

0.5mm Ultra low dark current InGaAs PIN photodiode

V4.1LPD-004 20-10-01

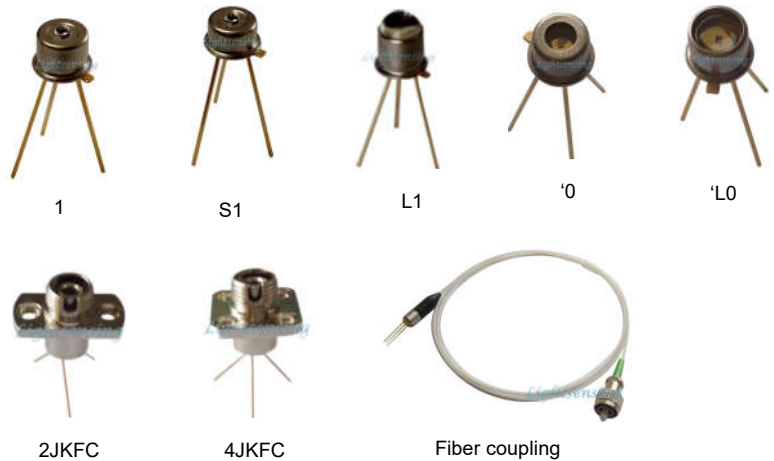
Model: LSIPD-UL0.5

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)

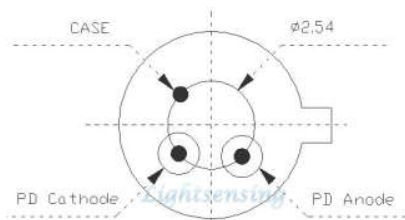
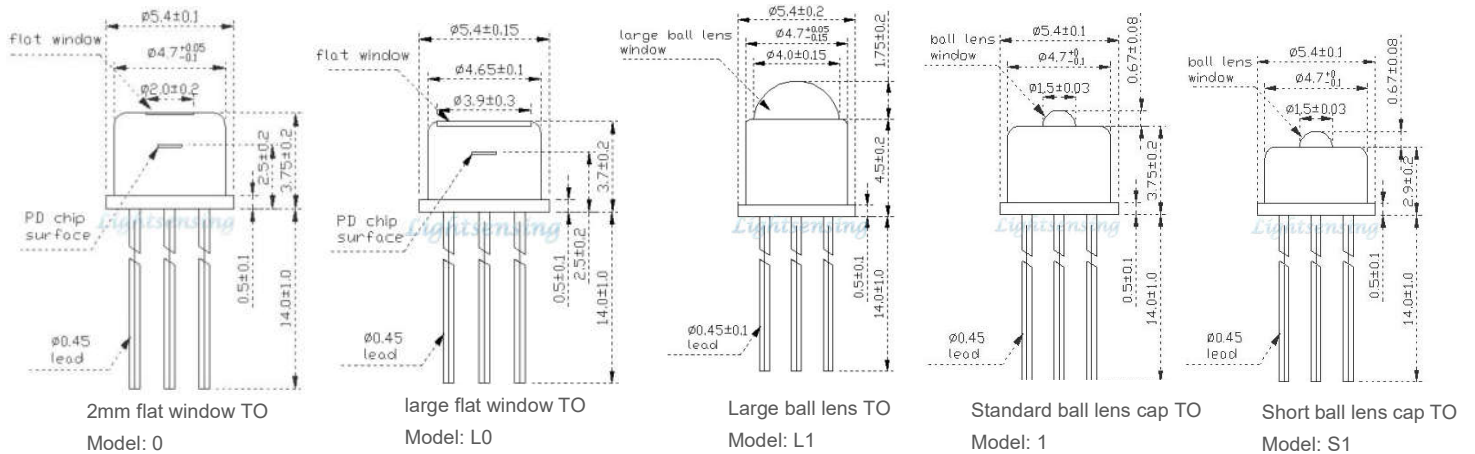
parameter	symbol	unit	Value (typ.)
Active diameter	Φ	mm	0.5
Spectral range	λ	nm	800-1700
Responsivity	Re(Vr=0V, λ =1310nm)	mA/mW	0.85
	Re(Vr=0V, λ =1550nm)	mA/mW	0.90
Response time	Tr (RL=50 Ω , Vr=5V)	ns	3
Dark current	Id(Vr=0V)	pA	3
	Id(Vr=5V)	pA	35
Reverse Breakdown voltage	VBR (Id=10uA)	V	30
Total 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



TO package and Lead



Type B PIN description
Bottom View

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
X=0A
X=L0
X=1
X=1A
X=S1
X=S1A
X=L1
X=SMFA/P
X=SMSA/P
X=5MMFA/P
X=6MMFA/P
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 (**Standard products**)
TO46 Can with ball lens cap
TO46 Can with ball lens cap and Antireflection Coatings
TO46 Can with short ball lens cap
TO46 Can with short ball lens cap and Antireflection Coatings
TO46 Can with large ball lens cap (**Standard products**)
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 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.

