

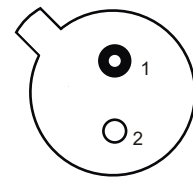
Singlemode - VCSEL 1310 nm (VCSEL = Vertical Cavity Surface Emitting Laser)



Features of Diode

- 1310 nm single-mode VCSEL in TO-46
- Optical output power: 1.8 mW
- High data-rate modulation up to 3.125 Gbps
- Low power consumption
- Low drive currents and low threshold voltage
- Integrated monitoring diode optional
- available with angled cap and anti-reflection window

PINOUT



Bottom view

Absolute maximum ratings

Parameter	Min.	Max.
Storage temperature	-40 °C	85 °C
Operating temperature	-20 °C	70 °C
Laser continuous forward current		20 mA
Laser reverse voltage		1.0 V

Number	Function
1	VCSEL Cathode
2	VCSEL Anode

Electrical-optical characteristics

Parameter VCSEL	Test Condition	Min.	Typ.	Max.
Wavelength	$T_o = 20\text{ °C}, @ P_{max}/2$	1300 nm	1330	1350 nm
Threshold current	$T_o = 20\text{ °C}$	0.5 mA	1.5 mA	2.5 mA
Laser forward voltage		1.1 V	1.3 V	2.0 V
Bandwidth			3.125 Gbps	
Operating current	$T_o = 20\text{ °C}$		16 mA	20 mA
Parameter Receptacle		Min.	Typ.	Max.
Optical output power (type A)	Singlemode 9/125 μm fiber	500 μW	700 μW	
	Multimode 50/125 μm fiber	1000 μW	1200 μW	
Possible receptacle (type A)	ST1, ST2, ST4, P2, LC, SC, FC1, FC2, Fiberdip, SMA1 ¹⁾ , SMA2 ¹⁾			

Compliant with RoHS-requirements (2002/95/EG vom 27.01.2003)