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1550nm High Brightness Pulsed Laser Diodes

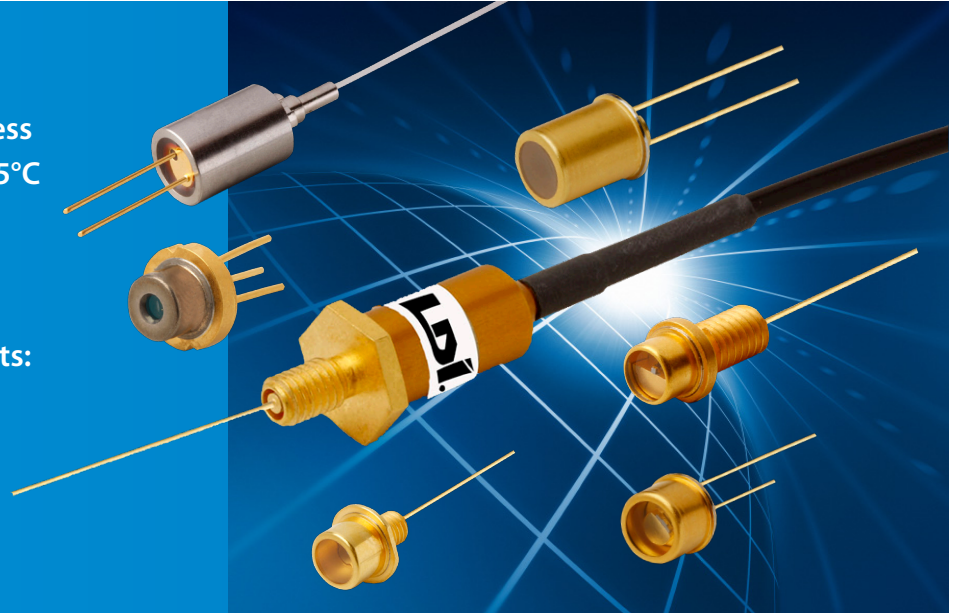
ISO 9001:2008 Certified

"Eye Safe"

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

Military and Commercial Markets:

- Ranging
- 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

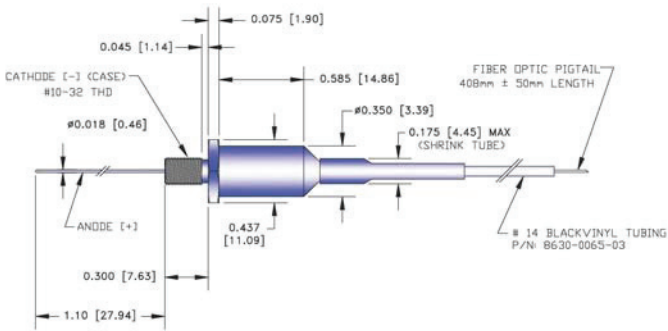
PARAMETERS	Symbol	Min	Typ	Max	Unit
Peak Wavelength	λ	1530	1550	1580	nm
Spectral Width	$\Delta\lambda$		15		nm
Temperature Coefficient of Wavelength	$\Delta\lambda/\Delta T$		0.55		nm/°C
Beam Divergence	FWHM		10 x 24		Degrees
Operating Temperature	T _{op}	-40		85	°C
Storage Temperature	T _{stg}	-40		85	°C
Pulse Width	PW		150		ns
Duty Factor	DF		0.07		%
Rise Time	T _f		1		ns
Fall Time	T _f		1		ns

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

PARAMETERS	Symbol	CVLL 95	CVLL 2S95	CVLL 3S95	CVLL 4S95	CVLL 5S95	CVLL 180	CVLL 2S180	CVLL 3S180	CVLL 4S180	CVLL 5S180	CVLL350	CVLL 2S350	CVLL 3S350	CVLL 4S350	CVLL 5S350	Unit
Peak Power (min)	P _o	10	20	30	40	50	19	38	57	76	95	25	50	75	100	125	Watts
Peak Power (Fiber)	P _f	5	10	15	20	25	9	19	28	38	47	12	25	37	50	62	Watts
Peak Forward Current	I _f	30	30	30	30	30	57	57	57	57	57	75	75	75	75	75	Amps
Threshold Current (typ)	I _{th}	1	1	1	1	1	1.5	1.5	1.5	1.5	1.5	2	2	2	2	2	Amps
Number of Diodes		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	
Emitting Area (typ)		95 x 1	95 x 180	95 x 360	95 x 540	95 x 720	180 x 1	180 x 180	180 x 360	180 x 540	180 x 720	350 x 1	350 x 180	350 x 360	350 x 540	350 x 720	um
Fiber (core size)		100	200	400	600	1000	200	300	400	600	1000	400	400	400	600	1000	um

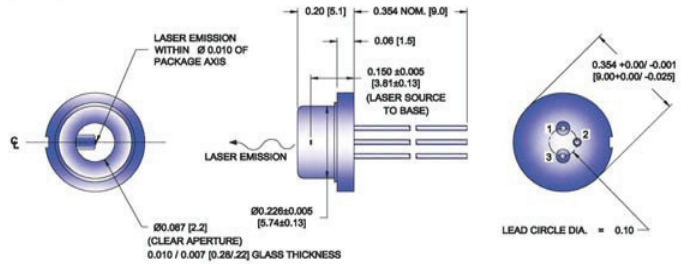
Package Drawings

TO5F (Non-Hermetic) Package

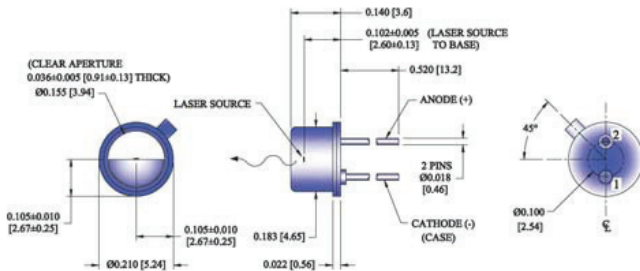


9mm Package

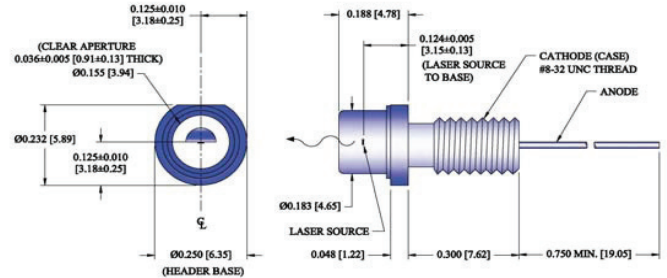
PINOUT		
PIN 1	PIN 2 (Case)	PIN 3
Laser Anode (+)	Laser Cathode (-)	No Connection



TO18T Package

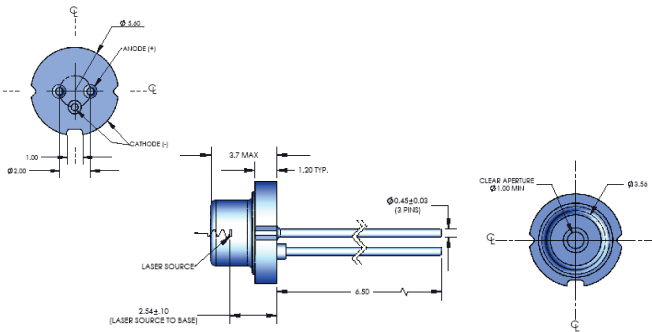


TO18C Package

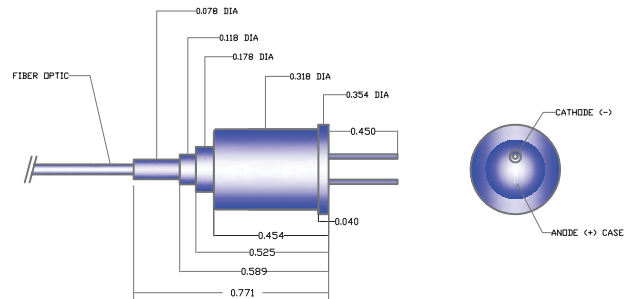


Note: All devices are supplied case (-) unless otherwise specified.

5.6 Package



TO18F Package



Note: Package Option Available for Single Chip Only

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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:

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.

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.