prevent electrostatic discharge. Follow ESD precautions when handling devices.

Warranty:

Please refer to your product purchase agreement for complete details or check with your Laser Diode sales representative.