

## 0.3mm low dark current Analog InGaAs PIN photodiode V4.1LIPD-003 20-10-01

Model: LSIPD-UL0.3

### Features:

- High reliability, Ultra low dark current
- 800-1700nm spectral range
- Active diameter 0.3mm
- Hermetic TO46 Can or with receptacle or fiber coupling

### Applications:

- Optical sensor and Analog CATV
- Optical power meter
- Industrial automatic control
- Medical field application
- Security field application



### Absolute maximum ratings:

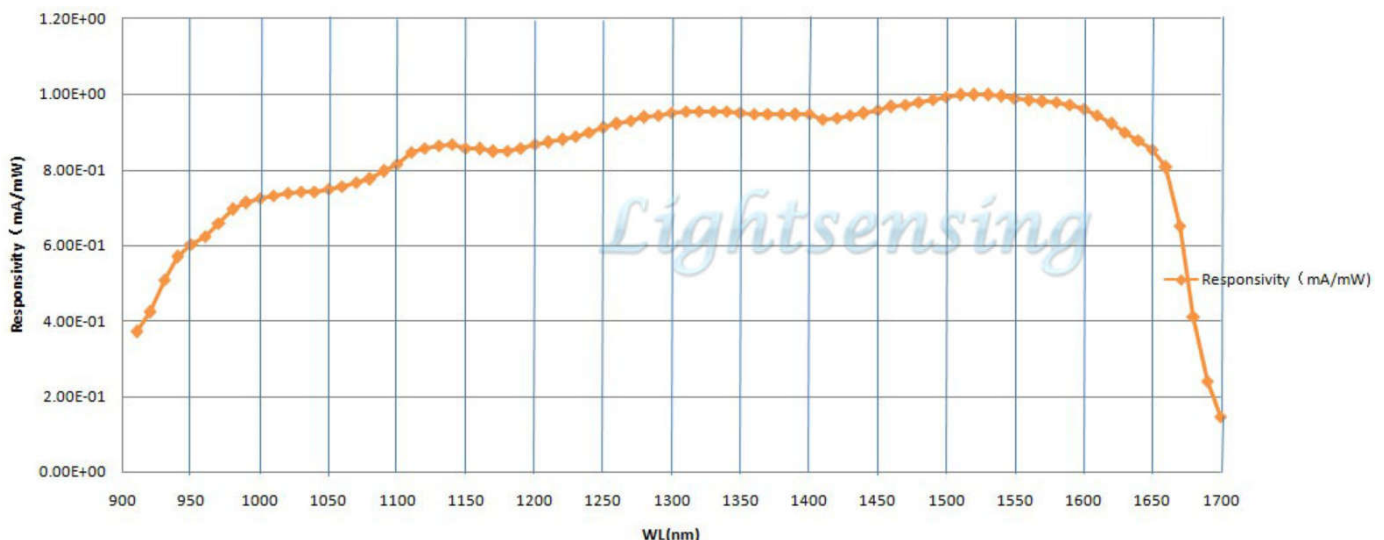
parameter	symbol	value	unit
Operating temperature	Top	-40~+85	°C
Storage temperature	Tstg	-40~+100	°C
Reverse voltage	Vr	10	V
Soldering temperature(time)	Ts (10s)	260	°C

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

parameter	symbol	unit	Value (typ.)
Active diameter	$\Phi$	mm	0.3
Spectral range	$\lambda$	nm	800-1700
Responsivity	Re(Vr=0V, $\lambda$ =1310nm)	mA/mW	0.85
	Re(Vr=0V, $\lambda$ =1550nm)	mA/mW	0.90
Response time	Tr (RL=50 $\Omega$ , Vr=5V)	ns	0.8
Dark current	Id(Vr=0V)	pA	2
	Id(Vr=5V)	pA	20
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	5
2nd Order Inter-modulation distortion	CSO(Two tones, RL=50 $\Omega$ , 1mW, VR=5V)	dBc	-75
Reverse operating voltage	Vr	V	0-5
Shunt resistance	Rsh (Vr=10mV)	G $\Omega$	5
package	Hermetic TO46 Can or with receptacle or fiber coupling		

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

### The typical Responsivity curve

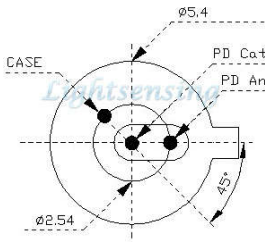
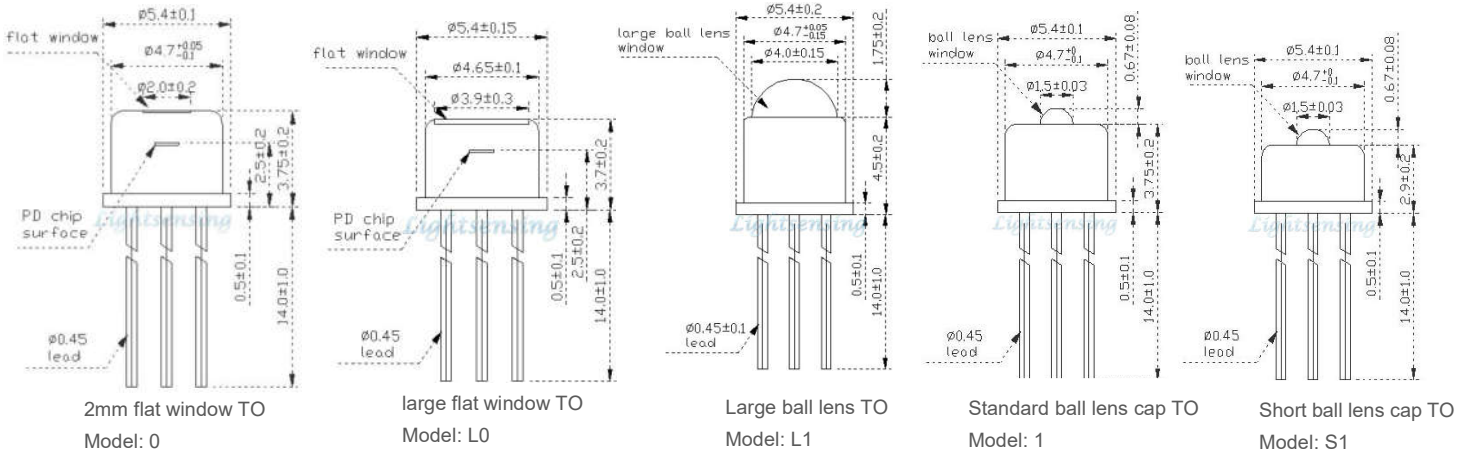


地址: 北京市海淀区苏州街 33 号 12 层 1202 邮编: 100080

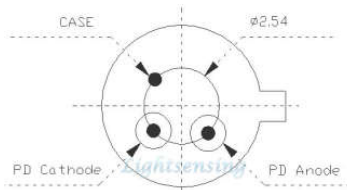
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**TO package and Lead**



Type A PIN description  
Bottom View



Type B PIN description  
Bottom View

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

**Order information**

LSIPD-UL0.3-X-X-X-X

X=A Type A PIN description  
X=B Type B PIN description  
X=Other

X=0  
X=0A  
X=L0  
X=L0A  
X=1  
X=1A  
X=S1  
X=S1A  
X=L1  
X=SMFA/P  
X=SMSA/P  
X=5MMFA/P  
X=6MMFA/P  
X=10MMA/P  
X=20MMA/P  
X=PJKFC  
X=2JKFC  
X=4JKFC  
X=Other

TO46 Can with 2mm flat window cap (**Standard products**)  
TO46 Can with 2mm flat window cap and Antireflection Coatings  
TO46 Can with 3.9mm flat window cap  
TO46 Can with 3.9mm flat window cap and Antireflection Coatings  
TO46 Can with ball lens cap (**Standard products**)  
TO46 Can with ball lens cap and Antireflection Coatings (**Standard products**)  
TO46 Can with short ball lens cap  
TO46 Can with short ball lens cap and Antireflection Coatings  
TO46 Can with large ball lens cap  
TO46 Can with SM Fiber coupling with FC-APC/FC-PC connector (**Standard products**)  
TO46 Can with SM Fiber coupling with SC-APC/SC-PC connector  
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(**Standard products**)  
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 by plane mount  
TO46 Can with fixed receptacle with FC connector and 2 mounting holes (**Standard products**)  
TO46 Can with fixed receptacle with FC connector and 4 mounting holes (**Standard products**)  
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.

