OSI LaserDiode, Inc.
An OSI Systems Company

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1550nm High Brightness Pulsed Laser Diodes

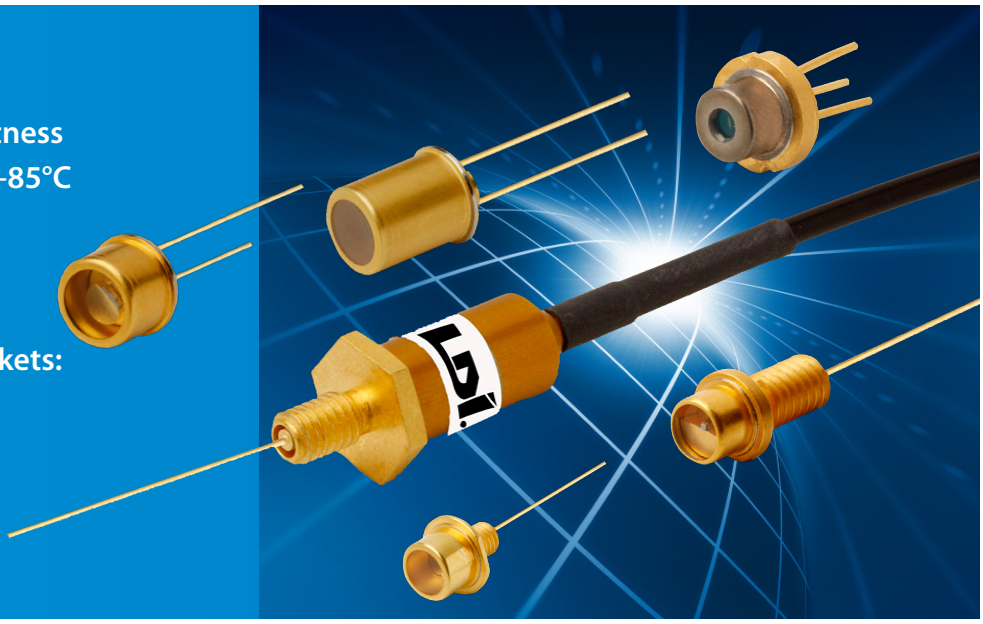
ISO 9001:2008 Certified

"Eye Safe"

Low Divergence / High Brightness
Stable Output from -40°C to +85°C
Hermetic Package
RoHS Compliant

Military and Commercial Markets:

- Rangefinding
- Hunting
- Targeting
- Surveying



OSI Laser Diode Inc. provides an extremely high brightness **CVLL 1550nm pulsed laser diode** capable of up to 75 Watts output power. The CVLL devices are well suited to most range finding applications requiring "eye safe" operation.

CVLL Series Specifications and Limits @ 25°C

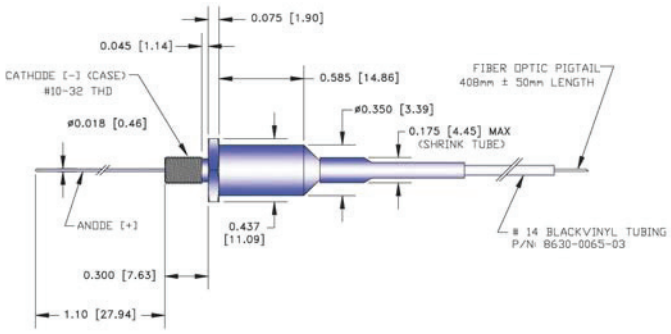
PARAMETERS	Symbol	Min	Typ	Max	Unit
Peak Wavelength	λ	1530	1550	1580	nm
Spectral Width	Δλ		15		nm
Temperature Coefficient of Wavelength	Δλ/ΔT		0.55		nm/°C
Beam Divergence	FWHM		10 x 24		Degrees
Operating Temperature	T_{op}	-40		85	°C
Storage Temperature	T_{stg}	-40		85	°C
Pulse Width	PW		150		nS
Duty Factor	DF		0.07		%

CVLL Series Test Conditions: Pulse width = 150nS, Rep. Rate = 5kHz, 25°C

PARAMETERS	Symbol	CVLL 95	CVLL 2S95	CVLL 3S95	CVLL 350	CVLL 2S350	CVLL 3S350	Unit
Peak Power (min)	P_o	10	20	30	25	50	75	Watts
Peak Power (Fiber)	P_f	5	10	15	12	25	37	Watts
Peak Forward Current	I_f	25	25	25	70	70	70	Amps
Threshold Current (typ)	I_{th}	1	1	1	2	2	2	Amps
Number of Diodes		1	2	3	1	2	3	
Emitting Area (typ)		95 x 1	95 x 180	95 x 360	350 x 1	350 x 180	350 x 350	um
Fiber (core size)		100	200	400	400	400	600	um

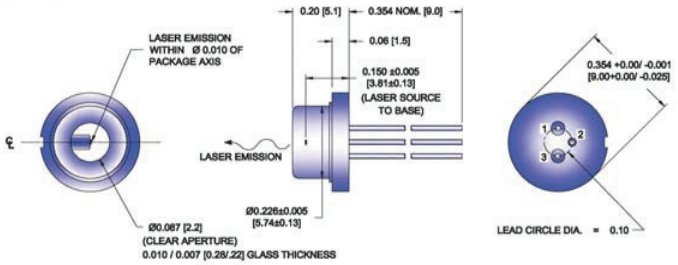
Package Drawings

TO5F (Non-Hermetic) Package

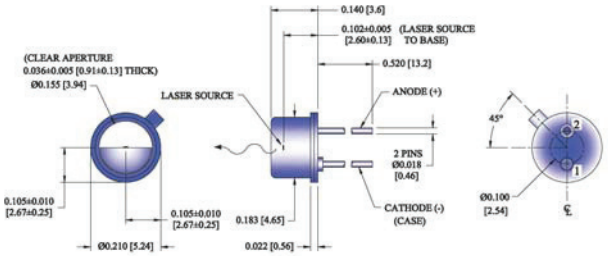


9mm Package

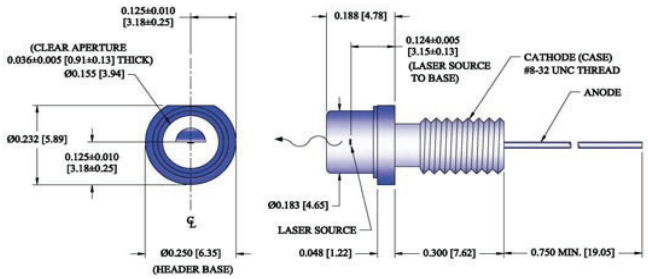
PINOUT		
PIN 1	PIN 2 (Case)	PIN 3
Laser Anode (+)	Laser Cathode (-)	No Connection



TO18T Package



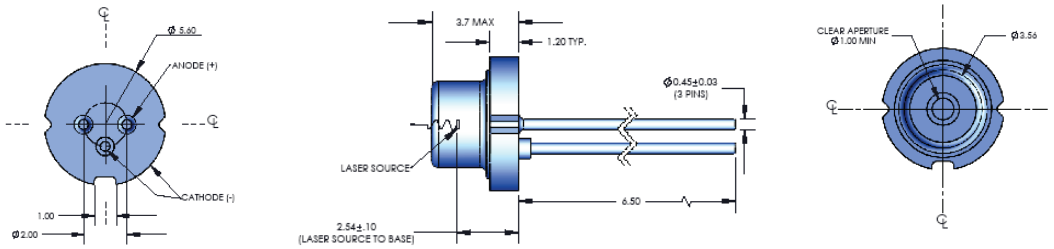
TO18C Package



Note: All devices are supplied case (-) unless otherwise specified.

5.6 Package

Note: Package Option Available for Single Chip Only



Products can be ordered directly from OSI 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**

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 OSI Laser Diode sales representative.

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