

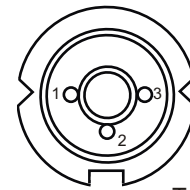
Singlemode - Laser Diode 650 nm

Features of Diode

- 650 nm single-mode Laser Diode
- Designed for drive currents between 30 and 45 mA
- TO-18 flat window metal can component
- Packaged with a photodetector



PINOUT



Top view

Absolute maximum ratings

Parameter	Min.	Max.
Storage temperature	-40 °C	85 °C
Operating temperature	-10 °C	70 °C
Laser continuous forward current		45 mA
Laser reverse voltage		2.0 V
PD reverse voltage		30 V

Number	Function
1	Laser Diode Cathode
2	Laser Diode Anode, Monitordiode Cathode
3	Monitordiode Anode

Electrical-optical characteristics

Parameter Laser Diode	Test Condition	Min.	Typ.	Max.
Wavelength	$P_o = 5\text{mW}$	645 nm	650 nm	660 nm
Threshold current	CW		20 mA	35 mA
Laser forward voltage	$P_o = 5\text{mW}$		2.3 V	2.6 V
Parameter Monitordiode	Test Condition	Min.	Typ.	Max.
Monitor current	$P_o = 5\text{mW}$	0.08 mA	0.2 mA	0.4 mA
Parameter Receptacle		Min.	Typ.	Max.
Optical output power (type A)	Singlemode 4/125 μm fiber		1200 μW	
	Multimode 50/125 μm fiber		4000 μW	
Optical output power (type B)	Multimode 9/125 μm fiber		900 μW	
	Multimode 50/125 μm fiber		1000 μW	
Possible receptacle (type A)	ST1, ST2, ST4, P2, LC, SC, FC1, FC2, Fiberdip, SMA1 ¹⁾ , SMA2 ¹⁾			
Possible receptacle (type B)	U2, U3			

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