

5mm InGaAs PIN photodiode

Model: LSIPD-L5

V4.2LIPD-011 2022-01-01

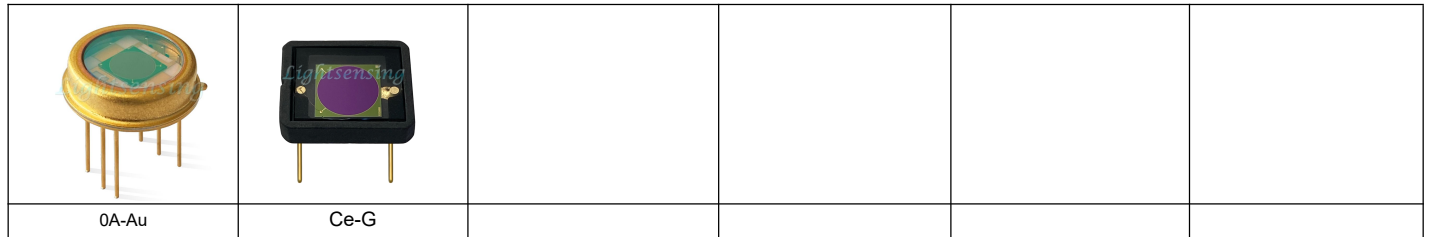
1.Features

- High reliability, low dark current
- Top illumination Planar PIN PD
- 800-1700nm spectral range
- Active diameter 5mm
- Hermetic TO8 Can or non-hermetic Ceramic package with Epoxy Resin or Optical Glass window

2.Applications

- Gas sensor
- Optical sensor
- Optical power meter
- Industrial automatic control
- Space light detect equipment
- Response spectrum testing

3.Picture



4.Absolute maximum ratings:

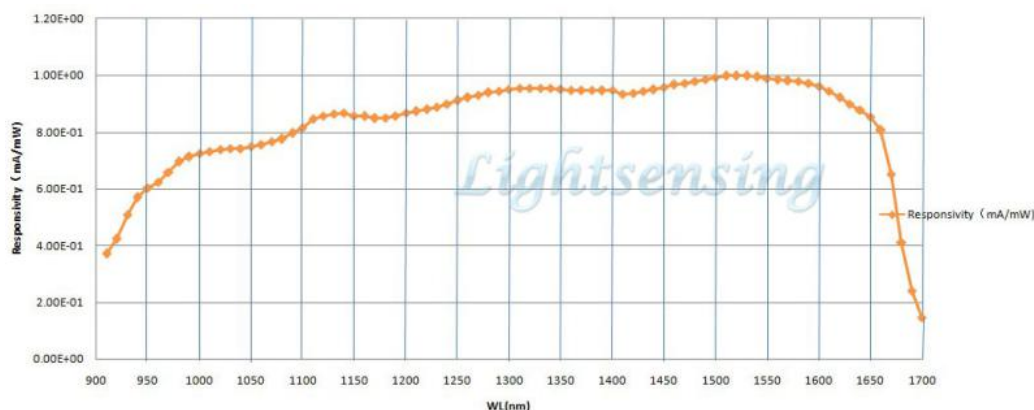
parameter	symbol	value	unit
Operating temperature(TO8-Can)	Top	-40~+85	°C
Storage temperature(TO8-Can)	Tstg	-40~+100	°C
Operating temperature(Ceramic)	Top	-20~+60	°C
Storage temperature(Ceramic)	Tstg	-20~+80	°C
Reverse voltage	Vr	4	V
Soldering temperature(time)	Ts (10s)	260	°C

5.Electrical and optical characteristics:(T=25°C)

parameter	symbol	unit	Value (typ.)
Active diameter	Φ	mm	5
Spectral range	λ	nm	800-1700
Responsivity	Re(Vr=0V, λ =1310nm)	mA/mW	0.85
	Re(Vr=0V, λ =1550nm)	mA/mW	0.90
Response time	Tr (RL=50 Ω , Vr=2V)	ns	300
Dark current	Id(Vr=0V)	nA	1.5
	Id(Vr=2V)	nA	10
Reverse Breakdown voltage	VBR (Id=10uA)	V	10
Total capacitance	Cj (f=1MHz, Vr=0V)	pF	4000
	Cj (f=1MHz, Vr=2V)	pF	2000
Saturated Optical Power	Ps(Vr=0V)	mW	5(Min.3)
	Ps(Vr=2V)	mW	15
Reverse operating voltage	Vr	V	0-2
Shunt resistance	Rsh (Vr=10mV)	M Ω	6
package	Hermetic TO8 Can or non-hermetic Ceramic package with Epoxy Resin or Optical Glass window		

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

The typical Responsivity curve



6. The package Dimensions and Lead

<p>0A-Au of TO8 package</p>	<p>Bottom View of TO8 package</p>		
<p>Top View of Ce package</p>	<p>Bottom View of Ce package</p>	<p>Side View of Glass window of Ce package</p>	<p>Side View of Epoxy Resin of Ce package</p>
<p>Note: For more information on dimension, please contact us</p>			

7. Order information

TO8 Can product order information: LS= Lightsensing

LS	IPD	-L5	-0A-Au
	PD type	Active Area	Cap type
	IPD= InGaAs PD	5=5mm	0-Au=flat window Au-plated cap 0A-Au=flat window Au-plated cap and Antireflection Coatings Other

Ceramic package product order information: LS= Lightsensing

LS	IPD	-L5	-Ce	-G
	PD type	Active Area	package	
	IPD= InGaAs PD	5=5mm	Ce=Ceramic package	R=Epoxy Resin G=Optical Glass window

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.

