

6mm UV Silicon PIN photodiode

Model: LSSPD-U6

V4.2UVPD-0061 2022-01-01

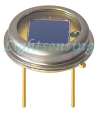
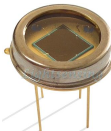
1.Features

- 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

					
TO6-0	TO8-0				

4.The absolute values

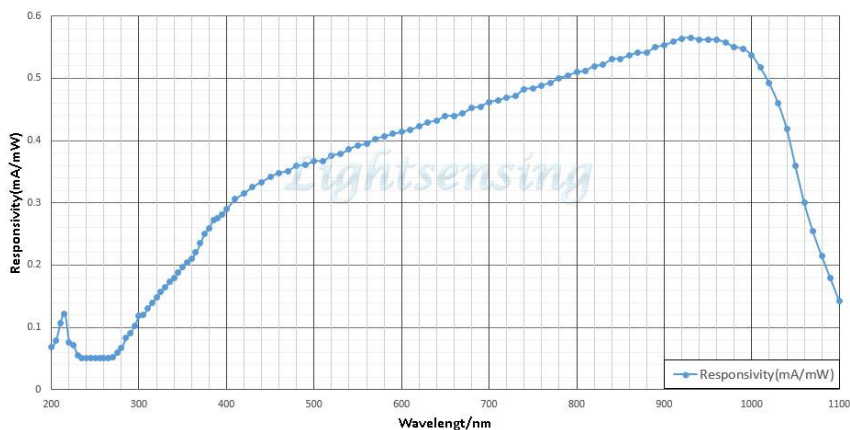
parameter	symbol	value	unit
Operating temperature	Top	-40~+85	℃
Storage temperature	Tstg	-45~+125	℃
Reverse voltage	Vr	15	V
Soldering temperature(time)	Ts(10s)	260	℃

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

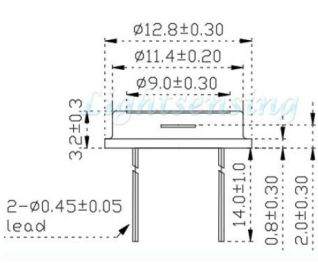
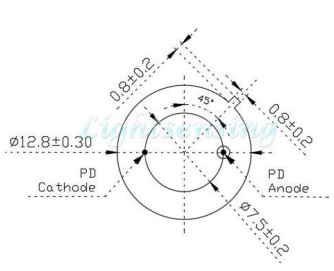
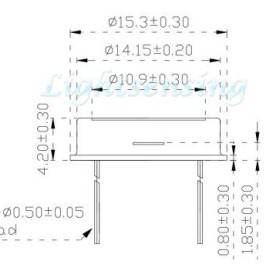
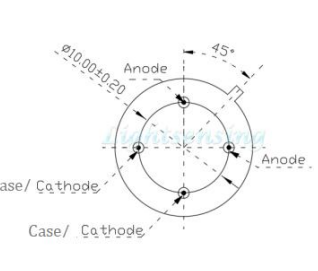
parameter	symbol	unit	Value (typ.)
Active diameter		mm	6×6
Spectral range	λ	nm	200-1100
Responsivity	Re(Vr=5V, λ =200nm)	mA/mW	0.08
	Re(Vr=5V, λ =405nm)	mA/mW	0.26
	Re(Vr=5V, λ =650nm)	mA/mW	0.40
	Re(Vr=5V, λ =940nm)	mA/mW	0.55
	Re(Vr=5V, λ =1064nm)	mA/mW	0.22
Dark current	Id(Vr=0V)	pA	5
	Id(Vr=5V)	nA	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

 Diagram showing the dimensions of the TO6-0 package. Key dimensions include: top diameter $\phi 12.8 \pm 0.30$, inner diameter $\phi 11.4 \pm 0.20$, lead diameter $\phi 9.0 \pm 0.30$, lead length $2 - \phi 0.45 \pm 0.05$, total height 14.0 ± 1.0, and base diameter $\phi 7.5 \pm 0.2$.	 Diagram showing the bottom view of the TO6 package. It features a central circular area with a diameter of $\phi 12.8 \pm 0.30$. There are two circular pads labeled "PD Cathode" and "PD Anode", each with a diameter of $\phi 0.8 \pm 0.2$. The distance between the centers of these pads is $\phi 7.5 \pm 0.2$. A 45-degree angle is indicated for the lead placement.	 Diagram showing the dimensions of the TO8-0 package. Key dimensions include: top diameter $\phi 15.3 \pm 0.30$, inner diameter $\phi 14.15 \pm 0.20$, lead diameter $\phi 10.9 \pm 0.30$, lead length $4 - \phi 0.50 \pm 0.05$, total height 18.5 ± 0.30, and base diameter $\phi 7.5 \pm 0.2$.	 Diagram showing the bottom view of the TO8 package. It features a central circular area with a diameter of $\phi 10.00 \pm 0.20$. There are four circular pads labeled "Anode" and "Case/ Cathode", each with a diameter of $\phi 0.8 \pm 0.2$. The distance between the centers of these pads is $\phi 7.5 \pm 0.2$. A 45-degree angle is indicated for the lead placement.
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=Lightensing

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=Lightensing

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.

