

850nm Vcsel TOSA

Features:

- Vcsel laser diode
- Low threshold current, Low operating current
- High reliability, Long operation life
- Rohs Compliant

Applications:

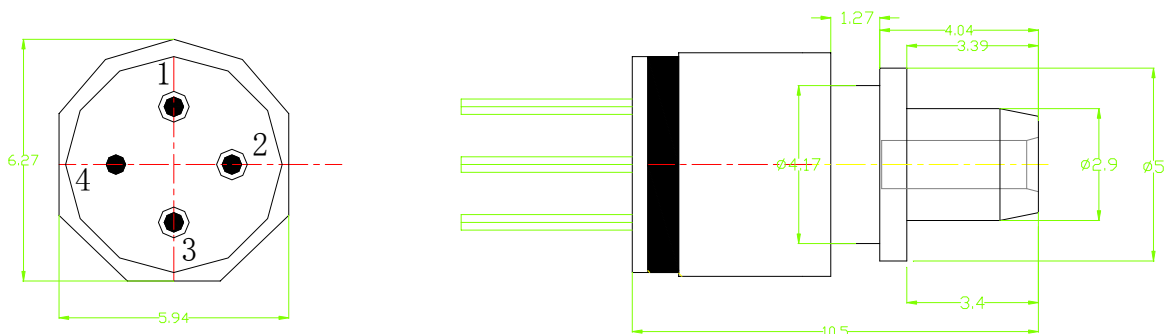
- Ethernet, SONET
- FTTH System

**Optical and electrical Characteristics**

Parameter	Test condition	Symbol	Min	Typ	Max	Unit
Wavelength	If=6mA	λ_p	830	850	860	nm
Spectral width	If=6mA	$\Delta\lambda$			0.85	nm
Threshold current	CW	I _{th}		2	3	mA
Forward voltage	If=6mA	V	1.7	1.8	2.2	V
Output power	If=6mA	P _o	-7	-5		dBm
Rise and Fall Time	I _b =I _{th} , 20-80%	t _r , t _f		0.1	0.15	ns
Breakdown voltage	I _r =10uA	V _{bd}	5	14		V
PD Capacitance	V _r =3V@1MHz	C _{pd}		6	10	pF
Photodiode current	P _o =500uW	I _m		0.45		mA
Series Resistance	If=6mA	R _s	30	45	65	Ω

Absolute Maximum Ratings

Parameter	Test condition	Ratings	Unit
Operating temperature		-10~+85	°C
Storage temperature		-40~+100	°C
Reverse voltage(LD)	CW	5	V
Forward Current(PD)		12	mA

Assembly Package**LC TOSA****Pin Assignment**

PN	Type A	Type B
1	Vcsel cathode	Vcsel Anode
2	Vcsel anode/PD cathode	Vcsel Cathode/PD Anode
3	PD anode	PD Cathode
4	Case	Case

Ordering information

STO-ABCDEFG

A(LD type)	B(LD wave)	C(Power)	D(Data rate)	E(Pinout)	F (Package)	G(Isolation)
F-FP	1-650nm	1\ -10-15dBm	1\ 1.25GB/S	A	SC	N
D-DFB	2-850nm	2\ -8~-10dBm	2\ 2.5Gb/s	C	FC	I
E-LED	3-1310nm	3\ -3~-8dBm	3\ 10Gb/s		LC	
	4-1490nm	4\ 0~-3dBm			ST	
	5-1550nm	5\ +3~0dBm				
	6-1625nm	6\ +6~+3dBm				
	7-CWDM	7\ >+6dBm				