905nm 50W FP MM coaxial pulse laser diode version: 3.1 17-06-01

Model: LSPLD905-50W

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	Тор	-40~+70	$^{\circ}$ C
Storage temperature	Tstg	-40~+85	$^{\circ}$ C
Laser diode forward current	If	40	Α
Laser diode Reverse voltage	V _r	3	V
Soldering temperature/time		260/10	°C/S

Electrical and optical characteristics:(T=25℃)

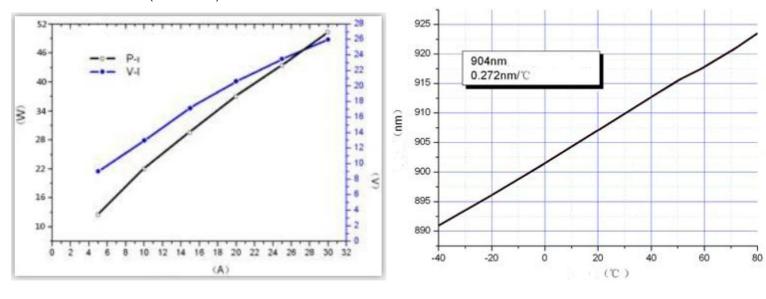
parameter	symbol	Min.	Тур,	Max.	unit	
Center wavelength	λ	895	905	915	nm	
Threshold Current	Ith		0.75	1	Α	
Operating Current	lop		27	30	Α	
Operating Voltage	Vop		24	26	V	
Spectral width	Δλ		7		nm	
Light output power(from 200um MM fiber)	Po(pulse)		50		W	
Rise time	t _r /t _f		1		ns	
Pulse width	t _p			100	ns	
Duty cycle				0.1	%	
Temperature coefficient of wavelength			0.27		nm/℃	
Temperature coefficient of optical power			-0.4		%/°C	
package	non-hermetic TO-5 Can with fiber coupling					

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

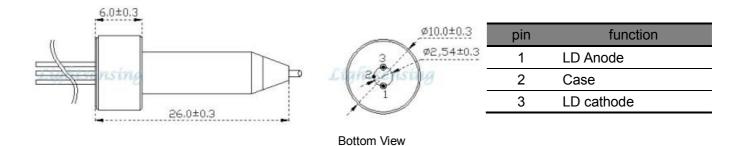
The typical curve

Optical output power *P*opt, Forward voltage *V*F vs. forward current *I*F ($TA = 25 \degree C$)

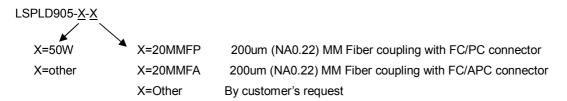
Wavelength vs temperature (TA = 25 ° C)



The package Dimensions and PIN description



Order information



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.