OSI LaserDiode, Inc.
An OSI Systems Company

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Product Specification Sheet

Dual Aiming Laser
CVDR 46650-TO5T
650nm Laser Diode for Rangefinding Applications
RoHS Compliant

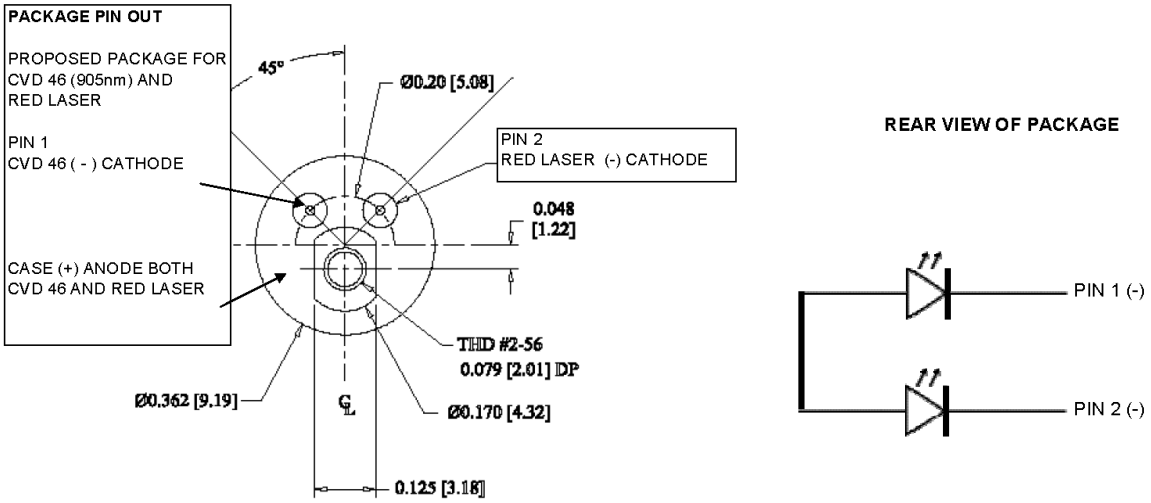
Laser package contains a 905 pulsed laser diode (CVD 46) and a 650nm laser diode mounted side by side (distance between the centers of emission = 720um) on a common platform (+, case, positive). The emission pattern of the two laser die will be centered on the package axis to within +/- 0.010 in.

Product Performance

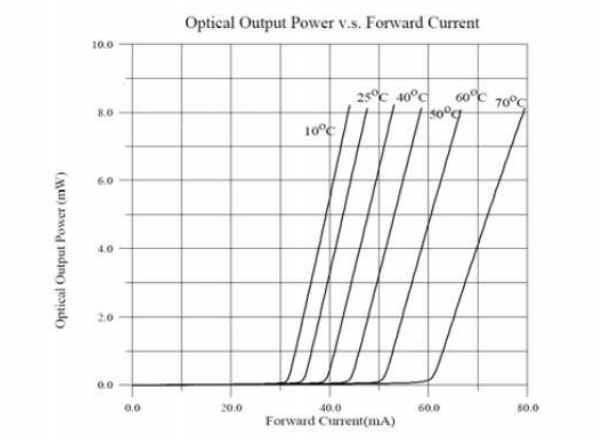
Parameters CVD 46	Symbol	Min.	Typ.	Max.	Units
Peak Wavelength	λ	895	905	915	nm
Spectral Width FWHM	Δλ		5		nm
Peak Power	P_o		3		W
Device Emitting Width	-		62		um
Optical Pulse Width	-		100		nS
Peak Drive Current	-		4		Amps
Rise Time	-		1		nS
Beam Spread	-		10 x 35		Degrees
Storage Temperature	T_s	-55	-	+85	°C
Operating Temperature	T_o	-45	-	+85	°C

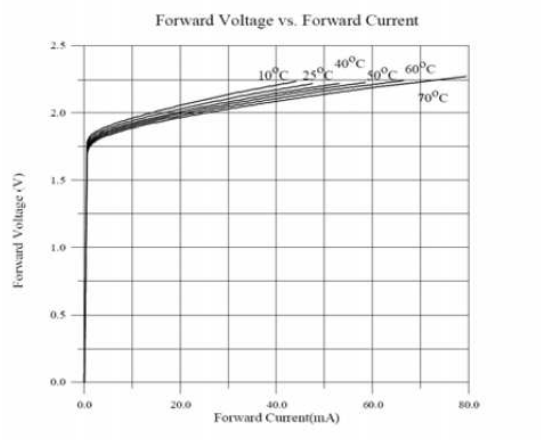
Parameters 650 Red	Symbol	Min.	Typ.	Max.	Units
Peak Wavelength	λ	640	655	660	nm
Spectral Width FWHM	Δλ		3		nm
Power	P_o		5		mW
Device Emitting Width	-		5		um
Optical Pulse Width	-		5		uS
Drive Current	-		29		mA
Duty Factor	-			5	%
Beam Spread	-		10 x 35		Degrees
Storage Temperature	T_s	-55	-	+85	°C
Operating Temperature	T_o	-45	-	+85	°C

FIGURE 1 PACKAGE OUTLINE
CUSTOM LASER CONFIGURATION, TO5T



Typical Forward Current and Voltage Curves





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 LDI sales representative.

Notice:
LDI reserves the right to make changes to the products or information contained herein withoutnotice. No liability is assumed as a result of their use or application.