TBD-3G12-001

1310 nm DFB LD

Features and Applications

- 1310 nm emission wavelength
- Capable to run 2.5G bps and above data rate

.

ELECTRO-OPTICAL CHARACTERISTICS:

PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Operating Wavelength	λ_P	1290	1310	1330	nm	CW, Iop=30(mA)
Threshold Current	Ith		10	15	mA	CW, Tc= 25°C
Slope Efficiency	η	0.32	0.45		mW /mA	Power = 0.5–5 mW
Series Resistance	Rs		8	12	Ohm	Power = 3–7 mW
Side Mode Suppression Ratio	SMSR	35			nm	CW, Iop=30(mA)

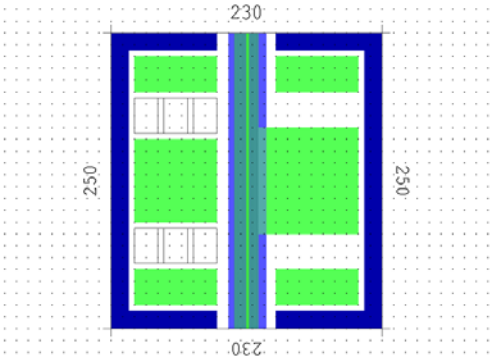
Notes: All parameters are measured at 25°C room temperature, CW operation.

ABSOLUTE MAXIMUM RATINGS:

PARAMETERS	MIN	MAX	UNIT	CONDITION
Storage Temperature	-40	85	°C	
Operating Temperature	-40	85	°C	
Output power		10	mW	
Reverse Voltage		2	V	

OUTLINE DIAGRAM:

- chip size is 230 x 250 μm with 100+/-15 μm thickness.



WARNING:

The DFB LD is a class 3B laser in the safety standard IEC60825-1:2014 and should be treated to avoid exposure to beam..