

2.5mm Silicon PIN photodiode

Model: LSSPD-2.5

Features:

- High reliability, low dark current
- 400-1100nm spectral range
- 650nm responsivity up to 0.44mA/mW
- Active diameter 2.5x2.5mm
- Hermetic TO5 Can or with receptacle

Applications:

- Optical sensor and Optical power meter
- Industrial automatic control
- IR/ Laser light Monitoring
- Fluorescence detector
- Medical equipment
- Spectrophotometry/CT scan











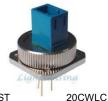












Absolute maximum ratings:

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

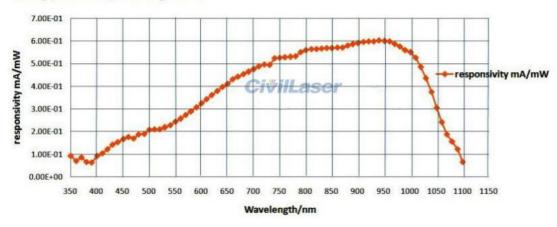
Electrical and optical characteristics:(T=25°C)

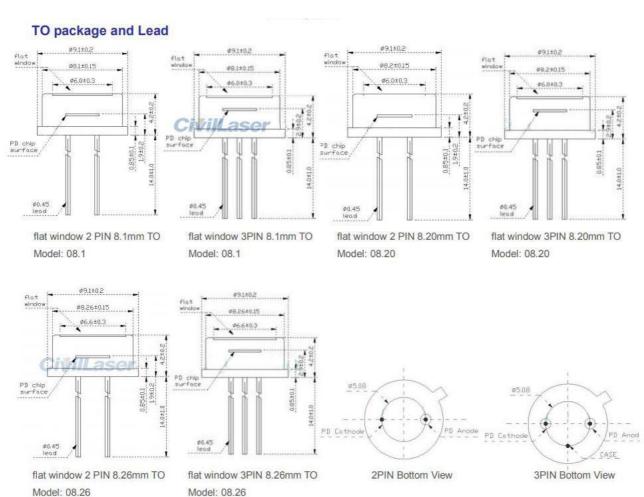
•	, ,		
parameter	symbol	unit	Value(Typ.)
Active diameter	Ф	mm	2.5x2.5
Spectral range	λ	nm	400-1100
Responsivity	Re(V _R =5V,λ=405nm)	mA/mW	0.07
	Re(V _R =5V,λ=650nm)	mA/mW	0.44
	Re(V _R =5V,λ=850nm)	mA/mW	0.59
	Re(V _R =5V,λ=1064nm)	mA/mW	0.25
Response time	Tr (R _L =50Ω,V _R =5V)	ns	5
Dark current	Id(V _R =0V)	pA	0.5
	Id(VR=5V)	рА	200
Reverse Breakdown voltage	VBR (IR=10uA)	V	70
Junction capacitance	Cj (f=1MHz, V _R =0V)	pF	90
	Cj (f=1MHz, VR=5V)	pF	20

Saturated Optical Power	Ps(V _R =5V)	mW	20
Operating voltage	V _R	V	0-15
Shunt resistance	Rsh (VR=10mV)	GΩ	20
package	Hermetic TO5 Can or with receptacle		

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

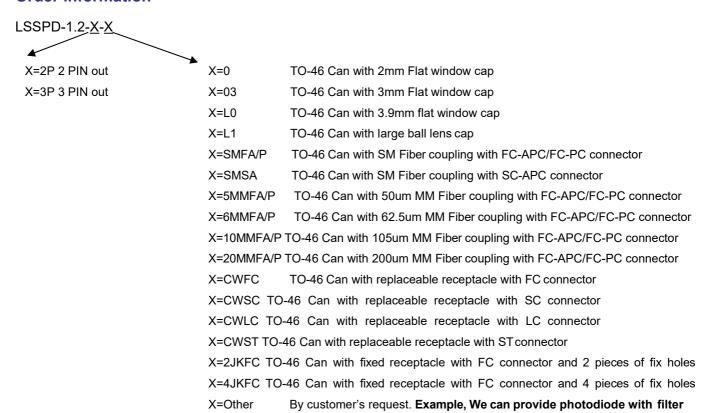
The typical Responsivity curve





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.