OSI LaserDiode, Inc.

An OSI Systems Company

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www.laserdiode.com

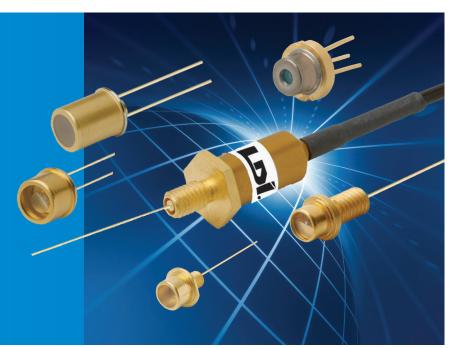
High Power Monolithic Stack Pulsed Laser Diodes

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

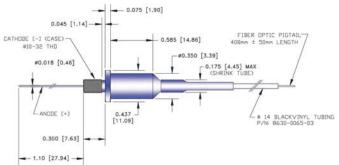
PARAMETERS	Symbol	Min	Тур	Max	Units
Peak Wavelength	λ	895	905	915	nm
Spectral Width	Δλ		8		nm
Rise Time	Tr		1		ns
Beam Spread			9 x 25		Degrees
Duty Cycle	DC			0.1	Percent
Operating Temperature	T _{op}	-40		85	°C
Storage Temperature	T _{stg}	-40		85	°C

PARAMETERS	Symbol	CVN 63	CVN 2S63	CVN 3S63	CVN 4S63	CVN 5S63	Units
Threshold Current (typ)	Ith	0.8	0.8	0.8	0.8	0.8	Α
Peak Forward Current	I _f	30	30	30	30	30	А
Peak Power 25°C (typ)	Po	75	150	225	300	375	W
Peak Power 85°C (typ)	Po	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

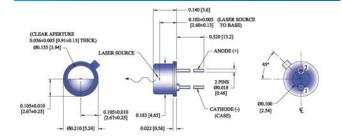
Notes: All devices supplied case (-) unless otherwise specified.

^{*}Note: Other fiber sizes are available

TO5F (Non-Hermetic) Package

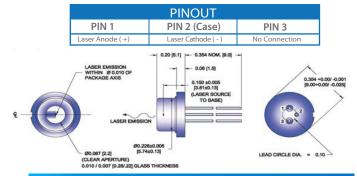


TO18T Package

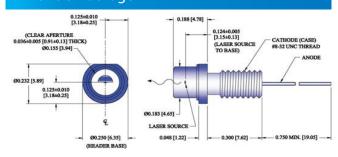


Other package options available. Dimensions: inches [mm]

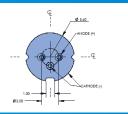
9 mm Package

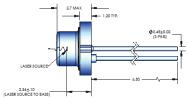


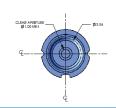
TO18C Package



5.6 mm Package







Available with Single Chip Only

Ordering Information

Note: Fiber length is 1 meter +/- 0.1

Output is typically 50% of rated power

meter unless otherwise noted.

for fibered products.

When ordering, refer to the numbering diagram below.

CVN XS #Stacked 2 3 4 5

63-

XXX **Package** TO5C = Coax

TO5T = TwinTO5F = Fibered

TO18C = Coax

TO18T = Twin90 = 9mm

56 = 5.6mm

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

Handle diode lasers with extreme care to

precautions when handling devices.

prevent electrostatic discharge. Follow ESD

ESD Caution:

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

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.

Warranty:

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