OSI LaserDiode, Inc.

An OSI Systems Company

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www.laserdiode.com

1550nm Multi-Junction Pulsed Laser Diodes

ISO 9001:2008 Certified

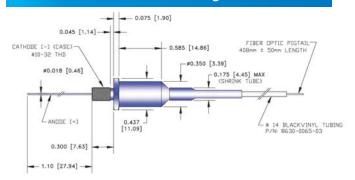


CVLM Series Specifications and Limits @ 25°C										
PARAMETERS		Symbol	Min	Тур	Max	Units				
Peak Wavelength		λ	1530	1550	1570	nm				
Spectral Width	90	Δλ		20		nm				
Spectral Width	350			12		nm				
Temperature Coefficient	Δλ/ΔΤ		0.4		nm/°C					
Beam Spread		FWHM		12 x 37		degrees				
Operating Temperature		Тор	-40		85	°C				
Storage Temperature		Tstg	-40		85	°C				
Pulse Width		Pw			150	ns				

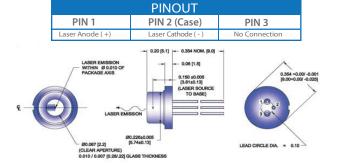
CVLM Series Test Conditions: Pulse width = 150ns, Rep. Rate = 5kHz, 25°C												
PARAMETERS	Symbol	CVLM350	CVLM2S350	CVLM3S350	CVLM090	CVLM2S090	CVLM3S090	Units				
Peak Power (min)	Po	30	55	75	9	16	22	Watts				
Peak Power (Fiber) ¹	Pf	15	27	37	4.5	8	11	Watts				
Peak Forward Current	lf	25	25	25	6.5	6.5	6.5	Amps				
Threshold Current (typ)	Ith	2.5	2.5	2.5	0.5	0.5	0.5	Amps				
Number of Diodes		1	2	3	1	2	3					
Emitting Area (typ)		10 x 350	120 x 350	240 x 350	10 x 90	120 x 90	240 x 90	Microns				
Fiber (core size)		400	400	400	400	200	300	Microns				
Duty Factor ²	DF	0.07	0.07	0.07	0.07	0.07	0.07	%				

Note: All devices are supplied case (-) unless otherwise specified. 1 Fiber: 400 micron 0.37NA Hard Clad Silica. 2 Heat sinking required.

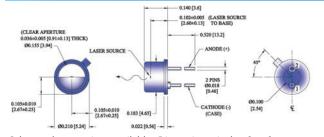
TO5F (Non-Hermetic) Package



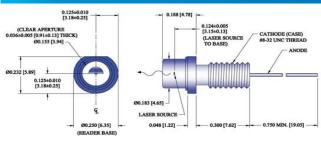
9 mm Package



TO18T Package

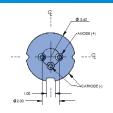


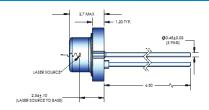
TO18TC Package

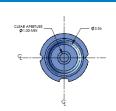


Other package options available. Dimensions: inches [mm]

5.6 Package





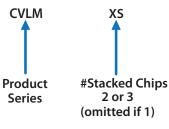


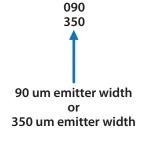
Available with Single Chip Only

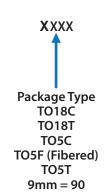
Ordering Information

When ordering, refer to the numbering diagram below.

Note: Not all options are available for all packages. Other power options are available. Fiber pigtailed versions of all lasers are available. Fiber length is 1 meter +/- 0.1 meter unless otherwise noted. Output is typically 50% of rated power on fibered devices.







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

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.

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.

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.