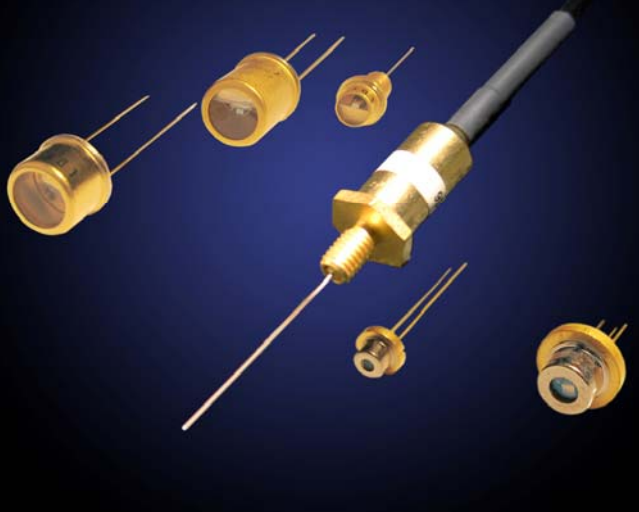


# 1550nm Pulsed Laser Diodes



**"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	Typ	Max	Unit
Peak Wavelength	$\lambda$	1535	1550	1565	nm
Spectral Width	$\Delta\lambda$		12		nm
Temperature Coefficient of Wavelength	$\Delta\lambda/\Delta T$		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	CVL3S57	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	%

**Note:** Devices are supplied case negative unless otherwise specified.

\* Fiber: 400 micron 0.37NA Hard Clad Silica

\*\*Heat sinking required

## Package Drawings

