EP1310-FP-OLC-AD
1310nm Fabry-Perot Laser - TOSA Module

FEATURES
- Low threshold current
- High stability
- Standard LC connector
- Defocused launch for coupling to MMF

APPLICATIONS
- Optical communications
- Custom

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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Threshold Current	I_{th}	7	10	12	mA	CW
Operating Current	I_{op}	20	-	30	mA	CW
Operating Voltage	V_{op}	-	1.2	1.3	Volts	Iop = 20-30mA
Output Power (for all fiber orientations)	P_f	0.02	-	0.04	mW	CW, I_{op} = 20-30mA, **MMFϕ62.5/125**
Centre Wavelength	λ	1290	1310	1320	nm	CW
Rise and Fall Time	T_r, T_f	-	0.1	0.2	ns	I = I_{th}, 20%-80%
Monitor output current	I_{mon}	0.4	0.5	0.6	mA	I_{op} = 20-30mA
Monitor dark current	I_d	-	-	0.1	mA	V_{rpd} = 5V

ABSOLUTE MAXIMUM RATINGS:

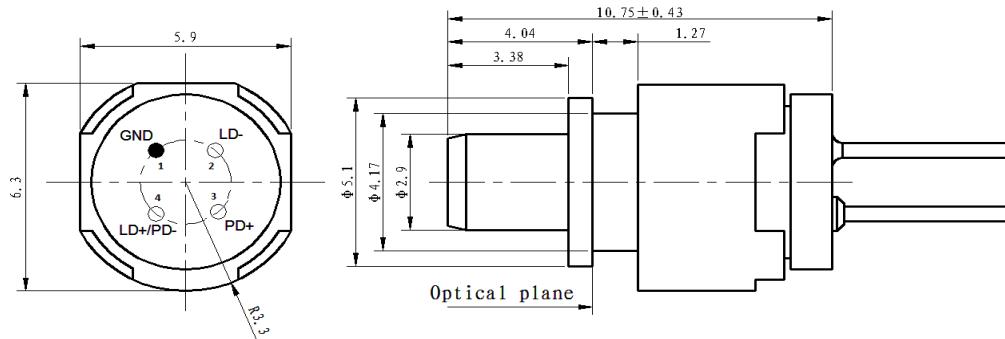| PARAMETER	CONDITION	MIN	MAX	UNIT
Laser Forward Current	-	-	100	mA
Reverse Voltage (LD)	-	-	2	Volts
Reverse Voltage (PD) (V_r)	-	-	15	Volts
Operating Temperature (T_{op})	I = I_{op}	-40	85	°C
Storage Temperature	-	-40	100	°C
mPD Forward Current (I_{fpd})	-	-	2	mA
mPD Reverse Voltage (V_{rpd})	-	-	15	Volts
Lead soldering temperature/time	-	-	260/10	$^{o}C/s$

PACKAGE:

Fig. 1 - Package Outline (dimensions in mm) and pin/barrel orientation.

Pin Assignment	
1	GND
2	LD-
3	PD+
4	LD+/PD-

Fig. 2 - Electrical Pinout

REVISION HISTORY

Rev number	Date	Reason
2.0	04/09/2015	Original - New TOSA design with attenuation
2.1	17/09/2015	Min power spec changed to 0.02uW at Iop. Updated pinout drawing.
2.2	18/09/2015	Corrected mistake on rev number on second page, added rev history

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