OS LaserDiode, Inc.

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www.laserdiode.com

ISO-9001:2015 Certified

High Reliability/High Efficiency Stable Output from -40°C to +85°C Single & Stacked Devices up to 450W Fiber Coupled Devices up to 225W 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	Тур	Мах	Units
Peak Wavelength	λ	893	903	913	nm
Spectral Width (FWHM)	Δλ		8		nm
Rise Time	Tr		1		ns
Beam Spread (FWHM)			8 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 2563	CVN 3S63	CVN 4563	CVN 5563	Units
Threshold Current (typ)	lth	0.8	0.8	0.8	0.8	0.8	А
Peak Forward Current	۱ _f	30	30	30	30	30	А
Peak Power 25°C (min/ typ)	Po	75/87	150/ 175	225/ 262	300/ 350	375/437	W
Peak Power 85°C (min/ typ)	Po	65/77	129/ 154	193/230	257/307	321/383	W
Emitting Area		220 x 10	220 x 120	220 x 240	220 x 360	220 x 480	Microns
Fiber Core Diameter*		200	300	300	400	600	Microns
Power from Fiber (typ)	P _f	45	90	135	180	225	W

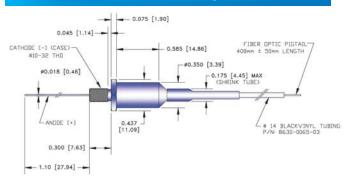
Notes: All devices supplied case (-) unless otherwise specified. *Note: Other fiber sizes are available

High Power Monolithic Stack Pulsed Laser Diodes

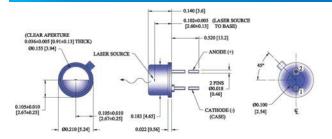


Package Drawings

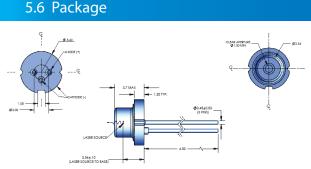




TO18T Package



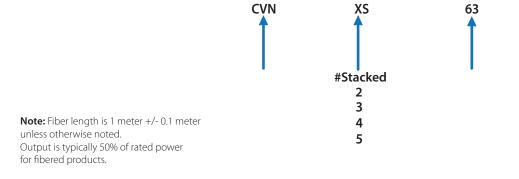
Other package options available. Dimensions: inches [mm]



Available with Single Chip Only

Ordering Information

When ordering, refer to the numbering diagram below.



ESD Caution:

Handle diode lasers with extreme care to

precautions when handling devices.

prevent electrostatic discharge. Follow ESD

Safety:

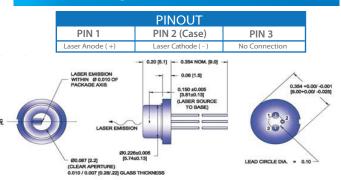
Caution: Laser light emitted from any diode laser may be harmful to the human eye. Avoid looking directly into the diode laser aperture when the device is in operation.

Class 3B laser

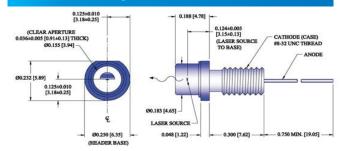
Notice:

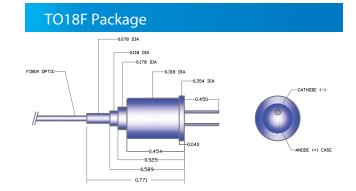
OSI Laser Diode Inc. reserves the right to make changes to the products or information contained herein without notice. No liability is assumed as a result of their use or application.

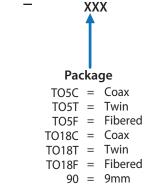
9 mm Package



TO18C Package







Warranty:

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