905nm 10W FP MM coaxial pulse laser diode Version: 3.1 17-06-01

Model: LSPLD905-10W

Features:

- MQW F-P pulse LD
- Multiple mode
- Low threshold/operate current
- Metal can type non-hermetic
- High reliable

Applications:

- laser range finding,
- laser radar
- laser guard
- Industrial automatic control
- Science analysis and experiment
- Test and Measurement Equipment

Absolute maximum ratings:

parameter	symbol	value	unit
Operating temperature	Top	-40～+70	℃
Storage temperature	Tstg	-40～+85	℃
Laser diode forward current	I_f	15	A
Laser diode Reverse voltage	V_r	3	V
Soldering temperature/time		260/10	℃/S

Electrical and optical characteristics:(T=25℃)

parameter	symbol	Min.	Typ,	Max.	unit
Center wavelength	λ	895	905	915	nm
Threshold Current	Ith		0.75	1	A
Operating Current	Iop		10	13	A
Operating Voltage	Vop		14	16	V
Spectral width	Δλ		7		nm
Light output power(from 62.5um MM fiber)	Po(pulse)		10		W
Rise time	t_r/t_f		1		ns
Pulse width	t_p			100	ns
Duty cycle				0.1	%
Temperature coefficient of wavelength			0.27		nm/℃
Temperature coefficient of optical power			-0.4		%/℃
package	non-hermetic TO-5 Can with fiber coupling				

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

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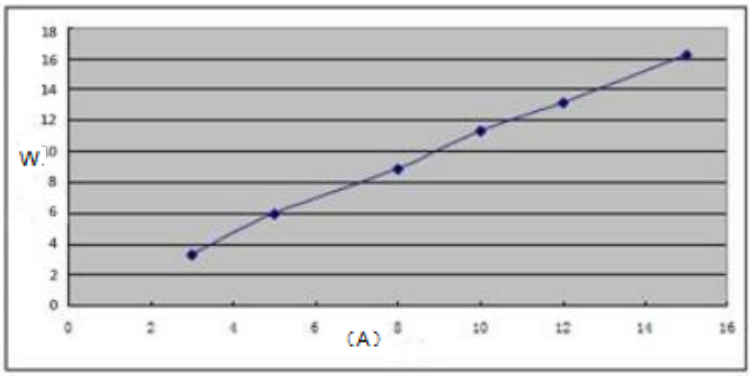
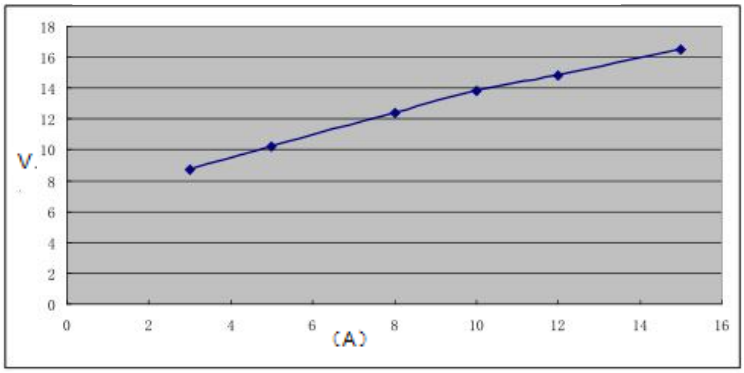
The typical curve

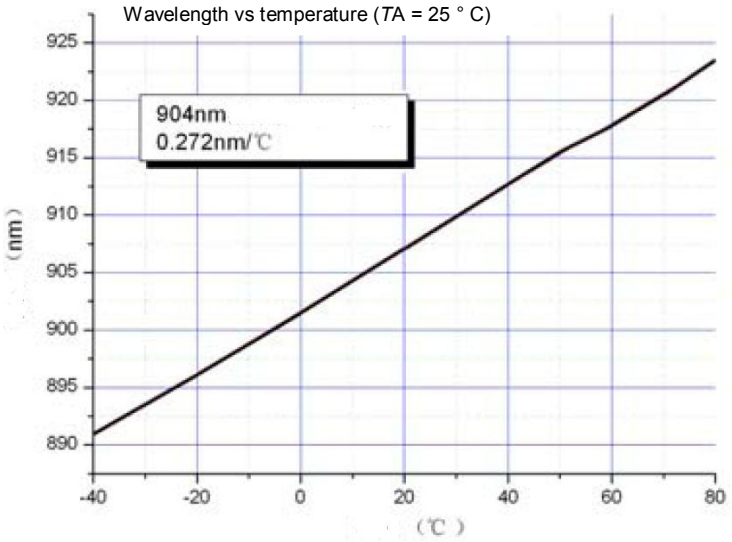
Optical output power *P*opt andvs. forward current *I*F (*T*A = 25 ° C)



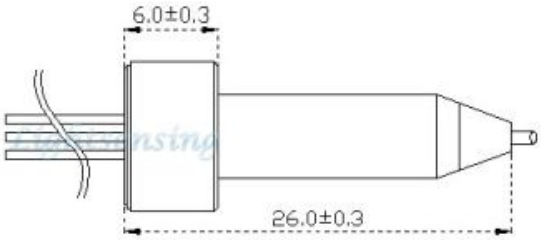
Forward voltage *V*F vs. forward current *I*F (*T*A = 25 ° C)

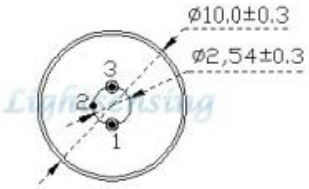


Wavelength vs temperature (*T*A = 25 ° C)



The package Dimensions and PIN description





Bottom View

pin	function
1	LD Anode
2	Case
3	LD cathode

Order information

LSPLD905-X-X

X=10W	X=6MMFP	62.5um (NA0.27) MM Fiber coupling with FC/PC connector
X=other	X=6MMFA	62.5um (NA0.27) MM Fiber coupling with FC/APC connector
	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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