

CVN 5S63E-TO18T 905nm EXTENDED DUTY OPERATION

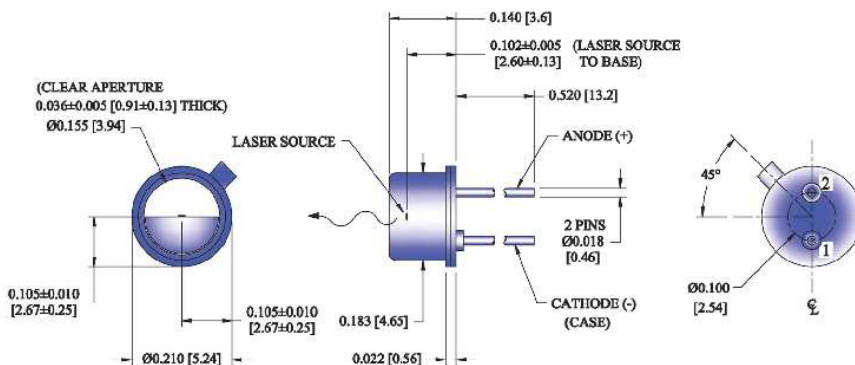
The CVN 5S63E-TO18T is a 5 element stacked multi-junction laser diode module operating at 905nm. The device is characterized under short pulse ($\leq 10\text{nS}$) conditions allowing higher peak optical power ratings. The laser stack is packaged in a twin lead TO18 hermetically sealed format. This product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



CVN 5S 63 EXTENDED DRIVE CHARACTERISTICS @ 25° C

Parameter	Symbol	Min	Typ	Max	Unit
Peak Wavelength	λ	893	903	913	nm
Spectral Width	λ		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		437		Watts
Emitting Area			220 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.