

# 400-1700nm 0.3mm InGaAs PIN photodiode

V4. IVPD-002 20-10-01

Model: LSIPD-0.3S

## Features:

- High reliability, low dark current
- Active diameter 0.3mm,
- 400-1700nm wide wavelength range
- Hermetic package TO46 Can or with receptacle or fiber coupling

## Applications:

- Optical sensor, Temperature sensing, Covert IR sensing
- Medical and Chemical analysis, Spectrography
- Light Detection and ranging, Industrial automatic control
- Science analysis and Space light detect equipment



## 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

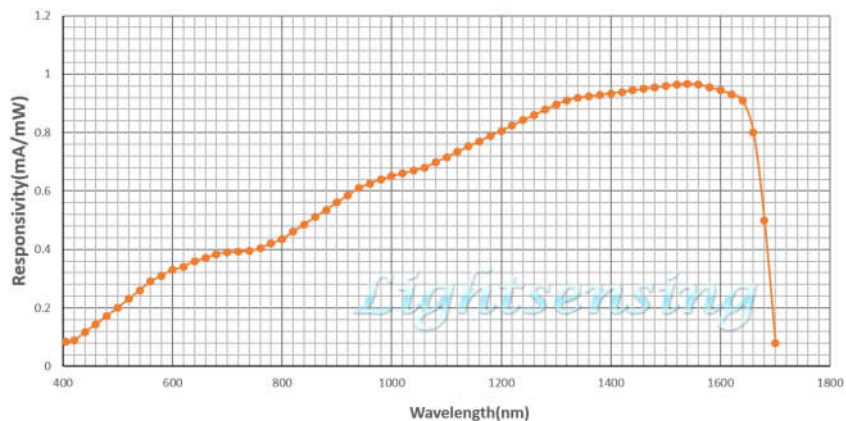
## Electrical and optical characteristics:(T=25°C)

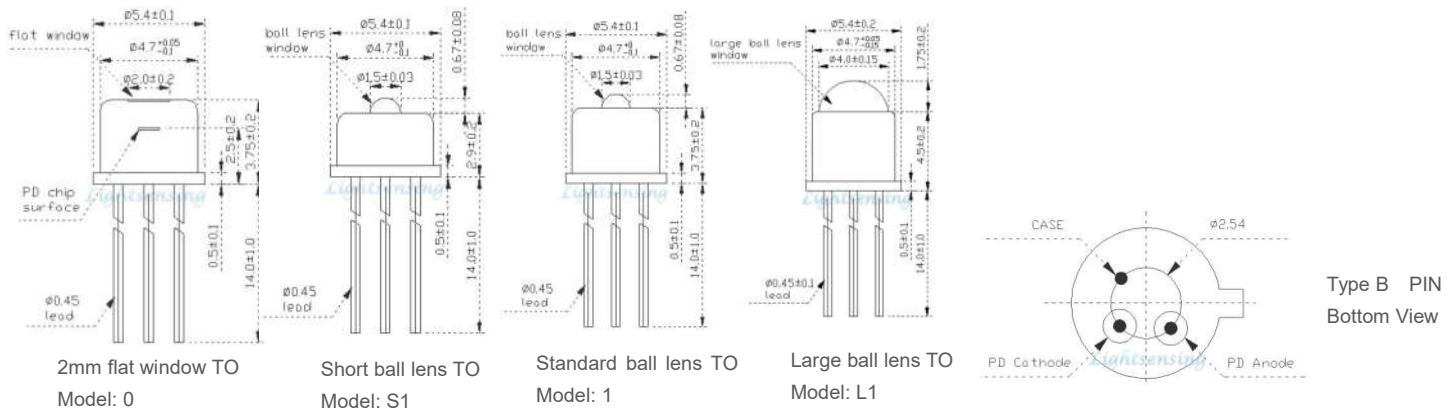
parameter	symbol	unit	Value (typ.)
Active diameter	$\Phi$	mm	0.3
Spectral range	$\lambda$	nm	400-1700
Responsivity	Re(Vr=0V, $\lambda$ =405nm)	mA/mW	0.08
	Re(Vr=0V, $\lambda$ =520nm)	mA/mW	0.25
	Re(Vr=0V, $\lambda$ =650nm)	mA/mW	0.38
	Re(Vr=0V, $\lambda$ =850nm)	mA/mW	0.45
	Re(Vr=0V, $\lambda$ =1550nm)	mA/mW	0.9
Response time	Tr (RL=50 $\Omega$ , Vr=5V)	ns	0.8
Dark current	Id(Vr=0V)	nA	0.05
	Id(Vr=5V)	nA	0.2
Reverse Breakdown voltage	VBR (Id=10uA)	V	30
Total capacitance	Cj (f=1MHz, Vr=0V)	pF	900
	Cj (f=1MHz, Vr=5V)	pF	5
Saturated Optical Power	Ps(Vr=5V)	mW	4
Reverse operating voltage	Vr	V	0-5
Shunt resistance	Rsh (Vr=10mV)	M $\Omega$	200
Package	Hermetic package TO46 Can or with receptacle or fiber coupling		

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

**Note:** In order to get other dimensions, please contact us.

## The typical Responsivity curve





**Note:** For more information on dimension, please contact us.

### Order information

LSIPD-0.3S-X-X-X-X

X=B Type B PIN(Standard products)  
X=Other

X=0  
X=1  
X=S1  
X=L1  
X=SMFA/P  
X=SMSA/P  
X=5MMFA/P  
X=6MMFA/P  
X=10MMA/P  
X=20MMA/P  
X=2JKFC  
X=4JKFC  
X=Other

TO46 Can with 2mm flat window cap(Standard products)  
TO46 Can with ball lens cap(Standard products)  
TO46 Can with short ball lens cap  
TO46 Can with large ball lens cap  
TO46 Can with SM Fiber coupling with FC-APC/FC-PC connector  
TO46 Can with SM Fiber coupling with SC-APC/SC-PCconnector  
TO46 Can with 50um MM Fiber coupling with FC-APC/FC-PC connector  
TO46 Can with 62.5um MM Fiber coupling with FC-APC/FC-PC connector  
TO46 Can with 105um MM Fiber coupling with FC-APC/FC-PC connector  
TO46 Can with 200um MM Fiber coupling with FC-APC/FC-PC connector  
TO46 Can with fixed receptacle with FC connector and 2 mounting holes  
TO46 Can with fixed receptacle with FC connector and 4 mounting holes  
By customer's request

### Fiber length

X= Default 1m  
X=0.3m,0.5m or other

### Tube

X= Default 0.9mm tight tube  
X=S 0.9mm Loose tube

### 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.

