

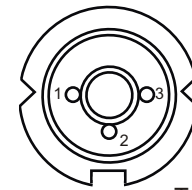
Singlemode - Laser Diode 635 nm

Features of Diode

- 635 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 | 40 °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 | $P_o = 5\text{mW}$ | | 635 nm | 640 nm |
| Threshold current | CW | | 20 mA | 35 mA |
| Laser forward voltage | $P_o = 5\text{mW}$ | | 2.2 V | 2.4 V |
| Parameter Monitordiode | Test Condition | Min. | Typ. | Max. |
| Monitor current | $P_o = 5\text{mW}$ | 0.08 mA | 0.2 mA | 0.5 mA |
| Parameter Receptacle | | Min. | Typ. | Max. |
| Optical output power (type A) | Singlemode 4/125 μm fiber | | 1000 μW | |
| | Multimode 50/125 μm fiber | | 4000 μW | |
| Optical output power (type B) | Multimode 9/125 μm fiber | | 750 μW | |
| | Multimode 50/125 μm fiber | | 800 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)