

0.3mm low dark current Analog InGaAs PIN photodiode V4.1LPD-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)

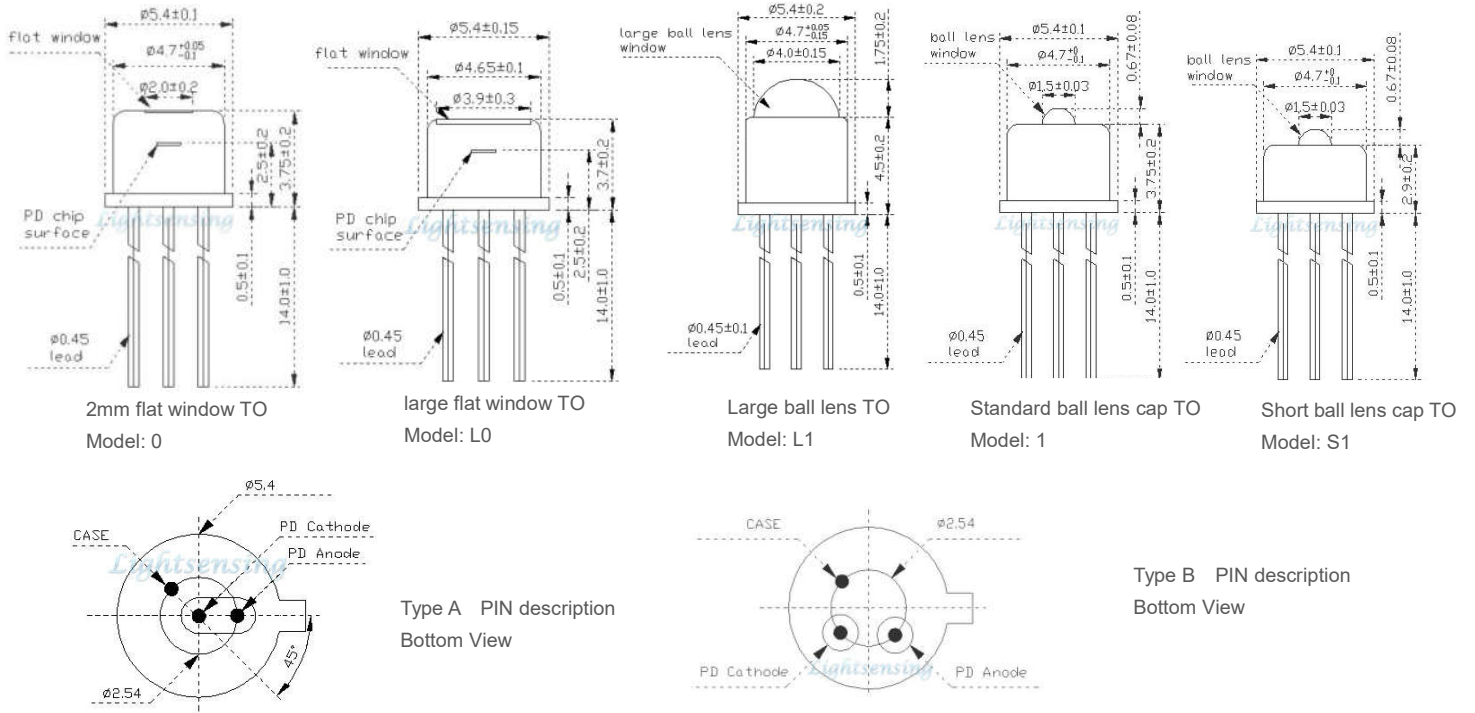
| parameter | symbol | unit | Value (typ.) |
|---------------------------------------|--|-------|--------------|
| Active diameter | Φ | mm | 0.3 |
| Spectral range | λ | nm | 800-1700 |
| Responsivity | Re(Vr=0V,λ=1310nm) | mA/mW | 0.85 |
| | Re(Vr=0V,λ=1550nm) | mA/mW | 0.90 |
| Response time | Tr (RL=50Ω,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=50Ω,1mW, VR=5V) | dBc | -75 |
| Reverse operating voltage | Vr | V | 0-5 |
| Shunt resistance | Rsh (Vr=10mV) | GΩ | 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



TO package and Lead



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.

