

1mm InGaAs PIN photodiode

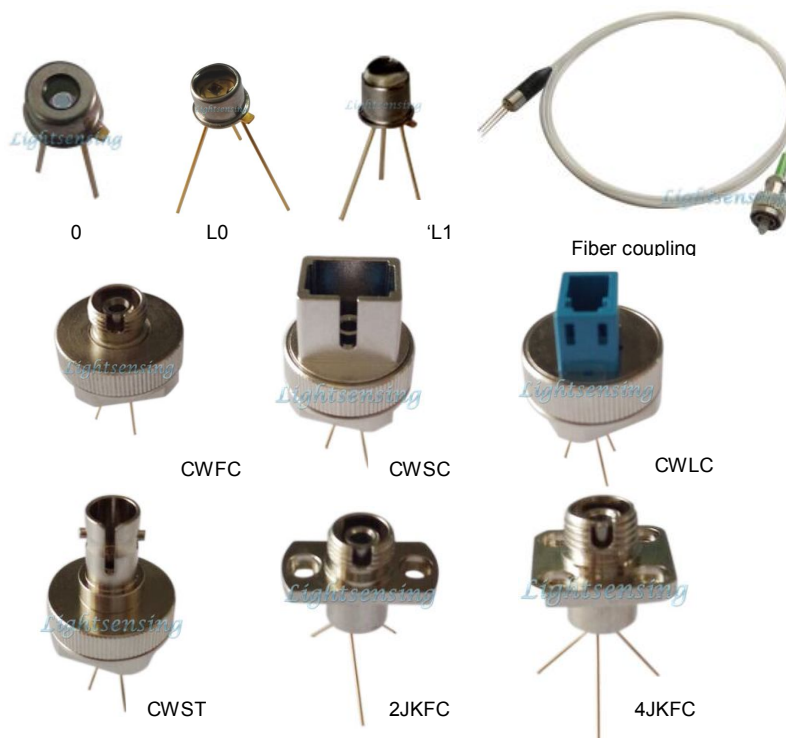
Model: LSIPD-L1

Features:

- High reliability, low dark current
- Top illumination Planar PIN PD
- Active diameter 1mm
- TO46 Can or 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



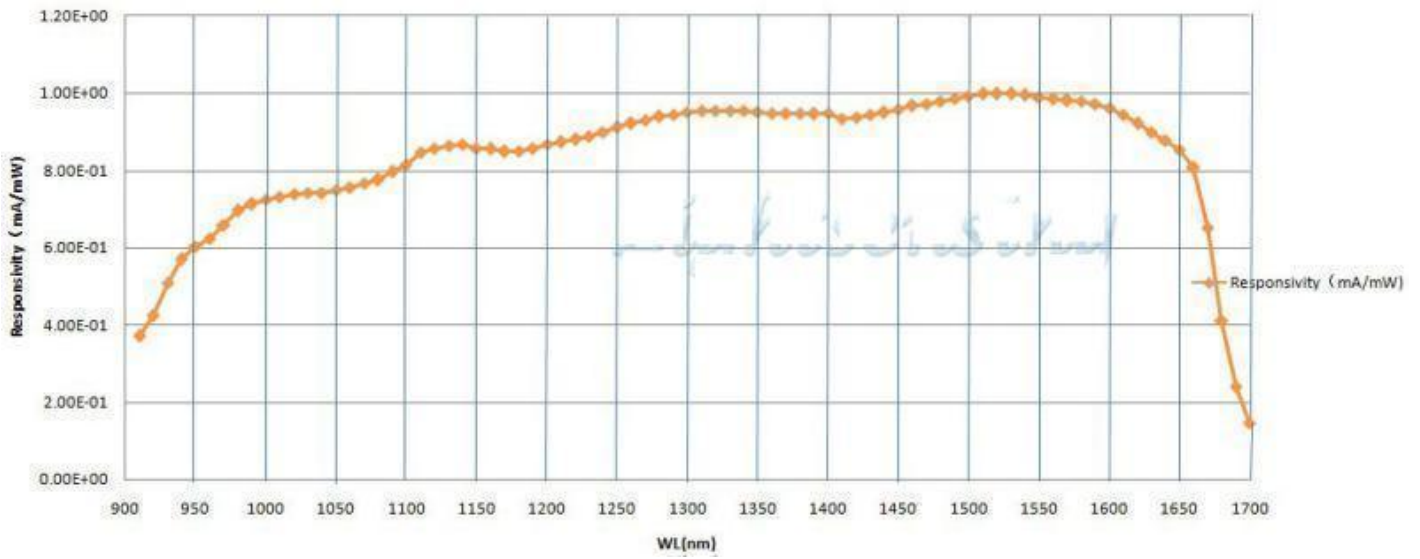
Absolute maximum ratings:

parameter	symbol	value	unit
Operating temperature	Top	-40~+85	°C
Storage temperature	Tstg	-40~+100	°C
Forward current	I _f	12	mA
Reverse voltage	V _r	20	V
Soldering temperature(time)	Ts (10s)	260	°C

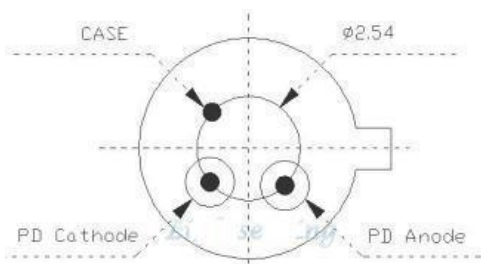
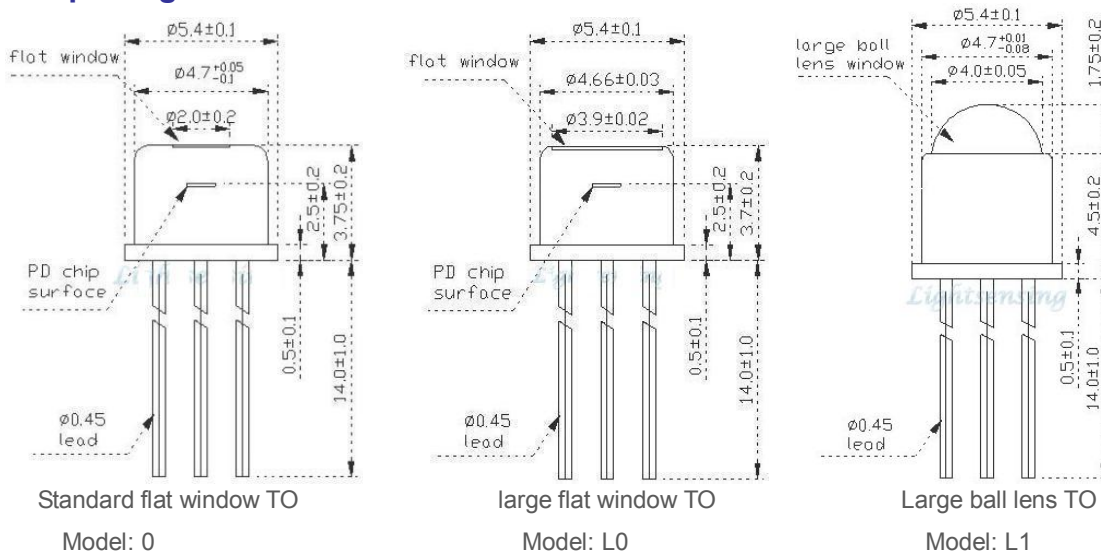
Electrical and optical characteristics:(T=25°C)

parameter	symbol	unit	Value (typ.)
Active diameter	Φ	mm	1
Spectral range	λ	nm	800-1700
Responsivity	Re(V _R =0V,λ=1310nm)	mA/mW	0.85
	Re(V _R =0V,λ=1550nm)	mA/mW	0.90
Response time	Tr (R _L =50Ω, V _R =5V)	ns	10
Dark current	Id(V _R =0V)	nA	0.1
	Id(V _R =5V)	nA	1
Reverse Breakdown voltage	V _{BR} (I _R =10uA)	V	30
Junction capacitance	Cj (f=1MHz, V _R =0V)	pF	1200
	Cj (f=1MHz, V _R =5V)	pF	75
Saturated Optical Power	Ps(V _R =5V)	mW	10
Operating voltage	V _R	V	0-5
Shunt resistance	R _{sh} (V _R =10mV)	MΩ	100
package	TO46 Can or with receptacle or fiber coupling		

The typical Responsivity curve



TO package and Lead



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

Order information

LSIPD-L1-X



X=0	TO-46 Can with 2mm flat window cap
X=0A	TO-46 Can with 2mm flat window cap and Antireflection Coatings
X=L0	TO-46 Can with 3.9mm flat window cap
X=L1	TO-46 Can with large ball lens cap
X=SMFA/P	SM Fiber coupling with FC-APC/FC-PC connector
X=SMSA	SM Fiber coupling with SC-APC connector
X=5MMFA/P	50um MM Fiber coupling with FC-APC/FC-PC connector
X=6MMFA/P	62.5um MM Fiber coupling with FC-APC/FC-PC connector
X=CWFC	TO-46 Can with replaceable receptacle with FC connector
X=CWSC	TO-46 Can with replaceable receptacle with SC connector
X=CWLC	TO-46 Can with replaceable receptacle with LC connector
X=CWST	TO-46 Can with replaceable receptacle with ST connector
X=2JKFC	TO-46 Can with fixed receptacle with FC connector and 2 pieces of fix holes
X=4JKFC	TO-46 Can with fixed receptacle with FC connector and 4 pieces of fix holes
X=Other	By customer's request

The cautions

1: The suitable ESD protection is required in storage, transportation and using

2: 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.