

## PRODUCT DATA SHEET

Laser Diode (TO-3 package)

Model FB-M1450-1500TO3

Specification	Symbol	Typical	Unit
Laser Emitter			
Peak Wavelength	$\lambda_{op}$	1450±20	nm
CW Optical Output Power	$P_{op}$	1.5	W
Operation Current	$I_{op}$	<5	A
Operation Voltage	$U_{ld}$	1.1±0.1	V
Threshold Current	$I_{th}$	<0.9	A
Beam Divergence (FWHM)	$\theta_{  }$	16±3	degree
Beam Divergence (FWHM)	$\theta_{\perp}$	1±0.3	degree
Spectrum Half-Width (FWHM)	$\Delta\lambda$	<7	nm
Emitting Area	$W \times d$	100x1	$\mu\text{m} \times \mu\text{m}$
Operation Mode	-	CW, QCW, Pulse ( $\tau > 5\text{ns}$ )	-
Operation Temperature	Top	25	degree
Photo Diode Monitor			
PD Monitor Current		1-1000	$\mu\text{A}$
PD Reverse Voltage		9	V
Wavelength Temperature Coefficient	$\Delta\lambda/\Delta T$	5.5±0.5	$\text{\AA}/\text{degree}$
Operation Current Temperature Coefficient	$\Delta I/\Delta T$	15±5	$\text{mA}/\text{degree}$
Operation Temperature Range		-20... +40	degree
Storage Temperature Range		-40... +80	degree



**PRODUCT WARRANTY:**

This product is sold with a full one year warranty. The warranty includes all parts and labor. It is warranted 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](mailto:contact@laserdiodesource.com)**



Part of the Laser Lab Source Group:  
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