

1.2mm Silicon PIN photodiode

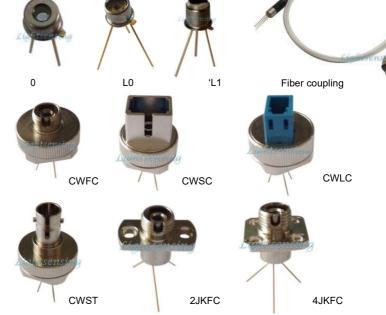
Model: LSSPD-1.2

Features:

- High reliability, low dark current
- 400-1100nm spectral range
- 1064nm responsivity up to 0.27mA/mW
- Active diameter 1.2x1.2mm
- Hermetic TO46 Can or with receptacle or with fiber coupling

Applications:

- Optical sensor and Optical power meter
- Laser finding range and laser lidar
- Industrial automatic control
- IR/ Laser light Monitoring
- Fluorescence detector
- Medical equipment



Absolute maximum ratings:

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parameter	symbol	value	unit		
Operating temperature	Тор	-40∼+85	$^{\circ}$		
Storage temperature	Tstg	-40~+100	$^{\circ}$		
Forward current	If	10	mA		
Reverse voltage	Vr	30	V		
Soldering temperature(time)	Ts (10s)	260	$^{\circ}$		

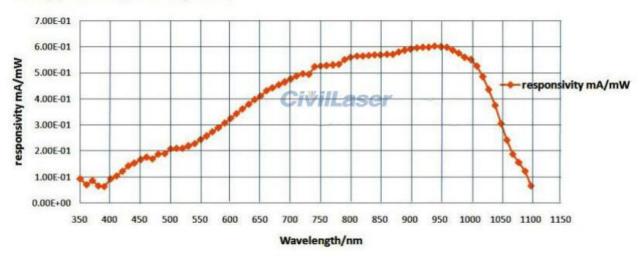
Electrical and optical characteristics:(T=25°C)

parameter	symbol	unit	Value(Typ.)
Active diameter	Ф	mm	1.2x1.2
Spectral range	λ	nm	400-1100
Responsivity	Re(V _R =5V,λ=405nm)	mA/mW	0.15
	Re(V _R =5V,λ=650nm)	mA/mW	0.30
	Re(V _R =5V,λ=850nm)	mA/mW	0.55
	Re(V _R =5V,λ=1064nm)	mA/mW	0.27
Response time	Tr (R _L =50 Ω ,V _R =5V)	ns	1.4
Dark current	Id(VR=0V)	рА	0.2
	Id(VR=5V)	рА	60
Reverse Breakdown voltage	VBR (IR=10uA)	V	80
Junction capacitance	Cj (f=1MHz, V _R =0V)	pF	50
	Cj (f=1MHz, V _R =5V)	pF	6

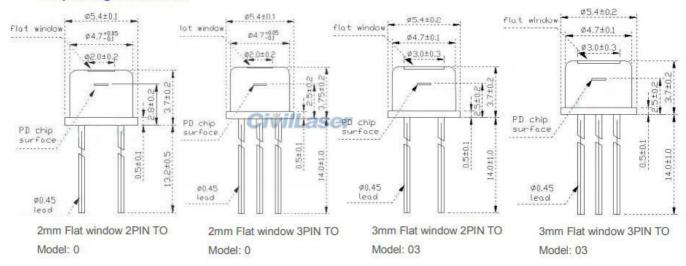
Saturated Optical Power	Ps(VR =5V)	mW	15
Operating voltage	V _R	V	0-20
Shunt resistance	Rsh (VR=10mV)	GΩ	50
package	Hermetic TO46 Can or with receptacle or with fiber coupling		

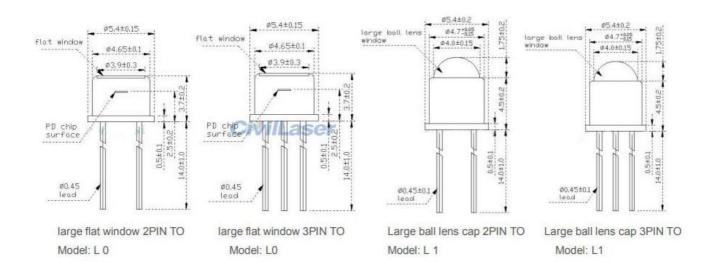
NOTICE: The above product specifications are subject to change without notice.

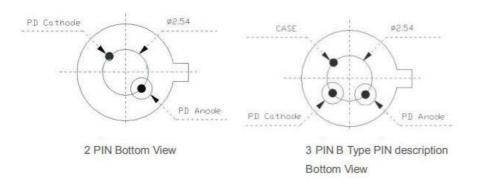
The typical Responsivity curve



TO package and Lead

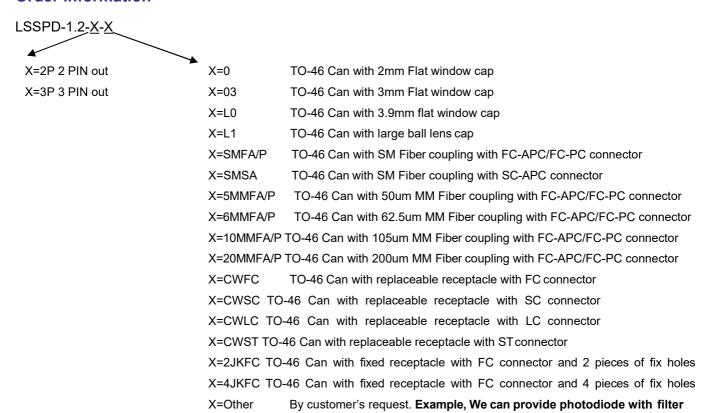






Note: In order to get other dimensions, please contact us.

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.