

6mm Silicon PIN photodiode

Model: LSSPD-6

V4.2SWPD-0081 2022-01-01

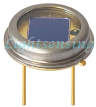
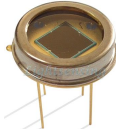
1.Features

- High reliability, Ultra low dark current
- 400-1100nm spectral range
- Active diameter 6x6mm
- Hermetic TO6 or TO8 Can package

2.Applications

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

3.Picture

					
TO6-0	TO8-0				

4.The absolute values

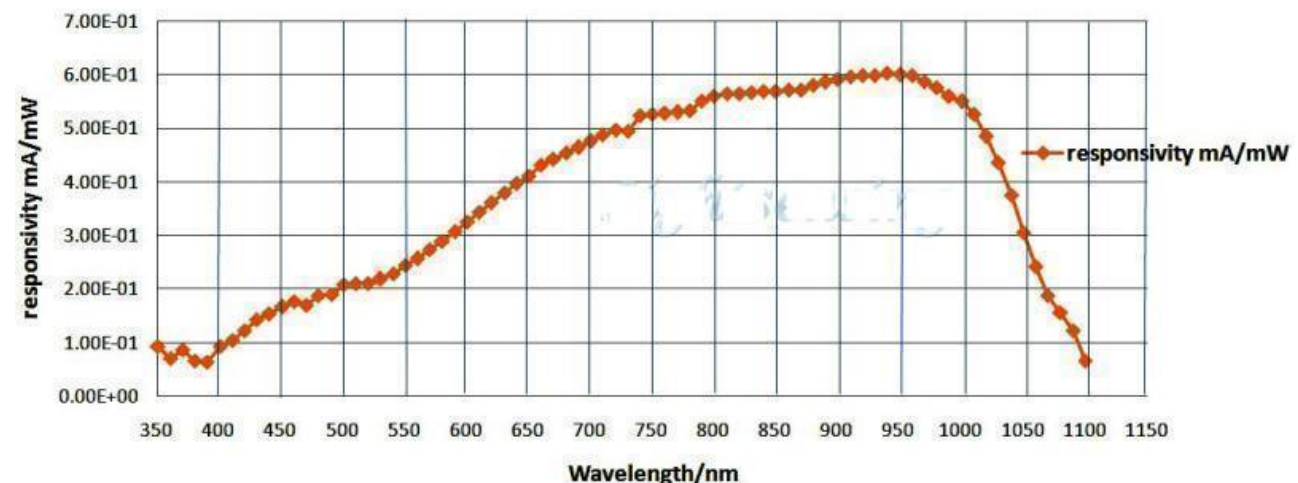
parameter	symbol	value	unit
Operating temperature	Top	-40~+85	℃
Storage temperature	Tstg	-45~+125	℃
Reverse voltage	Vr	15	V
Soldering temperature(time)	Ts(10s)	260	℃

5.The opto-eletronic characteritics (T=22±3℃)

parameter	symbol	unit	Value (typ.)
Active diameter		mm	6×6
Spectral range	λ	nm	400-1100
Responsivity	Re(Vr=5V, λ =405nm)	mA/mW	0.07
	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	0.20
Dark current	Id(Vr=0V)	pA	5
	Id(Vr=5V)	nA	1.2
Reverse Breakdown voltage	V _{BR} (Id=10uA)	V	60
Total capacitance	Cj (f=1MHz, Vr=0V)	pF	2000
	Cj (f=1MHz, Vr=5V)	pF	100
Saturated optical Power	Ps(Vr=0V)	mW	5
	Ps(Vr=5V)	mW	25
Reverse operating voltage	Vr	V	0-10
Shunt resistance	Rsh (Vr=10mV)	MΩ	200
Package	Hermetic TO6 or TO8 Can package		

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=Lightensing

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

TO8 Can product order information:LS=Lightensing

LS	SPD	-6	-0
	PD type	Active Area	Cap type
	SPD=Si PD	6=6X6mm	0=flat 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.

