

## CVN 5S63E-TO18T 905nm EXTENDED DUTY OPERATION

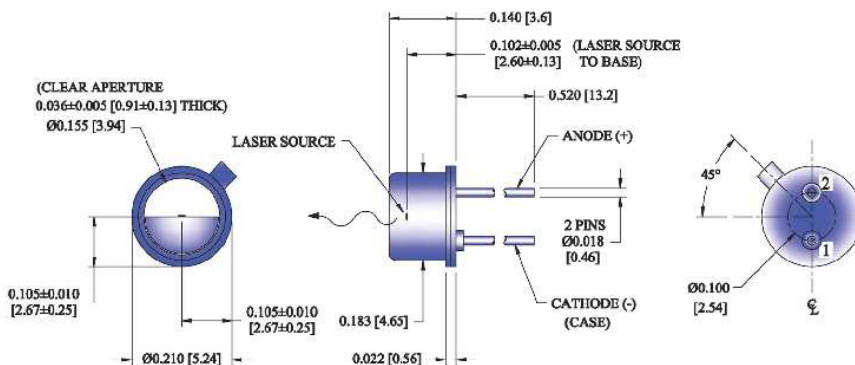
The CVN 5S63E-TO18T is a 5 element stacked multi-junction laser diode module operating at 905nm. The device is characterized under short pulse ( $\leq 10\text{nS}$ ) conditions allowing higher peak optical power ratings. The laser stack is packaged in a twin lead TO18 hermetically sealed format. This product is RoHS compliant.



### CVN 5S 63 EXTENDED DRIVE CHARACTERISTICS @ 25° C

Parameter	Symbol	Min	Typ	Max	Unit
Peak Wavelength	$\lambda$	895	905	915	nm
Spectral Width	$\lambda$		8		nm
Rise Time	$T_r$		1		nS
Temperature Coefficient of Wavelength	$\Delta\lambda / \Delta T$		0.28		nm / °C
Beam Divergence	FWHM		9 x 25		Degrees
Threshold Current	$I_{th}$		0.8		Amps
Peak Forward Current	$I_f$		45		Amps
Peak Power	$P_o$		500		Watts
Emitting Area			200 x 480		um
Operating Temperature	$T_o$	-40		85	°C
Storage Temperature	$T_s$	-40		85	°C
Pulse Width	PW			10	nS
Duty Factor	DF			0.05	%

### TO18T PACKAGE DRAWING



#### 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.