

0.3mm InGaAs PIN photodiode

Model: IPD-L0.3

V4.2LIPD-003B 2022-01-01

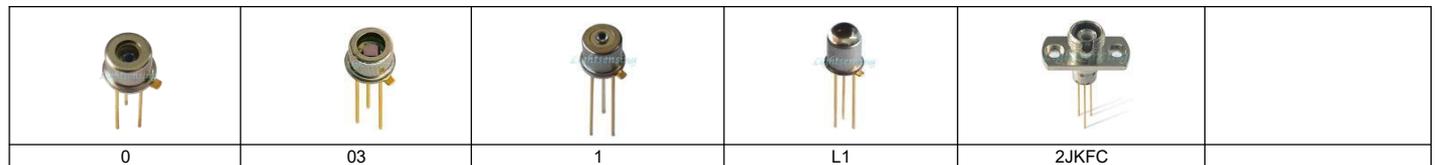
1.Features

- High reliability, low dark current
- Top illumination Planar PINPD
- 800-1700nm spectral range
- Active diameter 0.3mm
- Hermetic TO46 Can or with receptacle

2.Applications

- Optical sensor
- Optical power meter
- Industrial automatic control
- Science analysis and experiment
- Space light detect equipment
- Response spectrum testing

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	10	V
Soldering temperature(time)	Ts (10s)	260	°C

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

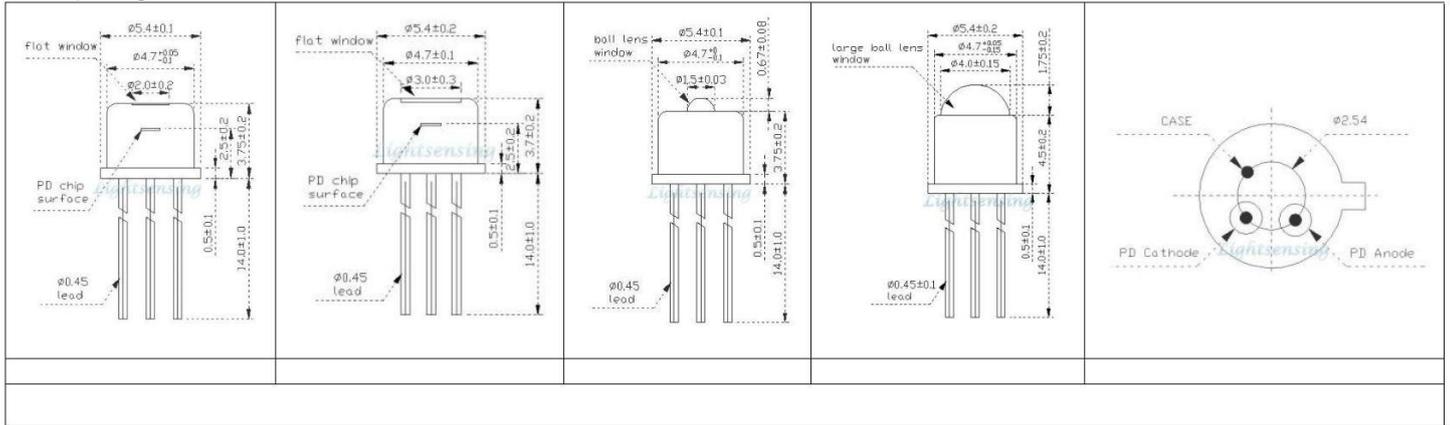
parameter	symbol	unit	Value (typ.)
Active diameter	Φ	mm	0.3
Spectral range	λ	nm	800-1700
Responsivity	Re(Vr=0V, λ =1310nm)	mA/mW	0.85
	Re(Vr=0V, λ =1550nm)	mA/mW	0.90
Response time	Tr (RL=50 Ω ,Vr=5V)	ns	1
Dark current	Id(Vr=0V)	nA	0.05
	Id(Vr=5V)	nA	0.5
Reverse Breakdown voltage	VBR (Id=10uA)	V	30
Total capacitance	Cj (f=1MHz,Vr=0V)	pF	1000
	Cj (f=1MHz,Vr=5V)	pF	6
Saturated Optical Power	Ps(VR =5V)	mW	5
Reverse operating voltage	Vr	V	0-5
Shunt resistance	Rsh (Vr=10mV)	G Ω	1
package	Hermetic TO46 Can or with receptacle		

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

The typical Responsivity curve



6. The package Dimensions and Lead



7. TO46 Order information

IPD	-L0.3	-B	-0	
PD type	Active	PIN	Cap type	
IPD=InGaAs PD	0.3=0.3mm	B=Type B PIN	0=2mm flat window nickel-plated cap 0A=2mm flat window cap and Antireflection Coatings 03=3mm Flat window nickel-plated cap 03A=3mm flat window nickel-plated cap and Antireflection Coatings 1=ball lens cap 1A=ball lens cap and Antireflection Coatings L1=large ball lens nickel-plated cap Other	

Receptacle product order information:

IPD	-L0.3	-B	-2JKFC	
PD type	Active	PIN	Cap type	
IPD=InGaAs PD	0.3=0.3mm	B=Type B PIN	2JKFC=fixed receptacle with FC connector and 2 mounting holes	

8. The cautions!

- 1: The above product specifications are subject to change without notice.
- 2: The suitable ESD protection is required in storage, transportation and using