

785nm 10mW FP SM coaxial laser diode Version: 3.1 17-03-01

Model: LSFLD785-10

Features:

- MQW F-P LD
- Single mode
- Built-in monitor PD
- Metal can type hermetic
- Low threshold/operate current
- High reliable



Applications:

- Optical Sensing
- Industrial automatic control
- Science analysis and experiment
- Test and Measurement Equipment
- Laser range finder

Absolute maximum ratings:

| parameter | symbol | value | unit |
|-----------------------------|----------------|---------|------|
| Operating temperature | Top | -10~+60 | °C |
| Storage temperature | Tstg | -40~+85 | °C |
| Laser diode Reverse voltage | V _r | 2 | V |
| Soldering temperature/time | | 260/10 | °C/S |

Electrical and optical characteristics:(T=25°C)

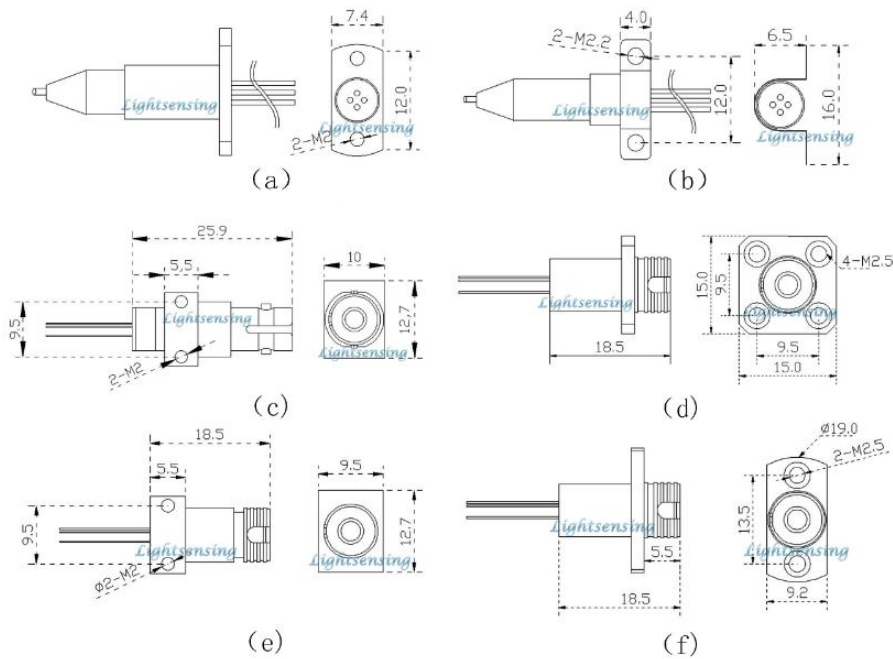
| parameter | symbol | Min. | Typ. | Max. | unit |
|---|---|------|------|------|------|
| Center wavelength | λ | 775 | 785 | 795 | nm |
| Threshold Current | I _{th} | | 20 | 30 | mA |
| Operating Current | I _{op} | | 55 | 75 | mA |
| Spectral width | $\Delta\lambda$ | | 3 | | nm |
| Operating Voltage | V _{op} | | 2.0 | 2.6 | V |
| Light output power(from 9um SM fiber)*1 | P _o (CW) | | 10 | | mW |
| Monitor Output Current | I _m | 0.1 | 0.3 | 0.6 | mA |
| package | Hermetic TO56 Can with fiber coupling or receptacle | | | | |

*1 Note: for 62.5um MM fiber, the output power can double.

For 5um SM fiber (NA =0.13) , the output power can reduce about 50%

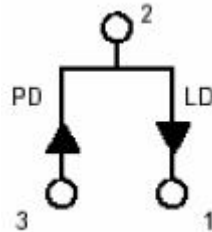
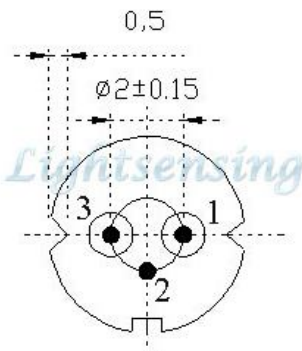
NOTICE: The above product specifications are subject to change without notice.

The package Dimensions



PIN description

Bottom View



| pin | function |
|-----|----------------------------|
| 1 | LD Cathode |
| 2 | LD anode, PD cathode, case |
| 3 | PD anode |

Order information

LSFLD785-X-X

mW
X=10
X=other

- X=a a package with 4um SM, 9um SM or MM Fiber coupling with FC/UPC or FC/APC connector
- X=b b package with 4um SM, 9um SM or MM Fiber coupling with FC/UPC or FC/APC connector
- X=cJKST c package with ST receptacle
- X=dJKFC d package with FC receptacle
- X=e JKFC e package with FC receptacle
- X=f JKFC f package with FC receptacle
- X=Other By customer's request

The cautions

- 1: The above product specifications are subject to change without notice.
- 2: The suitable ESD protection is required in storage, transportation and using
- 3: The fiber bending radius no less than 20mm for avoiding fiber damaged ,Be sure the fiber coupling facet is clean before connecting it to opto-circuit.

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