



TOSA-LC 25Gbps 1310nm DFB

Features:

Low threshold current
High bandwidth

Applications:

25Gigabit Ethernet
25G Fiber Channel

Specifications

Absolute Maximum Ratings:

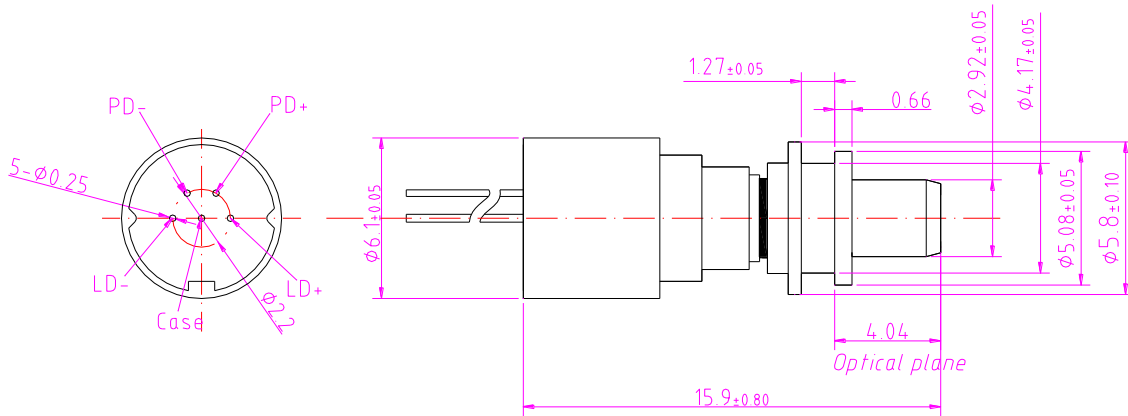
Parameter	Symbol	Min	Max.	Unit
LD Reverse Voltage	$V_{r(LD)}$	--	2	V
LD Forward Current	$I_{f(LD)}$	--	100	mA
MPD Forward Current	$I_{f(PD)}$	--	1	mA
MPD Reverse Voltage	$V_{r(PD)}$	--	6	V
Operating Temperature	Top	-5	85	
Storage Temperature	Tstg	-40	100	
Lead Solder Temperature	--	--	260	
Lead Soldering Time	--	--	10	s

Electro-Optical Characteristics:

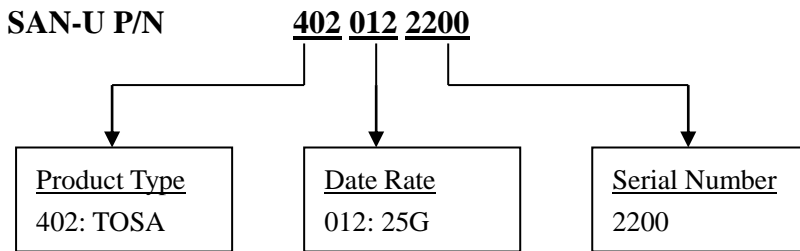
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Threshold Current	Ith	$T_C = 25$	--	12	--	mA
		$T_C = 85$	--	30	--	
Forward Voltage	Vf	$I_{op} = I_{th} + 30\text{mA}$	--	1.3	--	V
Monitor Current(MPD)	Im	$I_{op} = I_{th} + 30\text{mA}$	100	--	1000	uA
Dark Current(MPD)	Id	$V_r = 5\text{V}$	--	--	100	nA
Optical Output Power	Po	$I_{op} = I_{th} + 30\text{mA}$	0.72	--	1.11	mW
Slope efficiency	SE	$I_{op} = I_{th} + 30\text{mA}$	0.024	--	0.037	mW/mA
Central Wavelength		$I_{op} = I_{th} + 30\text{mA}$	1300	1310	1320	nm
Spectral Width , -20dB		$I_{op} = I_{th} + 30\text{mA}$	--	--	1	nm
Side-mode suppression Ratio	SMSR	$I_{op} = I_{th} + 30\text{mA}$	30	--	--	dB
Rise/Fall Time	Tr/tf	20-80%	--	20	--	ps
Tracking Error	TE	-5 ~85	-1.5	--	+1.5	dB
Optical Return Loss	ORL	--	--	--	35	dB



Mechanical Dimension and Pin Assignment:



Order Information:



Statement

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