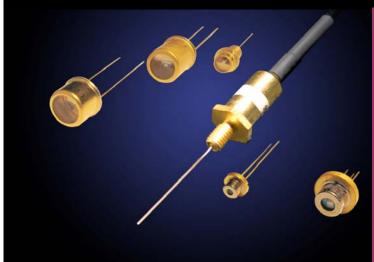


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# 1550nm Pulsed Laser Diodes



## "Eye Safe"

**High Efficiency** 

Stable output from -40°C to +85°C

Single and stacked devices up to 40Watts

Hermetic package

**RoHS Compliant** 

## **Applications:**

- Rangefinding
- Surveying equipment
- Friend or foe identification

## CVL Series Characteristics @ 25°C

Parameter	Symbol	Min	Тур	Max	Unit
Peak Wavelength	λ	1535	1550	1565	nm
Spectral Width	Δλ		12		nm
Temperature Coefficient of Wavelength	Δλ/ΔΤ		0.55		nm/°C
Beam Spread	FWHM		15 x 50		degrees
Operating Temperature	$T_o$	-40		+85	°C
Pulse Width	Pw			150	ns

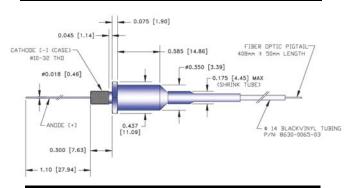
Parameters	Symbol	CVL57	CVL2S57	<b>CVL3S57</b>	CVL4S57	Units
Peak Power (min)	$P_{o}$	10	20	30	40	Watts
Peak Power (Fiber)*	$P_f$	4	8	12	16	Watts
Peak Forward Current	$I_f$	25	25	25	25	Amps
Threshold Current (typ)	$I_th$	1.6	1.6	1.6	1.6	Amps
Number of Diodes		1	2	3	4	
Emitting Area (typ)		350 x 2	350 x 110	350 x 220	350 x 330	Microns
Duty Factor**	DF	0.07	0.07	0.07	0.07	%

 $\textbf{Note:} \ \ \mathsf{Devices} \ \ \mathsf{are} \ \ \mathsf{supplied} \ \ \mathsf{case} \ \ \mathsf{negative} \ \ \mathsf{unless} \ \ \mathsf{otherwise} \ \ \mathsf{specified}.$ 

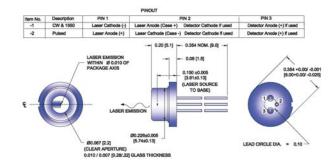
<sup>\*</sup> Fiber: 400 micron 0.37NA Hard Clad Silica

<sup>\*\*</sup>Heat sinking required

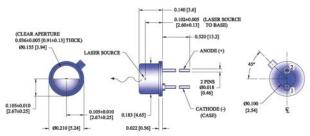
## TO5F (Non-Hermetic) Package



### 9mm Package

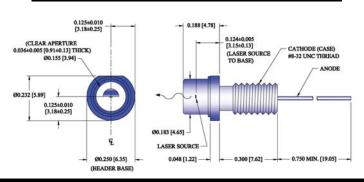


# TO18T Package



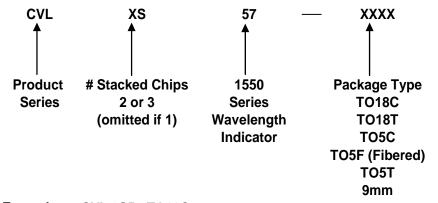
Other package options available. Dimensions: inches [mm]

## TO18C Package



## **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 <a href="https://www.laserdiode.com">www.laserdiode.com</a>



Example: CVL 2S57-TO18C

Pulsed Laser 20W 1550 +/-15nm, TO18C Package

**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.