

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



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advanced performance Semiconductor Lasers & Control Instruments



## **PRODUCT DATA SHEET**

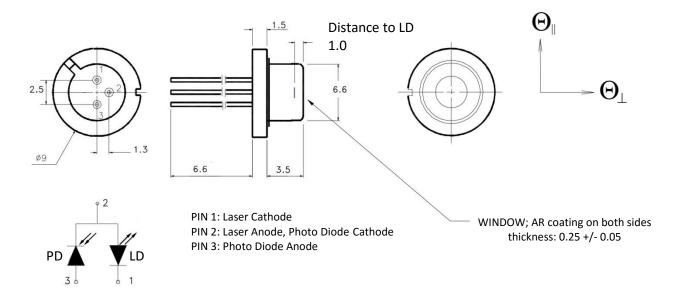
Laser Diode

#### Model FB-S1300-10SOT148

Specification	Symbol	Typical	Unit
La	iser Emitter		
Peak Wavelength	λορ	1300±30	nm
CW Optical Output Power	Рор	10	mW
Operation Current	lop	<80	mA
Operation Voltage	Uld	1.1±0.2	V
Threshold Current	lth	<40	mA
Beam Divergence (FWHM)	θ	8±2	degree
Beam Divergence (FWHM)	θŢ	45±5	degree
Spectrum Half-Width (FWHM)	Δλ	<2.5	nm
Emitting Area	Wxd	5x1	μmxμm
Wavelength Temperature Coefficient	Δλ/ΔΤ	4±0.5	nm/degree
Operation Power Temperature Coefficient	ΔΡ/ΔΤ	0.15±0.05	mW/degree
<b>Operation Current Temperature Coefficient</b>	ΔΙ/ΔΤ	0.4±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	
		Pulse, τ>5 ns	
Photo	Diode Monitor		
Monitor Current		1-1000	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

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