

800-2200nm 0.3mm InGaAs PIN Photodiode

Model: LSIPD22-0.3

V4.2LWPD-007 2022-01-01

1.Features

- High reliability, low dark current
- Top illumination Planar PIN PD
- 800-2200nm spectral range
- Active diameter 0.3mm
- Hermetic TO46 Can or with receptacle or fiber coupling

2.Applications

- Gas Analyzer
- Environment measurement
- Optical sensor, Temperature sensing
- Covert IR sensing, Spectrography
- Medical and Chemical analysis
- Optical power meter, Space light detect equipment

3.Picture



4.Absolute maximum ratings:

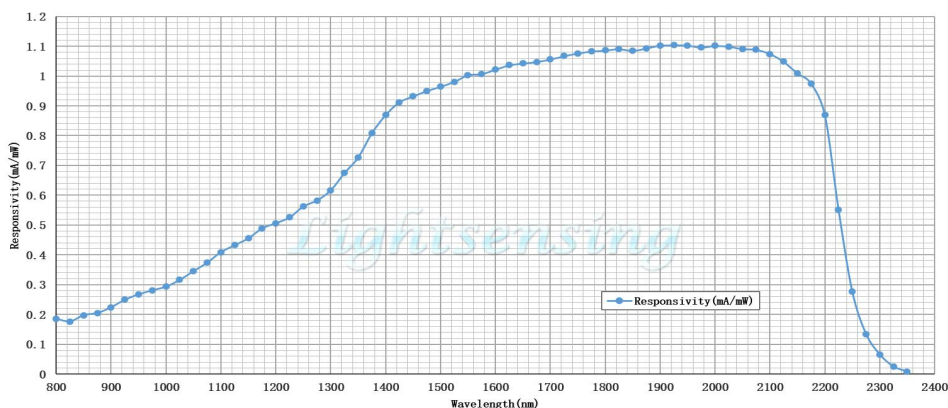
parameter	symbol	value	unit
Operating temperature	Top	-40~+85	°C
Storage temperature	Tstg	-40~+100	°C
Reverse voltage	Vr	1	V
Soldering temperature(time)	Ts(10s)	260	°C

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

parameter	symbol	unit	Value (typ.)
Active diameter	Φ	mm	0.3
Spectral range	λ	nm	800-2200
Responsivity	Re (Vr=0V, λ =850nm,1mW)	mA/mW	0.18
	Re (Vr=0V, λ =1310nm,1mW)	mA/mW	0.60
	Re(Vr=0V, λ =1900nm,1mW)	mA/mW	1.0
	Re(Vr=0V, λ =2200nm,1mW)	mA/mW	0.85
Response time	Tr (RL=50 Ω , Vr=1V)	ns	6
Dark current	Id(Vr=0V)	uA	0.005
	Id(Vr=1V)	uA	0.3
Reverse Breakdown voltage	VBR (Id=10uA)	V	3
Total capacitance	Cj (f=1MHz, Vr=0V)	pF	700
	Cj (f=1MHz, Vr=1V)	pF	40
Saturated Optical Power	Ps(Vr=1V)	mW	3
Reverse operating voltage	Vr	V	0-1
Shunt impedance	Rsh (Vr=10mV)	M Ω	1
Package	Hermetic package TO46 Can or with receptacle or fiber coupling		

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

The typical Sensitivity curve



6. The package Dimensions and Lead

03	1	L1	Type B PIN description Bottom View
			Type C PIN description Bottom View

Note: For more information on dimension, please contact us

7. Order information

TO46 Can product order information: LS=Lightsensing								
LS	IPD22	-0.3	-C	-03				
	PD type	Active Area	PIN	Cap type				
	IPD22=800-2200nm InGaAs PD	0.3=0.3mm	B=Type B PIN C=Type C PIN	03=3mm Flat window nickel-plated cap 1=ball lens nickel-plated cap L1=large ball lens nickel-plated cap Other				
Receptacle product order information: LS=Lightsensing								
LS	IPD22	-0.3	-C	-2JKFC				
	PD type	Active Area	PIN	Receptacle type				
	IPD22=800-2200nm InGaAs PD	0.3=0.3mm	B=Type B PIN C=Type C PIN	2JKFC=receptacle with FC connector and 2 mounting holes 4JKFC=receptacle with FC connector and 4 mounting holes Other				
Fiber coupling product order information: LS=Lightsensing; Def=Default;								
LS	IPD22	-0.3	-C	-SM	FA	-	-	-
	PD type	Active Area	PIN	Fiber type	Fiber	Fiber tube	Fiber length	
	IPD22=800-2200nm InGaAs PD	0.3=0.3mm	B=Type B PIN C=Type C PIN	SM=9um SM 5MM=50um MM 6MM=62.5um MM 10MM=105um MM Other	FA=FC/APC FP=FC/PC SA=SC/APC SP=SC/PC Other	Def=0.9mm tight S=0.9mm Loose Other	Def=1 meter 0.3m=0.3 meter 0.5m=0.5 meter 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.
- 3: The fiber bending radius no less than 20mm for avoiding fiber damaged ,Be sure the fiber coupling facet is clean before connecting it to opto-circuit.

