

## 6mm UV Silicon PIN photodiode

Model: LSSPD-U6

V4.2UVPD-0061 2022-01-01

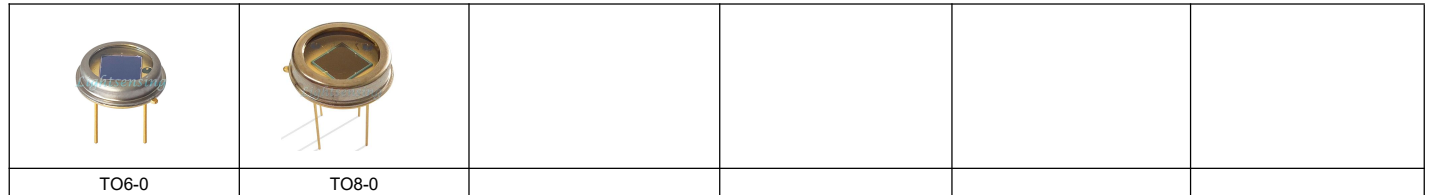
### 1.Features

- High reliability, Ultra low dark current
- 200-1100nm spectral range
- Active diameter 6x6mm
- Hermetic TO6 or TO8 Can package with UV glass window

### 2.Applications

- Optical sensor
- Environmental protection
- Fluorescence detector
- Medical equipment
- Response spectrum testing
- Spectrophotometry/CT scan

### 3.Picture



### 4.The absolute values

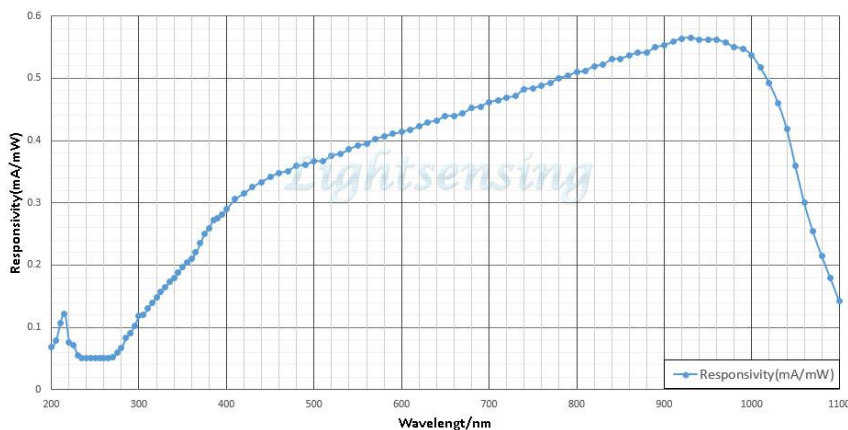
parameter	symbol	value	unit
Operating temperature	Top	-40~+85	℃
Storage temperature	Tstg	-45~+125	℃
Reverse voltage	Vr	15	V
Soldering temperature(time)	Ts(10s)	260	℃

### 5.The opto-electronic characteristics (T=22±3℃)

parameter	symbol	unit	Value (typ.)
Active diameter		mm	6×6
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
Dark current	Id(Vr=0V)	pA	5
	Id(Vr=5V)	nA	1.2
Reverse Breakdown voltage	VBR (Id=10uA)	V	60
Total capacitance	Cj (f=1MHz, Vr=0V)	pF	2000
	Cj (f=1MHz, Vr=5V)	pF	200
Saturated optical Power	Ps(Vr=5V)	mW	25
Reverse operating voltage	Vr	V	0-15
Shunt resistance	Rsh (Vr=10mV)	MΩ	200
Package	Hermetic TO6 or TO8 Can package with UV glass window		

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

### The typical Responsivity curve



**6. The package Dimensions and Lead**

TO6-0	TO6 Bottom View	TO8-0	TO8 Bottom View

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

**7. Order information**
**TO6 Can product order information: LS= Lightsensing**

LS	SPD	-U6	-2P	-0
	PD type	Active Area	PIN	Cap type
	SPD= Si PD	6=6X6mm	2P=2 PIN Other	0=flat UV glass window nickel-plated cap Other

**TO8 Can product order information: LS= Lightsensing**

LS	SPD	-U6	-0
	PD type	Active Area	Cap type
	SPD= Si PD	6=6X6mm	0=flat UV glass window nickel-plated cap 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.

