

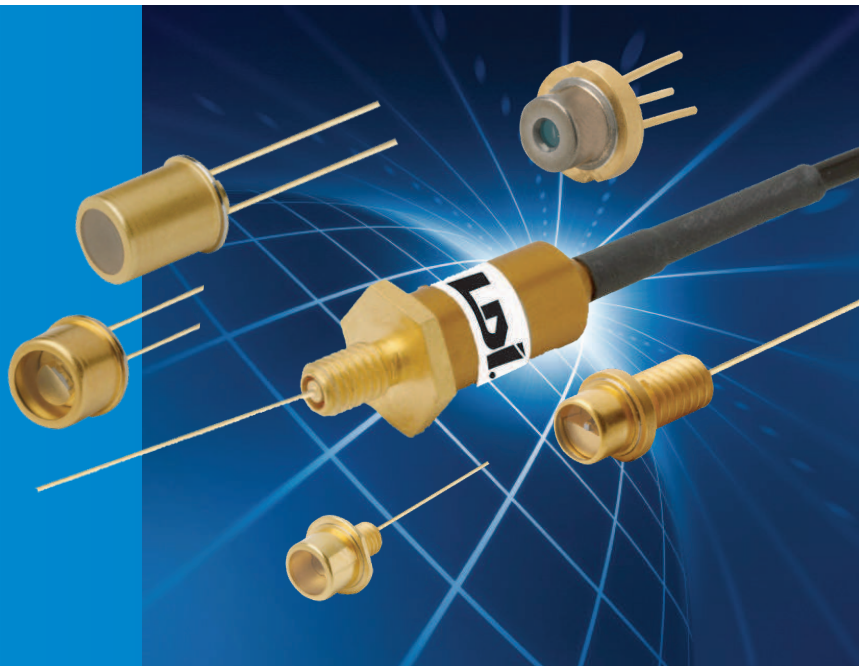
High Power Monolithic Stack Pulsed Laser Diodes

ISO 9001:2008 Certified

High Reliability/High Efficiency
Stable Output from -40°C to +85°C
Single & Stacked Devices up to 375W
Fiber Coupled Devices up to 188W
Custom Packaging Available

Applications:

- Rangefinding
- Ceilometers
- Weapons Simulation
- Surveying Equipment
- Homeland Security
- LIDAR
- Adaptive Cruise Control



CVN Series

Drive Conditions: 100ns 30Amps 1kHz @ 25°C

PARAMETERS	Symbol	Min	Typ	Max	Units
Peak Wavelength	λ	895	905	915	nm
Spectral Width	$\Delta\lambda$		8		nm
Rise Time	T_r		1		ns
Beam Spread			9 x 25		Degrees
Duty Cycle	DC			0.1	Percent
Operating Temperature	T_{op}	-40		85	°C
Storage Temperature	T_{stg}	-40		85	°C

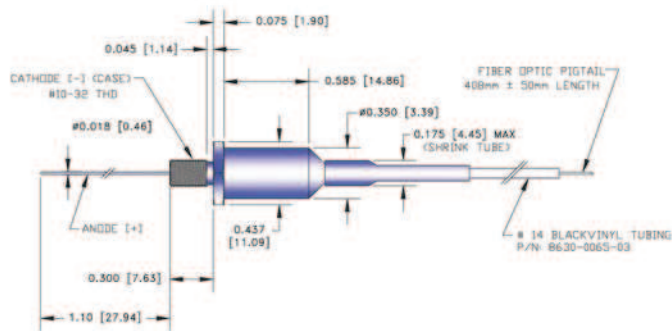
PARAMETERS	Symbol	CVN 63	CVN 2S63	CVN 3S63	CVN 4S63	CVN 5S63	Units
Threshold Current (typ)	I_{th}	0.8	0.8	0.8	0.8	0.8	A
Peak Forward Current	I_f	30	30	30	30	30	A
Peak Power 25°C (typ)	P_o	75	150	225	300	375	W
Peak Power 85°C (typ)	P_o	60	120	180	240	300	W
Emitting Area		200 x 10	200 x 120	200 x 240	200 x 360	200 x 480	Microns
Fiber Core Diameter*		200	300	300	400	600	Microns
Power from Fiber (typ)	P_f	38	75	112	150	188	W

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

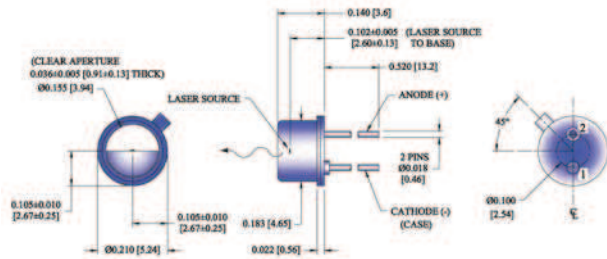
*Note: Other fiber sizes are available

Package Drawings

T05F (Non-Hermetic) Package



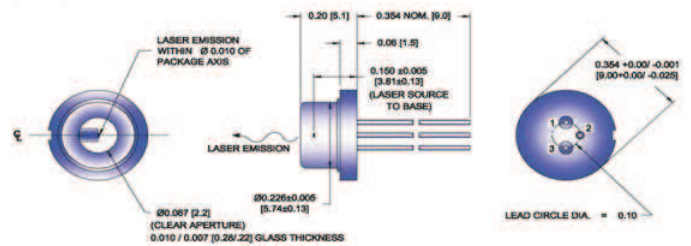
T018T Package



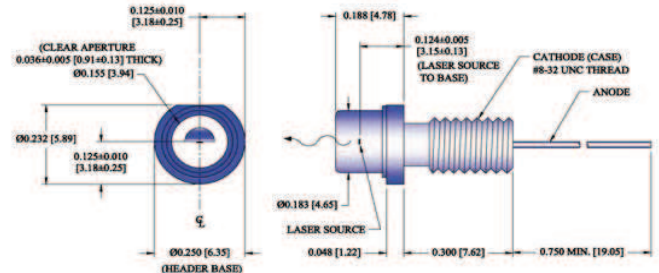
Other package options available. Dimensions: inches [mm]

9 mm Package

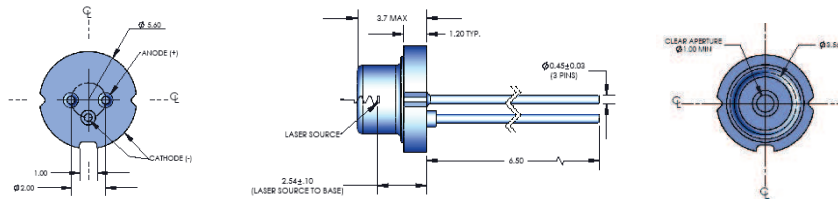
PINOUT		
PIN 1	PIN 2 (Case)	PIN 3
Laser Anode (+)	Laser Cathode (-)	No Connection



T018C Package



5.6 mm Package



Available with Single Chip Only

Ordering Information

When ordering, refer to the numbering diagram below.

CVN

XS

63-

XXX

#Stacked

2
3
4
5

Package

TO5C = Coax
 TO5T = Twin
 TO5F = Fibered
 TO18C = Coax
 TO18T = Twin
 90 = 9mm
 56 = 5.6mm

Note: Fiber length is 1 meter +/- 0.1 meter unless otherwise noted.
Output is typically 50% of rated power for fibered products.

Products can be ordered directly from OSI Laser Diode Inc. or its representatives.

For a complete listing of representatives, visit our website at www.azleg.gov

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:

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:

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.