



## PRODUCT DATA SHEET

Laser Diode

Model FB-M1550-100SOT148 -WOPD

Specification	Symbol	Typical	Unit
Laser Emitter			
Peak Wavelength	$\lambda_{op}$	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)	$\theta_{  }$	12±5	degree
Beam Divergence (FWHM)	$\theta_{\perp}$	45±5	degree
Spectrum Half-Width (FWHM)	$\Delta\lambda$	<5	nm
Emitting Area	$W \times d$	100x1	$\mu\text{m} \times \mu\text{m}$
Wavelength Temperature Coefficient	$\Delta\lambda/\Delta T$	6.0±0.5	Å/degree
Operation Power Temperature Coefficient	$\Delta P/\Delta T$	0.1±0.05	mW/degree
Operation Current Temperature Coefficient	$\Delta I/\Delta T$	0.6±0.05	mA/degree
Mode Structure	MM	multi lateral mode	-
Operation Temperature	$T_{op}$	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:

