



850nm VCSEL MM LC TOSA

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Features

- High coupled power
- Peak wavelength 850nm
- Low threshold current 3mA
- High speed $t_r, t_f < 0.3\text{ns}$
- Operating temperature range 0°C to 70°C
- Hermetically sealed To -46 package in LC receptacle

Applications

- Gigabit Ethernet

Specifications (T=25 °C)

Parameter	Symbol	Test Conditions	Min	Typical	Max	Units
Peak wavelength	λ	$I_{op}=12\text{mA}$	830	850	860	nm
Spectral width FWHN	$\Delta\lambda$	P_0	-	-	0.85	nm
Threshold current	I_{th}	-	-	3	6	mA
Threshold current temperature variation (0 to 70°C)	-	-	-1	-	1	mA
Coupled power (62.5/125 μm fiber)	P_0	10mA				
-1			0.2	-	0.4	mW
-2			0.5			mW
Slope efficiency	SE	P_0	-	0.25	-	mW/mA
Slope efficiency temperature dependence	SE	P_0	-	-0.15	-	%/ $^\circ\text{C}$
Monitor Current (PD)	I_m	P_0	0.03	0.1	-	mA
Forward voltage	V_f	P_0	1.7	1.9	2.2	V
Series Resistance	R_s	P_0	-	30	-	Ω

Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit
Continuous forward current (LD)	I_{op}	-	15	mA
Continuous reverse voltage (LD)	V_{RL}	-	10	V
Operating temperature	T_O	0	85	$^\circ\text{C}$
Storage temperature	T_{stg}	-40	100	$^\circ\text{C}$
Lead soldering temperature (10 sec)	T_L	-	260	$^\circ\text{C}$

Ordering Information

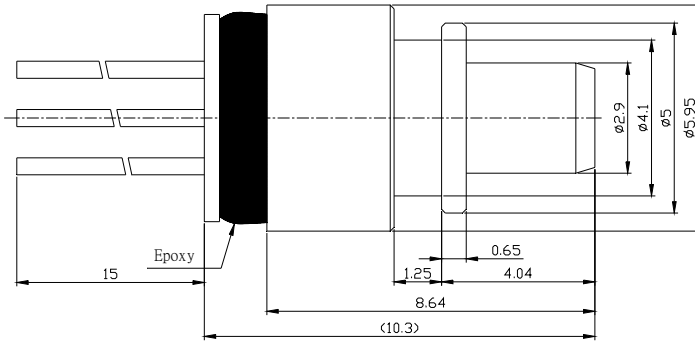
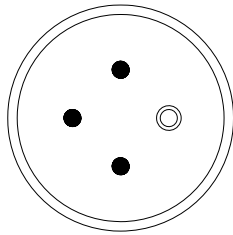
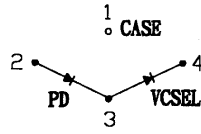
SNS-5V D 8 5 A

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Grade
1,2 for coupled power level
(please see the specs above)

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Pin Connections

BOTTOM VIEW



Unit: MM