

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

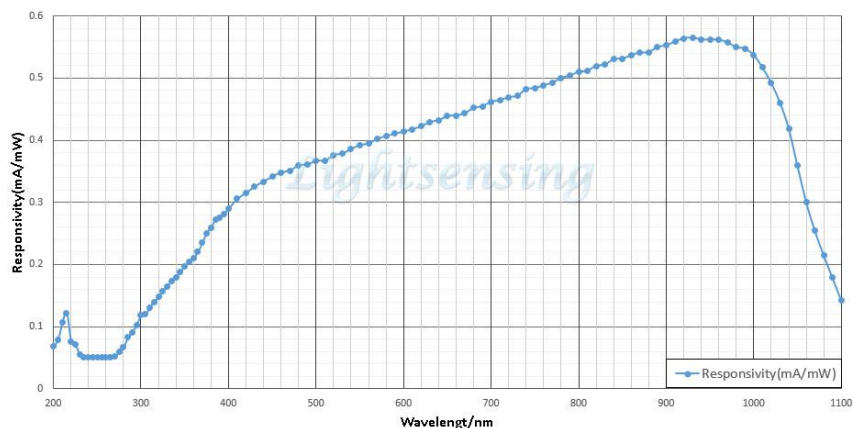
parameter	symbol	value	unit
Operating temperature	Top	-40~+85	°C
Storage temperature	Tstg	-40~+100	°C
Reverse voltage	Vr	20	V
Soldering temperature(time)	Ts (10s)	260	°C

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

parameter	symbol	unit	Value (typ.)
Active diameter	Φ	mm	2.5x2.5
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
Response time	Tr (RL=50 Ω , 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 Ω	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

08.1	08.1	08.25	08.25	2PIN Bottom View
				3PIN Bottom View

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 Ø8.1mm nickel-plated cap 08.25=flat UV glass window Ø8.25mm 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.

