



Fibercom Ltd.



PRODUCT DATA SHEET

Laser Diode

Model FB-M1550-100SOT148 -WOPD

Specification	Symbol	Typical	Unit
Laser Emitter			
Peak Wavelength	λ_{op}	1550 ± 30	nm
CW Optical Output Power	P_{op}	100	mW
Operation Current	I_{op}	<800	mA
Operation Voltage	U_{ld}	<1.2	V
Threshold Current	I_{th}	<600	mA
Beam Divergence (FWHM)	θ_{\parallel}	12 ± 5	degree
Beam Divergence (FWHM)	θ_{\perp}	45 ± 5	degree
Spectrum Half-Width (FWHM)	$\Delta\lambda$	<5	nm
Emitting Area	W_{xd}	100×1	$\mu\text{m} \times \mu\text{m}$
Wavelength Temperature Coefficient	$\Delta\lambda/\Delta T$	6.0 ± 0.5	$\text{\AA}/\text{degree}$
Operation Power Temperature Coefficient	$\Delta P/\Delta T$	0.1 ± 0.05	mW/degree
Mode Structure	MM	multi lateral mode	-
Operation Temperature	Top	25	degree
Operation Temperature Range		-40... +50	degree
Storage Temperature Range		-40... +80	degree
Operation Mode	-	CW, QCW, Pulse ($\tau > 5\text{ns}$)	-

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:

