

EP1550-FP-T Series

1550nm Fabry Perot Lasers - TO Can



FEATURES

- 1550nm emission wavelength
- InAlGaAs composition for reliable uncooled operation
- Operating Temperature Range -40 °C to +85 °C
- Low Threshold Current
- High Bandwidth - up to 2.5Gbps

APPLICATIONS

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

ELECTRO-OPTICAL CHARACTERISTICS (T_{op} = 25°C unless stated otherwise):

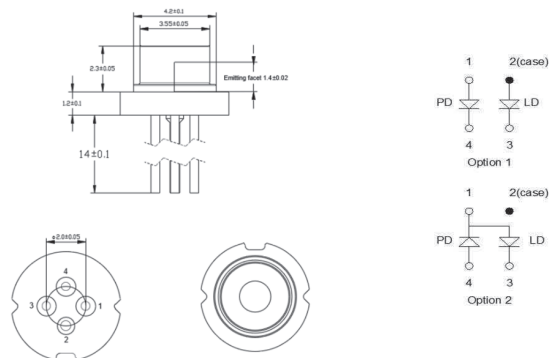
PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Threshold Current	I _{th}		9	15	mA	CW
Output Power	P _O	5			mW	CW, I = I _{op}
Operating Current	I _{op}		25	39	mA	CW, P _O = 5mW
Peak Wavelength	λ	1520	1550	1580	nm	CW, P _O = 5mW
Wavelength Temperature coefficient			0.6		nm / °C	-40°C < T _{op} < 85°C
Quantum Efficiency	η	0.20	0.30		mW/mA	CW, P _O = 1 to 5mW
Forward Voltage	V _f		1.1	1.5	Volts	I = I _{op}
Output Power at Threshold				150	μW	
Spectral Width RMS	Δλ			3	nm	I = I _{op}
Rise time/fall time				120	ps	I = I _{op}
Monitor output current		100		700	μA	I = I _{op}
Monitor PD terminal capacitance				20	pF	
Focal Length		6.1	6.3	6.5	mW	

ABSOLUTE MAXIMUM RATINGS:

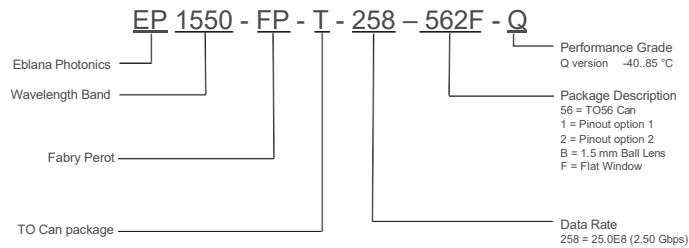
PARAMETER	CONDITION	MIN	MAX	UNIT
Forward Current (PD)			2	mA
Forward Current Transient (LD)	1 μs max		150	mA
Reverse Voltage (LD)			2	Volts
Reverse Voltage (PD)			15	Volts
Case Operating Temperature (T _{op})		-40	85	°C
Storage Temperature		-40	85	°C

PACKAGE:

The EP1550-FP-T product series is offered in a TO 56 package format - see package outline drawing below (Fig 1). The package pinout may be specified according to the options shown in Fig 2.


HOW TO ORDER (example):

Please use the following example as a guide to building the appropriate part number for the device you require:


SALES:

Details on Eblana Photonics Sales locations may be found on Eblana Photonics website :
www.eblanaphotonics.com

Alternatively, contact Eblana Photonics Headquarters in Dublin, Ireland.

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