

## 2.5mm UV Silicon PIN photodiode

Model: LSSPD-U2.5

V4.2UVPD-003 2022-01-01

### 1.Features

- High reliability, Ultra low dark current
- 200-1100nm spectral range
- Active diameter 2.5x2.5mm
- Hermetic TO5 Can with UV glass window or with receptacle

### 2.Applications

- Optical sensor
- Environmental protection
- Fluorescence detector
- Medical equipment
- Response spectrum testing
- Optical power meter

### 3.Picture



### 4.The absolute values

parameter	symbol	value	unit
Operating temperature	Top	-40~+85	°C
Storage temperature	Tstg	-40~+100	°C
Reverse voltage	Vr	20	V
Soldering temperature(time)	Ts (10s)	260	°C

### 5.The opto-eletronic characteristics (T=22±3°C)

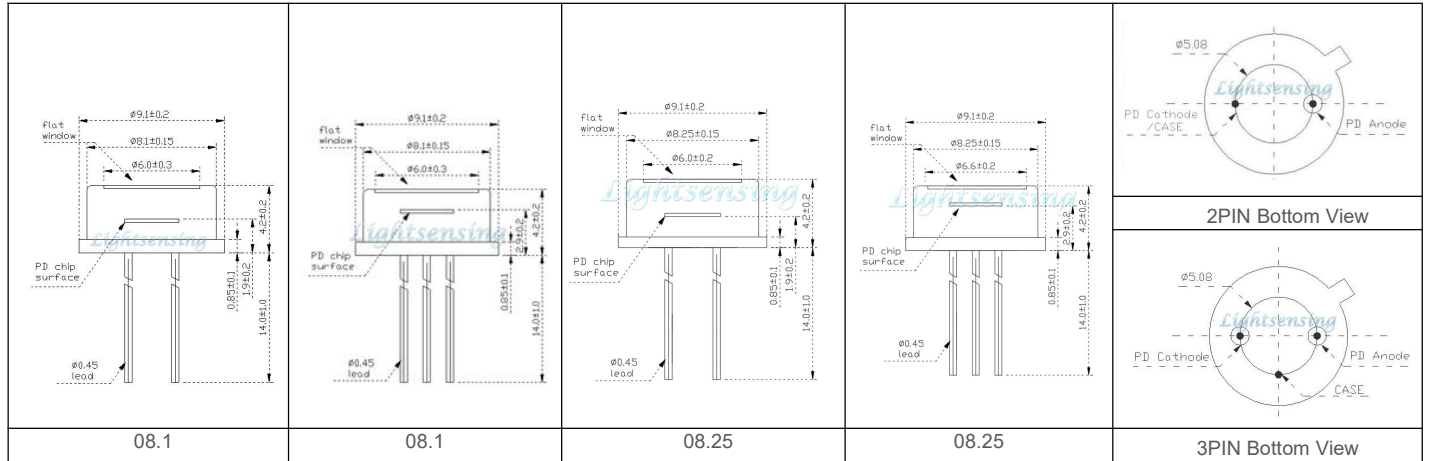
parameter	symbol	unit	Value (typ.)
Active diameter	$\Phi$	mm	2.5x2.5
Spectral range	$\lambda$	nm	200-1100
Responsivity	Re(Vr=5V, $\lambda$ =200nm)	mA/mW	0.08
	Re(Vr=5V, $\lambda$ =405nm)	mA/mW	0.26
	Re(Vr=5V, $\lambda$ =650nm)	mA/mW	0.40
	Re(Vr=5V, $\lambda$ =940nm)	mA/mW	0.55
	Re(Vr=5V, $\lambda$ =1064nm)	mA/mW	0.22
Response time	Tr (RL=50 $\Omega$ , Vr=5V)	ns	100
Dark current	Id(Vr=0V)	pA	2
	Id(Vr=5V)	nA	0.4
Reverse Breakdown voltage	VBR (Id=10uA)	V	60
Toatl capacitance	Cj (f=1MHz, Vr=0V)	pF	1000
	Cj (f=1MHz, Vr=5V)	pF	70
Saturated optical Power	Ps(Vr=5V)	mW	25
Reverse operating voltage	Vr	V	0-15V
Shunt resistance	Rsh (Vr=10mV)	G $\Omega$	2
Package	Hermetic TO5 Can with UV glass window or with receptacle		

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

### The typical Responsivity curve



### 6. The package Dimensions and Lead



**Note:** For more information on dimension, please contact us

### 7. Order information

TO5 Can product order information: LS=LightSensing				
LS	SPD	-U2.5	-2P	-08.25
	PD type	Active Area	PIN	Cap type
	SPD= Si PD	2.5=2.5x2.5mm	2P=2 PIN 3P=3 PIN Type Other	08.1=flat UV glass window $\varnothing 8.1$ mm nickel-plated cap 08.25=flat UV glass window $\varnothing 8.25$ mm nickel-plated cap Other
Receptacle product order information: LS=LightSensing				
LS	SPD	-U2.5	-3P	-CWFC
	PD type	Active Area	PIN	Receptacle type
	SPD= Si PD	2.5=2.5x2.5mm	2P=2 PIN 3P=3 PIN Type Other	CWFC=replaceable receptacle with FC connector CWSC=replaceable receptacle with SC connector CWLC=replaceable receptacle with LC connector CWST=replaceable receptacle with ST connector Other

### 8. The cautions !

- 1: The above product specifications are subject to change without notice.
- 2: The suitable ESD protecting measures are recommend in storage, transporting and using.

