

1.2mm UV Silicon PIN photodiode

Version: 3.1 17-03-01

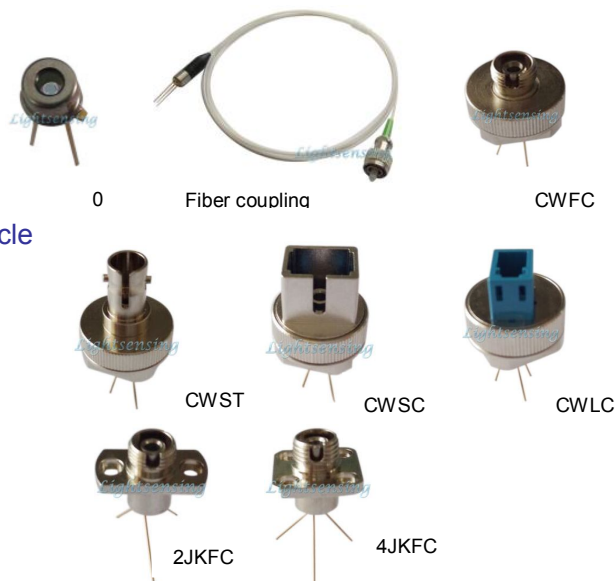
Model: LSSPD-U1.2

Features:

- High reliability, low dark current
- 200-1100nm spectral range
- Active diameter 1.2x1.2mm
- Hermetic TO46 Can with UV window or with receptacle

Applications:

- Optical sensor
- Optical power meter
- Industrial automatic control
- Science analysis and experiment
- Space light detect equipment
- Response spectrum testing



Absolute maximum ratings:

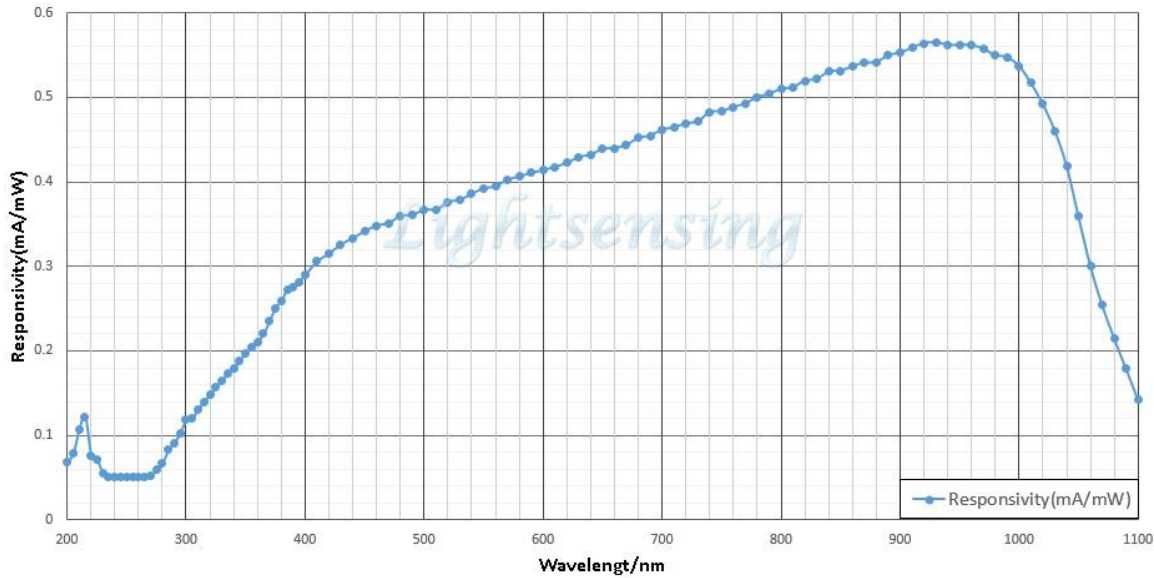
parameter	symbol	value	unit
Operating temperature	Top	-40~+85	℃
Storage temperature	Tstg	-40~+100	℃
Forward current	If	10	mA
Reverse voltage	V _r	20	V
Soldering temperature(time)	Ts (10s)	260	℃

Electrical and optical characteristics:(T=25℃)

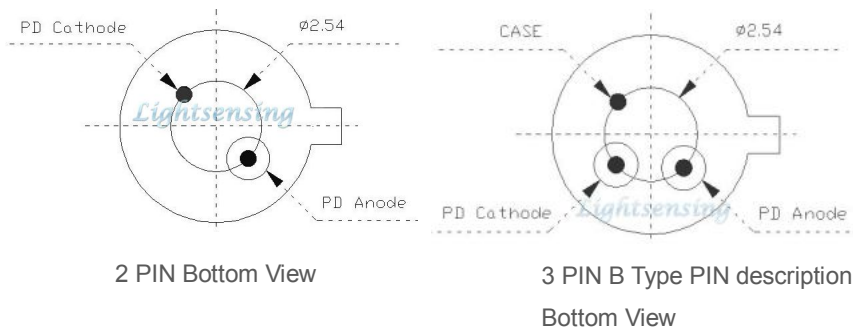
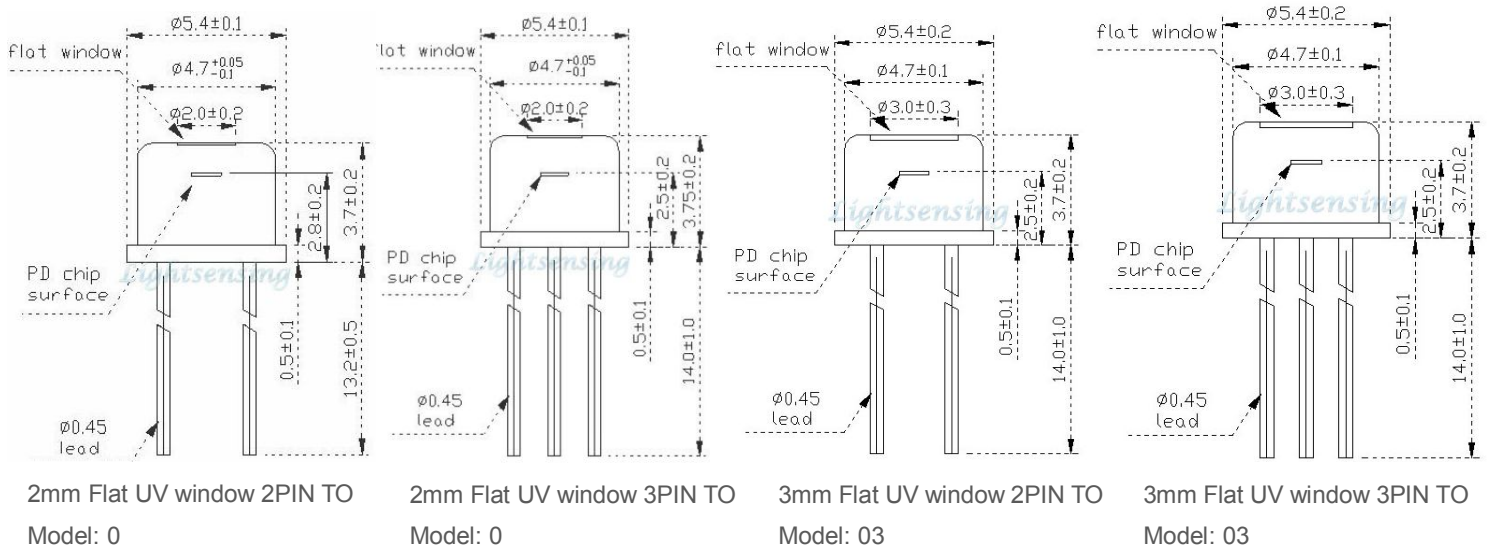
parameter	symbol	unit	Value (typ.)
Active diameter	Φ	mm	1.2x1.2
Spectral range	λ	nm	200-1100
Responsivity	Re(V _R =0V,λ=200nm)	mA/mW	0.08
	Re(V _R =0V,λ=405nm)	mA/mW	0.28
	Re(V _R =0V,λ=650nm)	mA/mW	0.43
	Re(V _R =0V,λ=905nm)	mA/mW	0.55
	Re(V _R =0V,λ=1064nm)	mA/mW	0.22
Response time	Tr (R _L =50Ω, V _R =5V)	ns	8
Dark current	Id(V _R =0V)	pA	0.2
	Id(V _R =5V)	pA	100
Reverse Breakdown voltage	V _{BR} (I _R =10uA)	V	40
Junction capacitance	Cj (f=1MHz, V _R =0V)	pF	190
	Cj (f=1MHz, V _R =5V)	pF	40
Saturated Optical Power	Ps(V _R =5V)	mW	15
Operating voltage	V _R	V	0-15
Shunt resistance	R _{sh} (V _R =10mV)	GΩ	50
package	Hermetic TO46 Can with UV window or with receptacle or 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

LSSPD-U1.2-X-X

X=2P 2 PIN out

X=3P 3 PIN out

X=0

TO-46 Can with 2mm UV window cap

X=03

TO-46 Can with 3mm UV window cap

X=SMFA/P

TO-46 Can with SM Fiber coupling with FC-APC/FC-PC connector

X=SMSA

TO-46 Can with SM Fiber coupling with SC-APC connector

X=5MMFA/P

TO-46 Can with 50um MM Fiber coupling with FC-APC/FC-PC connector

X=6MMFA/P

TO-46 Can with 62.5um MM Fiber coupling with FC-APC/FC-PC connector

X=10MMFA/P

TO-46 Can with 105um MM Fiber coupling with FC-APC/FC-PC connector

X=20MMFA/P

TO-46 Can with 200um MM Fiber coupling with FC-APC/FC-PC connector

X=CWFC

TO-46 Can with replaceable receptacle with FC connector

X=CWSC

TO-46 Can with replaceable receptacle with SC connector

X=CWLC

TO-46 Can with replaceable receptacle with LC connector

X=CWST

TO-46 Can with replaceable receptacle with ST connector

X=2JKFC

TO-46 Can with fixed receptacle with FC connector and 2 pieces of fix holes

X=4JKFC

TO-46 Can with fixed receptacle with FC connector and 4 pieces of fix holes

X=Other

By customer's request. **Example, We can provide photodiode with filter.**

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.