



## 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	$T_{op}$	-5	85	°C
Storage Temperature	$T_{stg}$	-40	100	°C
Lead Solder Temperature	--	--	260	°C
Lead Soldering Time	--	--	10	s

#### Electro-Optical Characteristics:

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Threshold Current	I <sub>th</sub>	T <sub>C</sub> =25°C	--	12	--	mA
		T <sub>C</sub> =85°C	--	30	--	
Forward Voltage	V <sub>f</sub>	I <sub>op</sub> =I <sub>th</sub> +30mA	--	1.3	--	V
Monitor Current(MPD)	I <sub>m</sub>	I <sub>op</sub> =I <sub>th</sub> +30mA	100	--	1000	uA
Dark Current(MPD)	I <sub>d</sub>	V <sub>r</sub> =5V	--	--	100	nA
Optical Output Power	P <sub>o</sub>	I <sub>op</sub> =I <sub>th</sub> +30mA	0.72	--	1.11	mW
Slope efficiency	SE	I <sub>op</sub> =I <sub>th</sub> +30mA	0.024	--	0.037	mW/mA
Central Wavelength		I <sub>op</sub> =I <sub>th</sub> +30mA	1300	1310	1320	nm
Spectral Width , -20dB		I <sub>op</sub> =I <sub>th</sub> +30mA	--	--	1	nm

**厦门三优光电股份有限公司**

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