TFD-3G12-050

10G 1310 nm Normal Power FP LD

Features and Applications

- 1310 nm emission wavelength
- Capable to run 10.3125G bps and above data rate

.

ELECTRO-OPTICAL CHARACTERISTICS:

PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Output Power	P_{op}	5			mW	
Operating Wavelength	λ_P	1290	1310	1330	nm	Power = 5 mW
Threshold Current	Ith		7	10	mA	
Slope Efficiency	η	0.35	0.39		mW /mA	Power = 1–5 mW
Forward Voltage	V_F		1.1	1.4	V	Power = 5 mW
Series Resistance	Rs		7	12	Ohm	Power = 1–5 mW
Spectrum wavelength	$\Delta\lambda$		2	3	nm	Power = 5 mW
Divergence angle (Parallel)	$\theta//$		28		degree	
Divergence angle (Prependicular)	$\theta\perp$		36		degree	

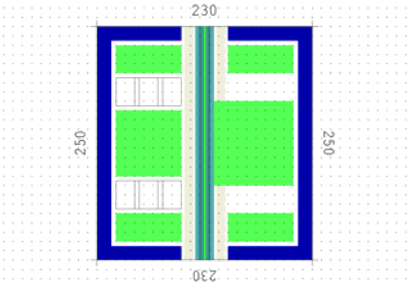
Notes: All parameters are measured at 25ºC room temperature, CW operation.

ABSOLUTE MAXIMUM RATINGS:

PARAMETERS	MIN	MAX	UNIT	CONDITION
Storage Temperature	-40	85	°C	
Operating Temperature	-40	85	°C	
Output power		8	mW	
Reverse Voltage		2	V	

OUTLINE DIAGRAM:

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



WARNING:

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