

TME-3F42-201

1310nm 2.5Gbps FP Laser Diode

FEATURES:

- Industry TO-56 package of ball lens cap
- 1310nm typical emission wavelength
- Data rate operation from DC to 2.5Gbps
- Common anode type



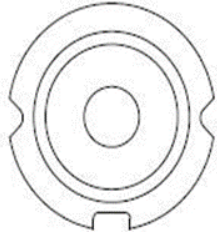
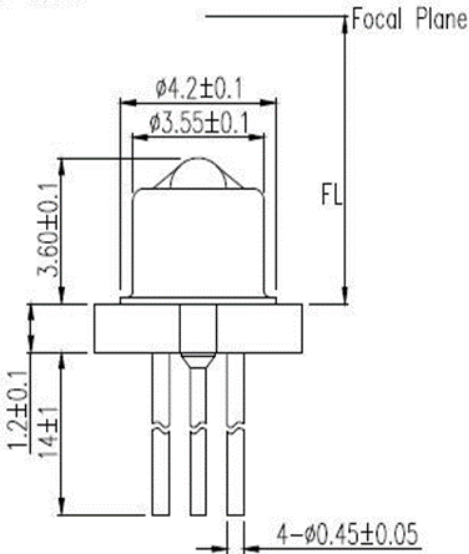
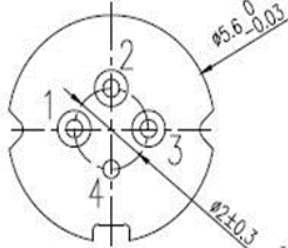
ELECTRO-OPTICAL CHARACTERISTICS : (Tc=25°C, unless otherwise stated)

PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Threshold Current	I_{th}		10	15	mA	CW
Operation Current	I_{op}			35	mA	CW, Po=5mW
Operation Voltage	V_{op}		1.1	1.5	V	CW, Po=5mW
Slope Efficiency	η	0.25	0.32		mW/mA	CW, Po=5mW
Peak Wavelength	λ_P	1290	1310	1330	nm	CW, Po=5mW
Rise / Fall Time (20%~80%)	T_r / T_f			150	ps	Po=5mW
Spectral Width (RMS)	$\Delta\lambda$			3	nm	CW, Po=5mW, (RMS, -20 dB)
PD Monitor Current	I_m	100		1000	uA	CW, Po=5mW, $V_R=1V$
PD Dark Current	I_d			0.1	uA	$V_R=5V$
PD Capacitance	C_{PD}		3	10	pF	$V_R=5V @1MHz$
Focal Length	FL	5.75	5.85	5.95	mm	CW, Po = 5mW, SMF

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	
LD Optical Output Power		10	mW	

OUTLINE DIMENSIONS: (unit : mm)

Outline Dimensions	TME-3F42-201	
Top view  Side view  Bottom view  Rev:D Unit: mm	Focal Length : 5.85 ± 0.1 mm	
	Pin Out (Bottom View)	1: LD Cathode 2: PD Anode 3: LD Anode / PD Cathode 4: Case

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

