

# product offered by LASER LAB SOURCE marketplace for Scientists & Engineers



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### PRODUCT DATA SHEET

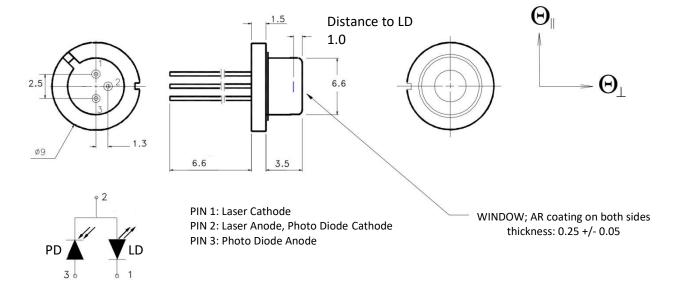
Laser Diode

#### Model FB-S1750-40SOT148

Specification	Symbol	Typical	Unit
Laser Emitter			
Peak Wavelength	λορ	1750±20	nm
CW Optical Output Power	Рор	40	mW
Operation Current	Іор	<300	mA
Operation Voltage	Uld	0.8±0.3	V
Threshold Current	Ith	<70	mA
Beam Divergence (FWHM)	θ	10±2	degree
Beam Divergence (FWHM)	θŤ	44±3	degree
Spectrum Half-Width (FWHM)	Δλ	<5	nm
Emitting Area	Wxd	6x1	μmxμm
Wavelength Temperature Coefficient	Δλ/ΔΤ	4	Å/degree
Operation Power Temperature Coefficient	ΔΡ/ΔΤ	0.2±0.05	mW/degree
Operation Current Temperature Coefficient	ΔΙ/ΔΤ	0.8±0.05	mA/degree
Mode Structure	SM	TEoo	-
Operation Temperature	Тор	25	degree
Operation Temperature Range		-40+50	degree
Storage Temperature Range		-40 +80	degree
Operation Mode	CW	Continuous	-
	Pulse	Wave	
Photo Diode Monitor			
Monitor Current		1-100	μA
PD Reverse Voltage		<5	V

*Note: To guarantee reliable operation of laser diode SOT-148 package must be mounted onto copper carrier with TEC (Peltier element) keeping constant temperature.* 

# Drawings:



### **PRODUCT WARRANTY:**

This product is sold with a full one year warranty. The warranty includes all parts and labor. It is warrantied to be free from defects in material and workmanship for a period of one year from the date of shipment. The warranty does not include damage to the product due to customer mishandling or use of the product outside of its specified maximum ratings.

## INSTALLATION SUPPORT OR TECHNICAL SUPPORT FOR THIS PRODUCT: 800-887-5065 extension 1 contact@laserdiodesource.com



Part of the Laser Lab Source Group: LaserLabSource.com LaserDiodeSource.com LaserDiodeControl.com Laser Diode Technologies

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