

10mm UV Silicon PIN photodiode Ceramic package

Model: LSSPD-U10

V4.2UVPD-007 2022-01-01

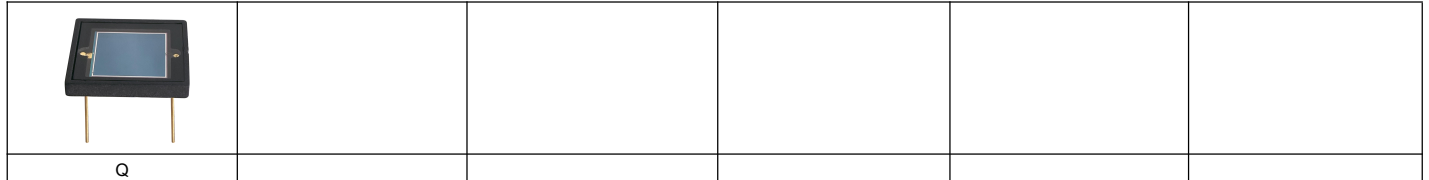
1.Features

- High reliability, Ultra low dark current
- 200-1100nm spectral range
- Active diameter 10x10mm
- Non-hermetic Ceramic package with quartz glass window

2.Applications

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

3.Picture



4.The absolute values

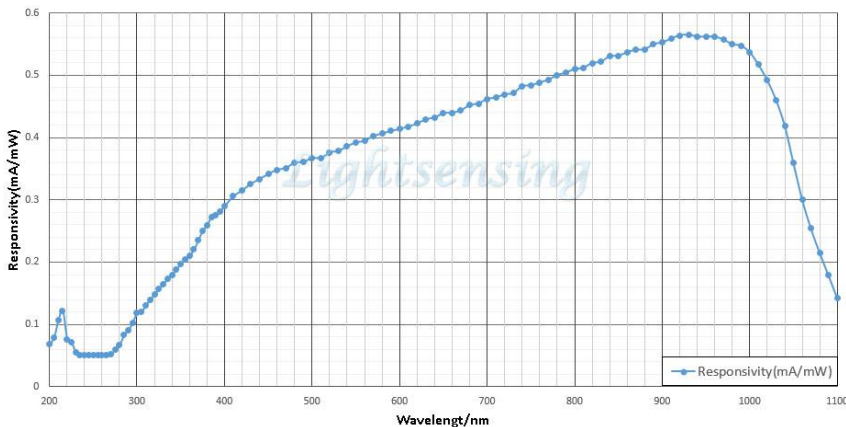
parameter	symbol	value	unit
Operating temperature	Top	-20~+60	℃
Storage temperature	Tstg	-20~+80	℃
Reverse voltage	Vr	15	V
Soldering temperature(time)	Ts(10s)	260	℃

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

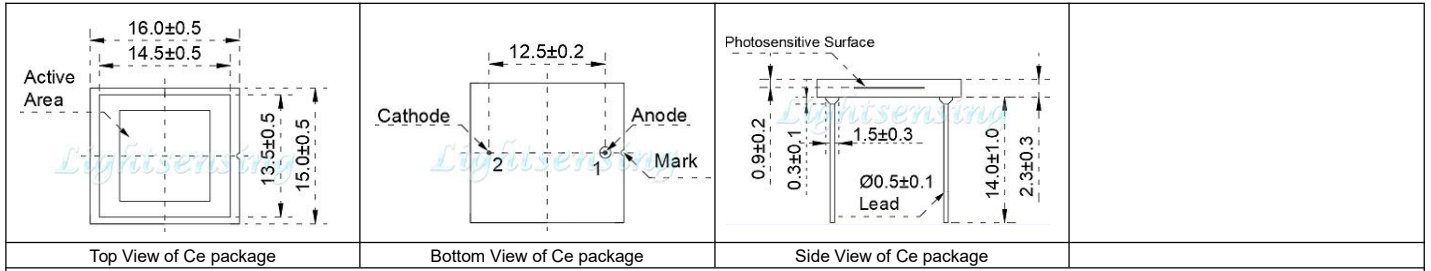
parameter	symbol	unit	Value (typ.)
Active diameter		mm	10×10
Spectral range	λ	nm	200-1100
Responsivity	Re(Vr=5V, λ =200nm)	mA/mW	0.08
	Re(Vr=5V, λ =405nm)	mA/mW	0.26
	Re(Vr=5V, λ =650nm)	mA/mW	0.40
	Re(Vr=5V, λ =940nm)	mA/mW	0.55
	Re(Vr=5V, λ =1064nm)	mA/mW	0.22
Dark current	Id(0V)	pA	10
	Id(5V)	nA	2
Reverse Breakdown voltage	V _{BR} (Id=10uA)	V	60
Total capacitance	Cj (f=1MHz, Vr=0V)	pF	3000
	Cj (f=1MHz, Vr=5V)	pF	500
Saturated Optical Power	Ps(Vr=5V)	mW	25
Reverse operating voltage	Vr	V	0-15
Shunt resistance	Rsh (Vr=10mV)	MΩ	100
Package	Non-hermetic Ceramic package with quartz glass window		

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

Ceramic package product order information: LS= Lightsensing

LS	SPD	-U10	-Ce	-Q
	PD type	Active Area	package	
	SPD= Si PD	10=10X10mm	Ce=Ceramic package	Q=quartz glass window 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.

