

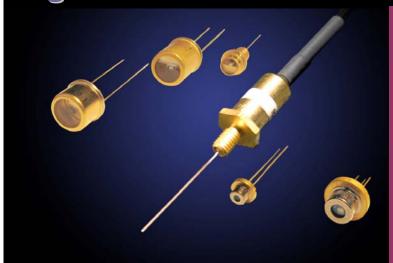
M/A-Com Technology Solutions 4 Olsen Avenue Edison, NJ 08820 USA Voice: (732) 549-9001 Fax: (732) 549-1559

Internet: www.laserdiode.com
Email: sales@laserdiode.com

Laser Diode Inco



High Power Pulsed Laser Diodes



High Efficiency / High Reliability
Stable output from -40°C to +85°C
Single and stacked devices up to
140Watts

850nm and 905nm wavelengths
Hermetic package

Applications:

- > Rangefinding / Ceilometers
- Weapons simulation
- Optical fuses
- > Surveying equipment

CVD Series Characteristics @ 25°C								
Parameter	Symbol	Min	Тур	Max	Unit			
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	Tr		1		ns			
Pulse Width = 50% pts	T_pw		100	200	ns			
Beam Spread	FWHM		10 x 35		degrees			
Storage Temperature	T _s	-55		+85	°C			
Operating Temperature	T _o	-40		+85	°C			

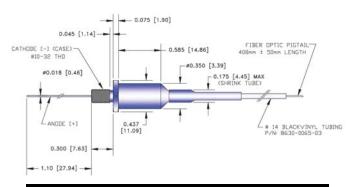
CVD 905nm Series Test Conditions: 100ns, 1Khz, 25°C								
Parameters	CVD 46	CVD 60	CVD 62	CVD 65	CVD 68	CVD 163	CVD 167	Units
Peak Power	3	4	8	13	22	35	100	Watts
Number of Diodes	1	1	1	1	1	3	5	
Emitting Area Typical	62 x 2	76 x 2	152 x 2	254 x 2	381 x 2	254 x 203	381 x 406	um
Peak If	4	5	10	15	25	15	25	Amps
Duty Factor (max) ¹	0.1	0.1	0.1	0.1	0.1	0.08	0.04	%

CVD 850nm Series Test Conditions: 100ns, 1Khz, 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 2	152 x 2	254 x 2	381 x 2	254 x 203	381 x 203	381 x 406	um	
Peak If	7	14	20	30	20	30	30	Amps	
Duty Factor (max) ¹	0.1	0.1	0.1	0.1	0.08	0.04	0.04	%	

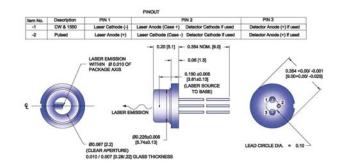
Note: 1 Heat sinking required

Package Drawings

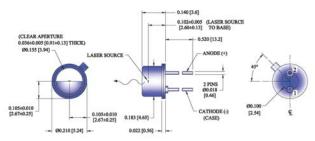
TO5F (Non-Hermetic) Package



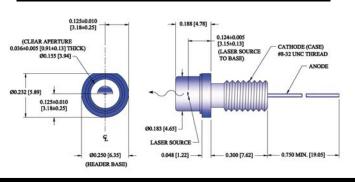
9mm Package



T018T Package



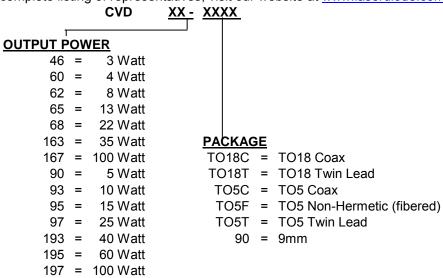
T018C Package



Other package options available. Dimensions: inches [mm]

Ordering Information

Products can be ordered directly from Laser Diode Incorporated or its representatives. When ordering, refer to the information below. 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. Output is typically 50% of rated power.

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

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 Laser Diode sales representative.

Notice:

LDI 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.