

TME-3F42-278

1310nm 2.5Gbps FP Laser Diode

FEATURES:

- Industry TO-56 package with 1.5(mm) ball lens cap
- 1310nm wavelength
- Data rate up to 2.5Gbps
- Wide temperature operation (-40°C~85°C)
- Common anode type



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

PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Threshold Current	I_{th}		10	15	mA	CW
Operating Current	I_{op}			35	mA	CW, Po=5mW
Operating Voltage	V_{op}		1.1	1.5	V	CW, Po=5mW
Slope Efficiency	η	0.3	0.38		mW/mA	CW, Po=5mW
Peak Wavelength	λ_p	1290	1310	1330	nm	CW, Po=5mW
Spectral width (RMS)	$\Delta \lambda$			3	nm	CW, Iop=Ith+20(mA), (RMS,-20dB)
Rise / Fall Time (20%~80%)	Tr / Tf			200	ps	Po=5mW
PD Monitor Current	I_m	100		800	uA	CW, Po=5mW, VR=1V
PD Dark Current	I_d			0.1	uA	VR=5V
PD Capacitance	C_{PD}		3	10	pF	VR=5V @1MHz
Focal Length	FL	6.0	6.3	6.6	mm	CW, Iop = Ith + 20mA

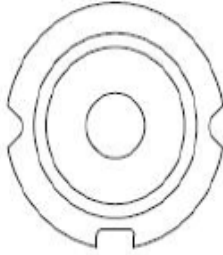
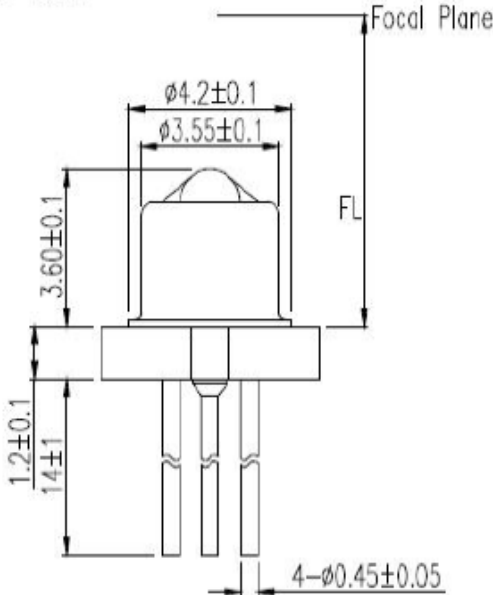
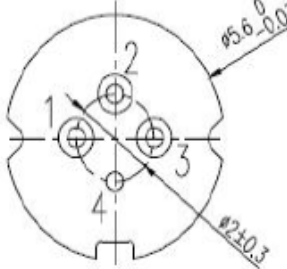
ABSOLUTE MAXIMUM RATINGS :

PARAMETERS	MIN	MAX	UNIT	CONDITIONS
Storage Temperature	-40	85	°C	
Operating Temperature	-40	85	°C	
Lead Solder Temperature		260	°C	10 seconds
LD Reverse Voltage		2	V	
PD Reverse Voltage		20	V	
PD forward Current		2	mA	

The FP Laser is a class 1 laser in the safety standard IEC60825-1:2014.



OUTLINE DIMENSIONS: (unit : mm)

Outline Dimensions	TME-3F42-278	
Top view  Side view  Bottom view  Rev:D Unit: mm	Focal Length : 6.3 ± 0.3 mm	
	Pin Out (Bottom View)	1: LD Cathode 2: PD Anode 3: LD Anode / PD Cathode 4: CASE