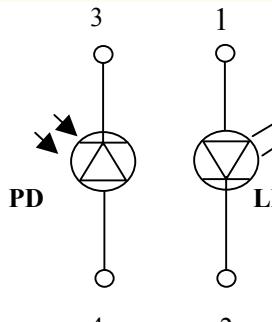
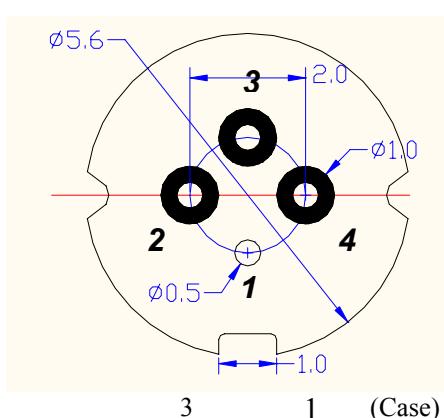
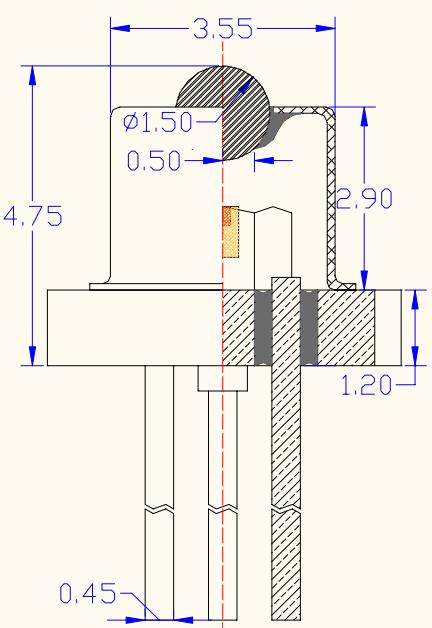




VCSEL/LD Division



Bottom View
Unit: mm

1550nm FPEEL in To-56 Package

1. Feature:

- a. Ball Lens Package
- b. Low Threshold Current
- c. Modulation Capability up to 1.25Gbps
- d. Wide Operating Temperature Range: -40°C to +85°C

2. Application:

- a. Gigabit Ethernet
- b. Fiber Channel
- c. ATM transceiver modules and system
- d. High-speed data communications and telecommunications applications

3. Part Number: **LA-TMSF-5BBO**

4. Optical and Electrical Characteristics

Parameter	Symbol	Min.	TYP.	Max.	Unit	Test Condition
Threshold Current	I _{th}		10	15	mA	CW. ½ (dP/dI) peak
Operation Current	I _{op}		30	35	mA	CW. P ₀ =5mW
Operation Voltage	V _{op}		1.15	1.5	V	CW. P ₀ =5mW
Slope Efficiency	η	0.15	0.20		W/A	CW. P ₀ =5mW
Center Wavelength	λ _c	1520	1550	1580	nm	CW. P ₀ =5mW
Spectra Width	Δλ		2	4	nm	CW. P ₀ =5mW (FWHM)
Rise / Fall Time	t _r / t _f		80	120	ps	20~80%
Beam Divergence (Full width at half max)	Θ		8		deg	CW. P ₀ =5mW (parallel)
Beam Divergence (Full width at half max)	Θ _⊥		15		deg	CW. P ₀ =5mW (perpendicular)
Monitor Output Current (PD)	I _m	0.1	0.3		mA	CW. P ₀ =5mW VRD=1V RL=10Ω
Dark Current (PD)	I _d			0.1	uA	VRD=10V

5. Maximum Ratings

Parameter	SYMBOL	Min.	Max.	Unit
Optical Output Power	P ₀	-	7	mW
Reverse Voltage (LD)	V _{RL}	-	2	V
Reverse Voltage (PD)	V _{RD}	-	20	V
Forward Current (PD)	I _{FD}	-	2	mA
Case Temperature	T _o	-40	+85	°C
Storage Temperature	T _{STG}	-40	+125	°C

Note. These specifications are subject to change without notice.

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