

850nm 60mW FP SM coaxial laser diode

Version: 3 17-03-01

Model: LSFLD850-60

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)

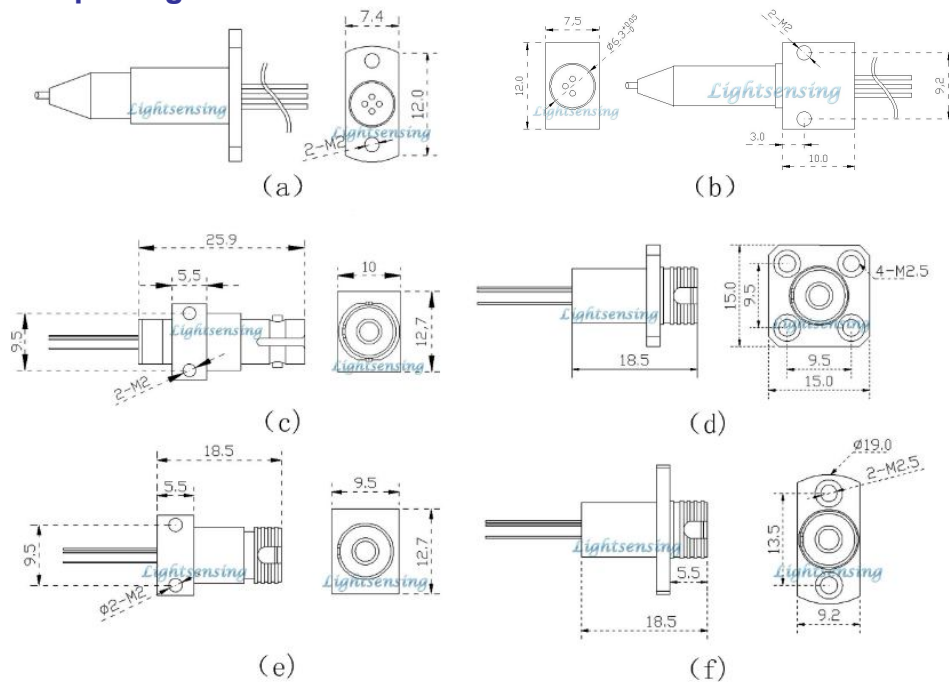
parameter	symbol	Min.	Typ.	Max.	unit
Center wavelength	λ	840	850	860	nm
Threshold Current	I _{th}		40	70	mA
Operating Current	I _{op}	200	240	280	mA
Spectral width	$\Delta\lambda$		3		nm
Operating Voltage	V _{op}	1.8	2.2	2.5	V
Light output power(from 9um SM fiber)*1	P _o (CW)		60		mW
Monitor Output Current	I _m	0.01	0.3	1.5	mA
package	TO18 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%

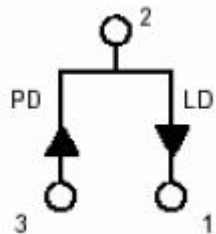
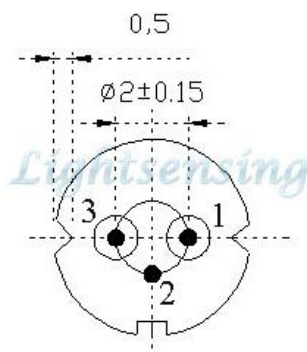
NOTICE: The above product specifications are subject to change without notice.

The package Dimensions



PIN description

Bottom View



pin	function
1	LD Cthode
2	LD anode,PD cathode, case
3	PD anode

Order information

LSFLD850-X-X

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graph TD
    A[ ] --> B[mW]
    A --> C[X=a]
    B --> D[X=60]
    B --> E[X=other]
    C --> F[X=b]
    C --> G[X=c]
    C --> H[X=d]
  
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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 suitable ESD protection is required in storage, transportation and using

2: 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.