Fibercom Ltd.

PRODUCT DATA SHEET

Laser Diode

Model FB-S1300-20SOT148

Specification	Symbol	Typical	Unit
Laser Emitter			
Peak Wavelength	λop	**1300±30**	nm
CW Optical Output Power	Pop	**20**	mW
Operation Current	Iop	**<100**	mA
Operation Voltage	Uld	**1.2±0.2**	V
Threshold Current	Ith	**<45**	mA
Beam Divergence (FWHM)	θ∥	**8±2**	degree
Beam Divergence (FWHM)	θ⊥	**45±5**	degree
Spectrum Half-Width (FWHM)	Δλ	**<3**	nm
Emitting Area	Wxd	**5x1**	μmxμm
Wavelength Temperature Coefficient	Δλ/ΔT	**4.5 +/-0.5**	Å/degree
Operation Power Temperature Coefficient	ΔP/ΔT	**0.15±0.05**	mW/degree
Operation Current Temperature Coefficient	ΔI/ΔT	**0.4±0.05**	mA/degree
Mode Structure	SM	**TE_{00}**	-
Operation Temperature	Top	**25**	degree
Operation Temperature Range		**-40… +50**	degree
Storage Temperature Range		**-40… +80**	degree
Operation Mode	CW Pulse	Continuous Wave Pulse, τ>5 ns	-
Photo Diode Monitor			
Monitor Current		1-1000	μA
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.

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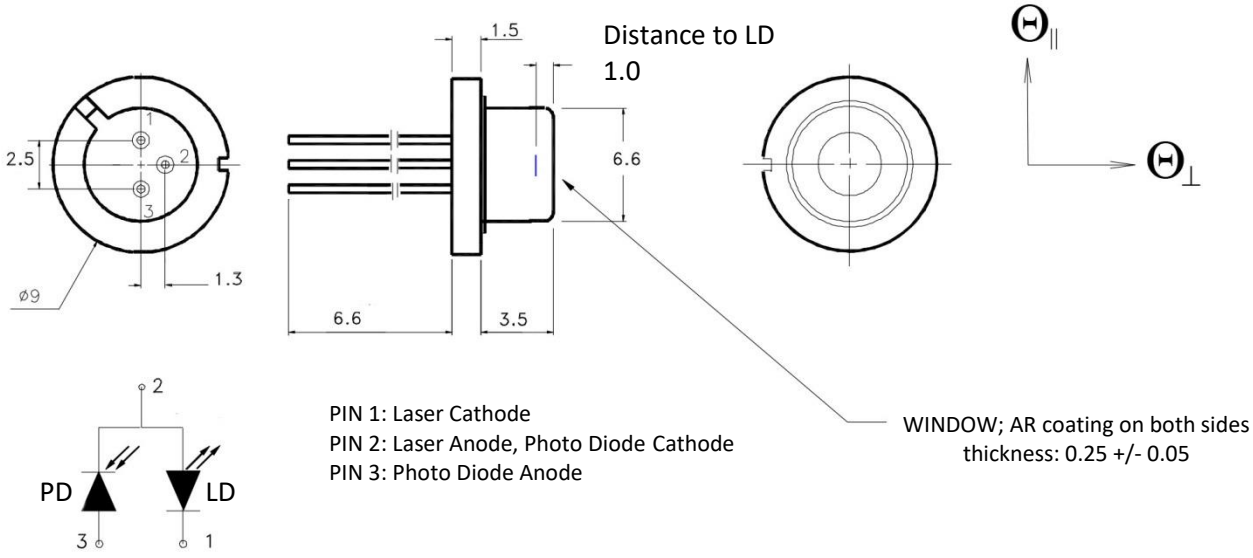
Drawings:



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