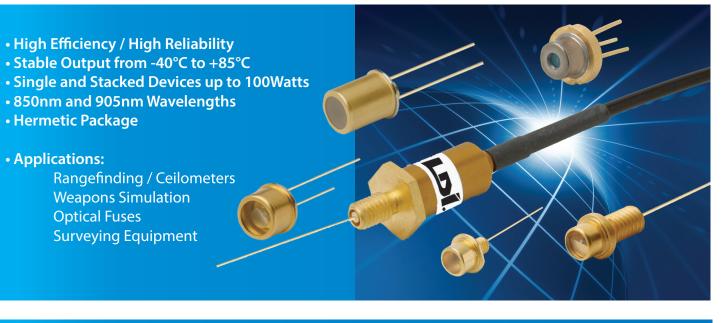
OS LaserDiode, Inc.

4 Olsen Avenue, Edison, NJ 08820 USA phone: (732) 549-9001 • fax: (732) 906-1559

www.laserdiode.com

High Power Pulsed Laser Diodes

ISO 9001:2008 Certified



CVD Series Characteristics @ 25°C

Parameters	Symbol	Min	Тур	Max	Units
Peak Wavelength	λ				nm
CVD 60 / 160 Series		895	905	915	nm
CVD 90 / 190 Series		840	850	860	nm
Spectral Width	Δλ		5.0	12	nm
Rise Time - Lasers	Τr		1		ns
Pulse Width = 50% pts	T _{pw}		100	200	ns
Beam Spread	FWHM		10 x35		degrees
Operating Temperature	T _{op}	-40		85	°C
Storage Temperature	T _{stg}	-55		85	°C

CVD 905nm Series Test Conditions: 100ns, 1 kHz, 25°C

Parameters	CVD 40	CVD 46	CVD 60	CVD 62	CVD 65	CVD 68	CVD 163	CVD 167	Units
Peak Power	2	3	4	8	13	22	35	100	Watts
Number of Diodes	1	1	1	1	1	1	3	5	
Emitting Area Typical	40 x 1	62 x 1	76 x 1	152 x 1	254 x 1	381 x 1	254 x 203	381 x 406	um
Peak If	2.6	4	5	10	15	25	15	25	Amps
Duty Factor (max)	0.1	0.1	0.1	0.1	0.1	0.1	0.08	0.04	%

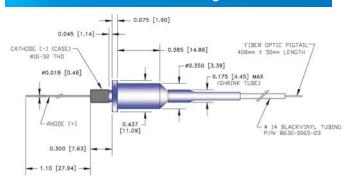
CVD 850nm Test Conditions: 100ns, 1 kHz, 25°C

Parameters	CVD 90	CVD 93	CVD 95	CVD 97	CVD 193	CVD 195	CVD 197	Units
Peak Power	5	10	15	25	40	60	100	Watts
Number of Diodes	1	1	1	1	3	3	5	
Emitting Area Typical	76 x 1	152 x 1	254 x 1	381 x 1	254 x 203	381 x 203	381 x 406	um
Peak If	7	14	20	30	20	30	30	Amps
Duty Factor (max)	0.1	0.1	0.1	0.1	0.08	0.04	0.04	%

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

Package Drawings

TO5F (Non-Hermetic) Package



TO18T Package

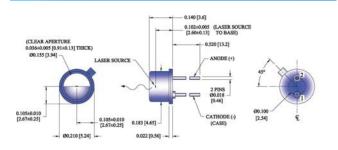
5.6mm Package

CLEAR APERTUR

Note: Available with Single Chip Only

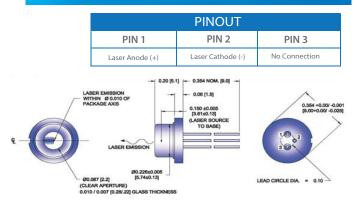
LASER SOUR

2.54±.10 (LASER SOURCE TO BASE

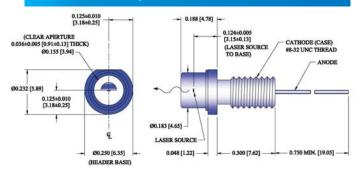


- 1.20 TY

9 mm Package

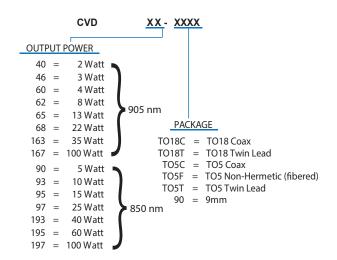


TO18C Package



Ordering Information

When ordering, refer to the information below.



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

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 for fibered products. Notice:

Other package options available. Dimensions: inches [mm]

Safety:

Ø 5.60

Ø0.45±0.03 (3 PINS)

> 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**

ESD Caution:

Warranty:

Handle diode lasers with extreme care to prevent electrostatic discharge. agreement for complete details or Follow ESD precautions when handling check with your OSI Laser Diode sales devices. representative.

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.