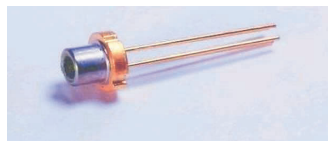


EP1310-FP-T-258-563F-Q

1310nm Fabry Perot Lasers - TO Can



FEATURES

- 1310nm emission wavelength
- InAlGaAs composition for reliable uncooled operation
- Operating Temperature Range -40 °C to +85 °C
- High Slope Efficiency
- High Bandwidth for operation to 2.5Gbps

APPLICATIONS

- High Speed Access Optical Links
- High Speed Datacoms
- Digital Transport Links (SDH/SONET)
- FTTX
- PON

ELECTRO-OPTICAL CHARACTERISTICS (T = 25°C unless stated otherwise):

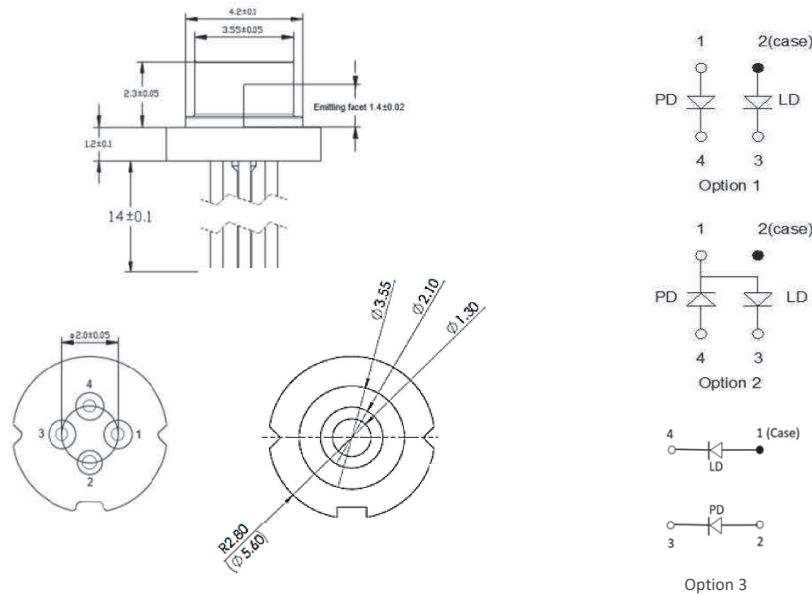
PARAMETER		SYMBOL	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
Threshold Current		I_{th}		10	15	mA	CW, T=25°C
Output Power		P_o	5			mW	At I_{op}
Operating Current	Flat Window	I_{op}		19	28	mA	CW, $P_o = 5mW$
	1.5mm Ball Lens			23	33	mA	
	2.0mm Ball Lens			22	31	mA	
Peak Wavelength		λ	1290	1310	1330	nm	CW, $P_o = 1$ to 5mW
Wavelength Temperature coefficient				0.5		nm / °C	
Quantum Efficiency		SE	0.28		0.53	W/A	CW, $P_o = 1$ to 5mW
Forward Voltage		V_f		1.2	1.5	Volts	At I_{op}
Output Power at Threshold		P_{th}			200	μW	
Spectral Width RMS		$\Delta\lambda$		1	3	nm	At I_{op}
Focal Length	1.5mm Ball Lens	FL	6.05	6.3	6.65	mm	
	2.0mm Ball Lens	FL	6.35	6.5	6.65	mm	
Beam Divergence - perpendicular		$(\theta_{\perp})$		27		degrees	Flat Window CW, $P_o = 5mW$
Beam Divergence - parallel		$(\theta_{\parallel})$		21		degrees	
Rise/fall Time					120	ps	At I_{op}
Monitor output current				100	700	μA	At I_{op}
Monitor PD terminal capacitance					20	pF	

ABSOLUTE MAXIMUM RATINGS

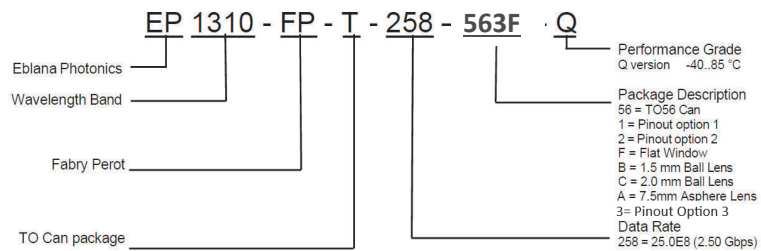
PARAMETER	MIN.	MAX.	UNITS	CONDITION
Forward Current (PD)		2	mA	
Forward Current (LD)		120	mA	
Reverse Voltage (LD)		2	Volts	
Reverse Voltage (PD)		15	Volts	
Operating Case Temperature (T)	T_{min}	T_{max}	°C	
Grade Q	-40	85	°C	
Storage Temperature	-40	100	°C	

PACKAGE:

The EP1310-FP-T product series is offered in a TO56 package format - see package outline drawings below (Fig. 1). The package pinout is shown in Fig. 2.



HOW TO ORDER (example):



Eblana Photonics Ltd.
 Phone: + 353-1-675-3220
 Website: www.eblanaphotonics.com
 Email : sales@eblanaphotonics.com



Eblana Photonics reserves the right to make changes to the specification without prior notice.

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