

850nm FP Pulse120mW OTDR coaxial laser diode

Version: 3.1 17-03-01

Model: LSPLD850-OT-120

Features:

- MQW F-P LD
- Low threshold/operate current
- High reliable
- Hermetic TO56 can with receptacle or With fiber coupling



Applications:

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

Absolute maximum ratings:

parameter	symbol	value	unit
Operating temperature	Top	-20~+60	°C
Storage temperature	Tstg	-40~+85	°C
Laser diode Reverse voltage	V _r	2	V
Soldering temperature/time		260/10	°C/S

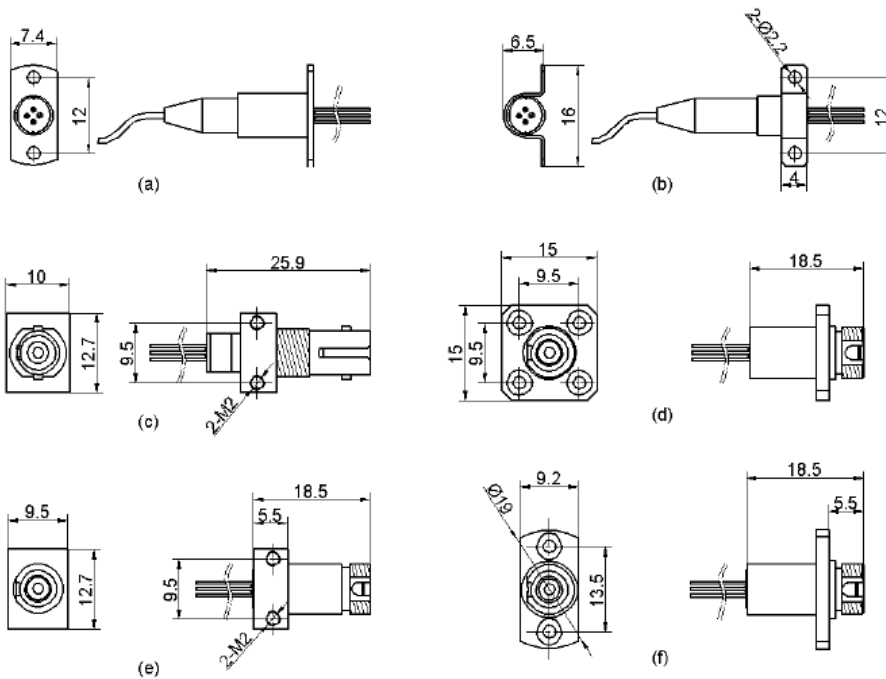
Electrical and optical characteristics:(T=25°C)

parameter	symbol	Min.	Typ.	Max.	unit
Center wavelength	λ	830	850	870	nm
Threshold Current	I _{th}		35	70	mA
Pulse Operating Current	I _{op}		280	450	mA
Spectral width	$\Delta\lambda$		8		nm
Rise time/fall time	Tr/Tf		1		ns
Operating Voltage	V _{op}		2.5	3.2	V
Light output power(from 62.5um MM fiber)	Po(pulse)		120		mW
package	Hermetic TO56 can with receptacle or With fiber coupling				

Note: All above values are for operation @ 25°C. If not otherwise stated, the characteristics are for operation under pulse current (pulse width = 10us and duty cycle 1 %).

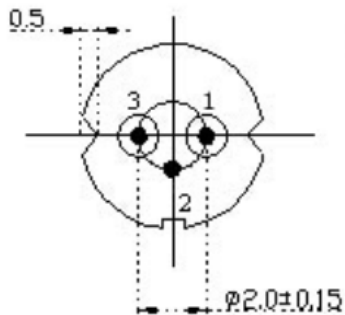
NOTICE: The above product specifications are subject to change without notice.

The package Dimensions



PIN description

Bottom View



pin	function
1	LD Cathode
2	LD anode, case
3	

Order information

LSPLD850-OT-X-X

mW	X=a	a package with 50um or 62.5um MM Fiber coupling with FC/UPC or FC/APC connector
X=120	X=b	b package with 50um or 62.5um MM Fiber coupling with FC/UPC or FC/APC connector
X=other	X=c	c package with ST receptacle
	X=d	d package with FC receptacle
	X=e	e package with FC receptacle
	X=f	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.