

product offered by



# LASER LAB SOURCE marketplace for Scientists & Engineers



contact@LaserLabSource.com

+1 406.219.1472

www.LaserLabSource.com



## **PRODUCT DATA SHEET**

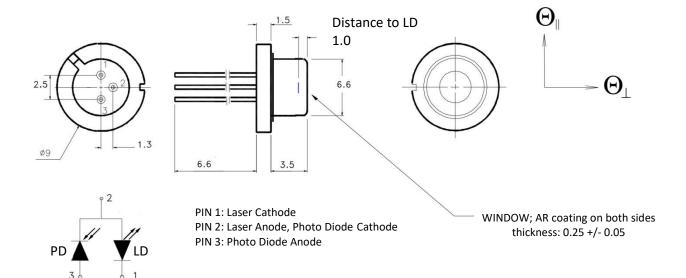
### Laser Diode

### Model FB-S1750-5SOT148

Specification	Symbol	Typical	Unit
Laser Emitter			
Peak Wavelength	λορ	1750±20	nm
CW Optical Output Power	Рор	5	mW
Operation Current	lop	<90	mA
Operation Voltage	Uld	$0,8\pm0,3$	V
Threshold Current	Ith	<60	mA
Beam Divergence (FWHM)	θ	10±2	degree
Beam Divergence (FWHM)	θ⊥	45±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	$0.2\pm0.05$	mW/degree
Operation Current Temperature Coefficient	ΔΙ/ΔΤ	$0.8\pm0.05$	mA/degree
Mode Structure	SM	TE00	-
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	μΑ
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

Laser Lab Source Inc.

1820 W. Lincoln Street Bozeman, MT USA 59715 contact@LaserDiodeSource.com contact@LaserDiodeControl.com 800-887-5065