



TOSA-LC 10Gbps 1310nm DFB

Features:

- Low threshold current
- High bandwidth
- Operating temperature range $T_C = -40$ to $+85^\circ\text{C}$
- With optical isolator

Applications:

- 10G Gigabit Ethernet
- 10G Fiber Channel

Specifications:

Absolute Maximum Ratings:

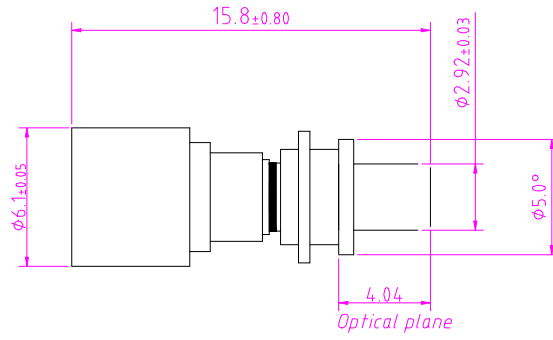
Parameter	Symbol	Min	Max.	Unit
LD Reverse Voltage	$V_{r(LD)}$	--	2	V
LD Forward Current	$I_{f(LD)}$	--	120	mA
PD Forward Current	$I_{f(PD)}$	--	10	mA
PD Reverse Voltage	$V_{r(PD)}$	--	20	V
Operating Temperature	T_{op}	-40	85	
Storage Temperature	T_{stg}	-40	95	
Lead Solder Temperature	--	--	260	
Lead Soldering Time	--	--	10	s

Electro-Optical Characteristics:

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Threshold Current	I_{th}	--	--	--	12	mA
Forward Voltage	V_f	$I_{op}=I_{th}+20\text{mA}$	--	1.3	1.6	V
Monitor Current(MPD)	I_m	$I_{op}=I_{th}+20\text{mA}$	100	--	1000	μA
Dark Current(MPD)	I_d	$V_r=5\text{V}$	--	--	100	nA
Optical Output Power	P_o	$I_{op}=I_{th}+20\text{mA}$	0.45	--	0.75	mW
Slope efficiency	SE	$I_{op}=I_{th}+20\text{mA}$	0.0225	--	0.0375	mW/mA
Central Wavelength	λ_c	$I_{op}=I_{th}+20\text{mA}$	1300	1310	1320	nm
Spectral Width , -20dB	$\Delta\lambda$	$I_{op}=I_{th}+20\text{mA}$	--	--	1	nm
Side-mode suppression Ratio	SMSR	$I_{op}=I_{th}+20\text{mA}$	30	--	--	dB
Rise/Fall Tim(20~80%)	T_r/T_f	--	--	--	45	ps
Tracking Error	TE	-40 ~85	-1.5	--	+1.5	dB



Mechanical Dimension and Pin Assignment:





Statement:

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