

0.5mm Ultra low dark current InGaAs PIN photodiode

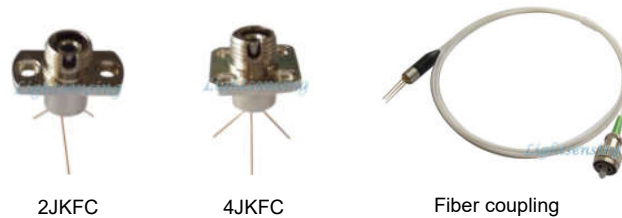
V4.1LPD-004 20-10-01

Model: LSIPD-UL0.5
Features:

- High reliability, Ultra low dark current
- Top illumination Planar PIN PD
- Active diameter 0.5mm
- TO46 Can with receptacle or fiber coupling


Applications:

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


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	Φ	mm	0.5
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=5V)	ns	3
Dark current	Id(Vr=0V)	pA	3
	Id(Vr=5V)	pA	35
Reverse Breakdown voltage	VBR (Id=10uA)	V	30
Total capacitance	Cj (f=1MHz, Vr=0V)	pF	1000
	Cj (f=1MHz, Vr=5V)	pF	19
Saturated Optical Power	Ps(Vr =5V)	mW	8
Reverse operating voltage	Vr	V	0-5
Shunt resistance	Rsh (Vr=10mV)	G Ω	3
package	TO46 Can or with receptacle or fiber coupling		

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

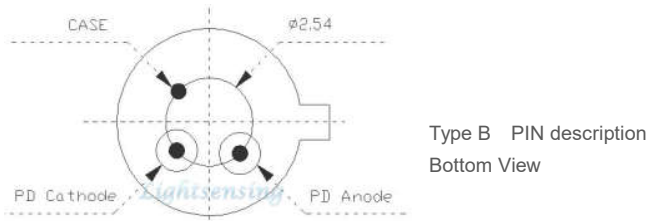
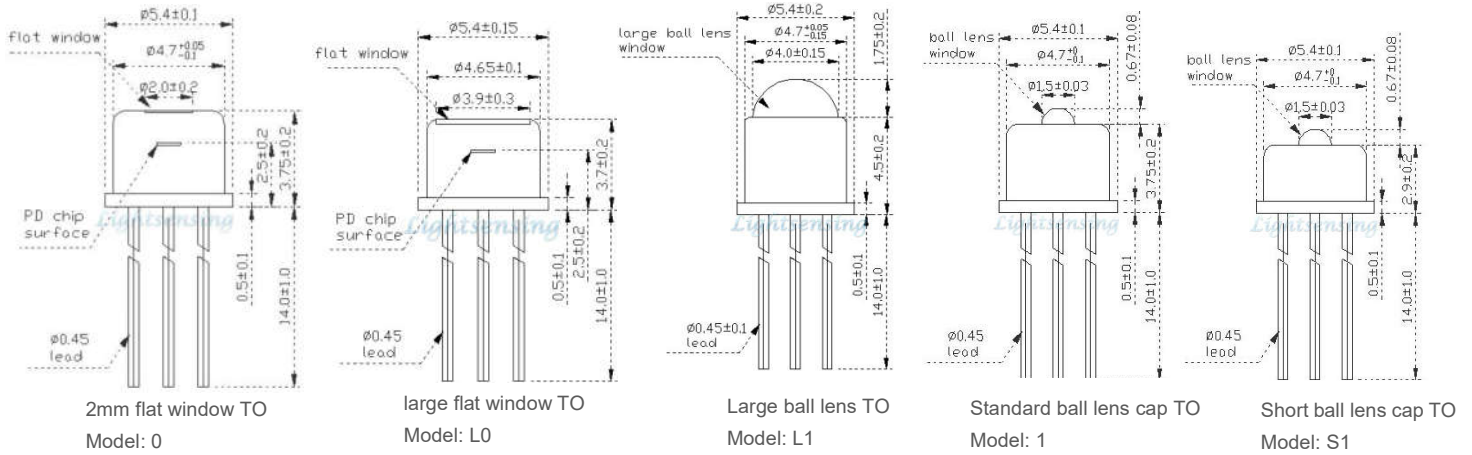
The typical Responsivity curve


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TO package and Lead



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

Order information

LSIPD-UL0.5-X-X-X-X

X=B Type B PIN

- X=0 TO46 Can with 2mm flat window cap (**Standard products**)
- X=0A TO46 Can with 2mm flat window cap and Antireflection Coatings
- X=L0 TO46 Can with 3.9mm flat window cap (**Standard products**)
- X=1 TO46 Can with ball lens cap
- X=1A TO46 Can with ball lens cap and Antireflection Coatings
- X=S1 TO46 Can with short ball lens cap
- X=S1A TO46 Can with short ball lens cap and Antireflection Coatings
- X=L1 TO46 Can with large ball lens cap (**Standard products**)
- X=SMFA/P TO46 Can with SM Fiber coupling with FC-APC/FC-PC connector
- X=SMSA/P TO46 Can with SM Fiber coupling with SC-APC/SC-PCconnector
- X=5MMFA/P TO46 Can with 50um MM Fiber coupling with FC-APC/FC-PC connector
- X=6MMFA/P TO46 Can with 62.5um MM Fiber coupling with FC-APC/FC-PC connector
- X=2JKFC TO46 Can with fixed receptacle with FC connector and 2 mounting holes
- X=4JKFC TO46 Can with fixed receptacle with FC connector and 4 mounting holes
- X=Other 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.

