

10mm InGaAs PIN photodiode

Version: 4.1 20-02-02

Model: LSIPD-L10

Features:

- High reliability, low dark current
- Top illumination Planar PIN PD
- Large Active diameter 10mm
- Hermetic TO20 Can



Applications:

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

Absolute maximum ratings:

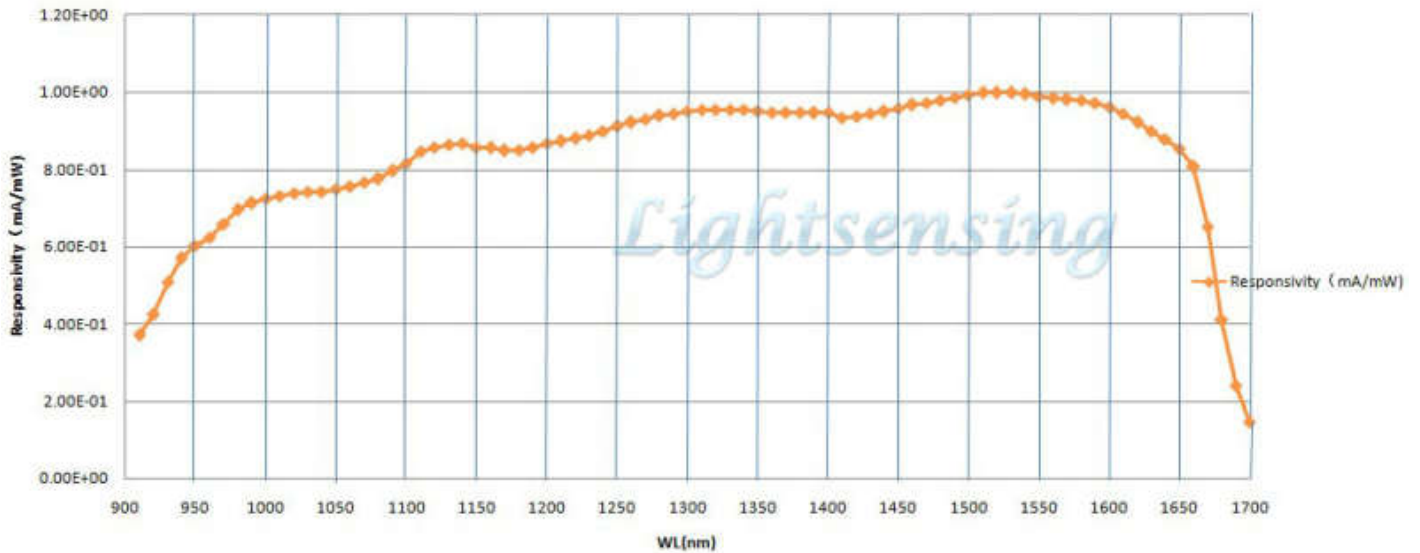
parameter	symbol	value	unit
Operating temperature	Top	-40~+85	°C
Storage temperature	Tstg	-40~+100	°C
Reverse voltage	V _r	3	V
Soldering temperature(time)	T _s (10s)	260	°C

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

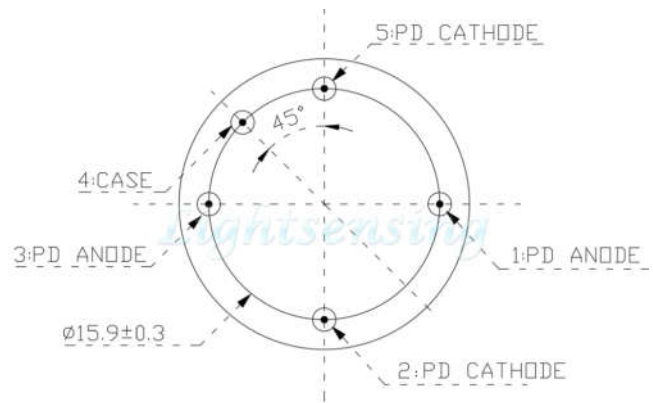
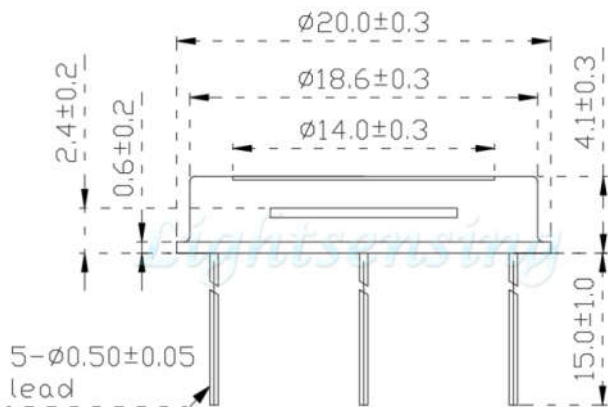
parameter	symbol	unit	Value (typ.)
Active diameter	Φ	mm	10
Spectral range	λ	nm	800-1700
Responsivity	Re(V _R =0V,λ=1310nm)	mA/mW	0.9
	Re(V _R =0V,λ=1550nm)	mA/mW	0.95
Response time	T _r (R _L =50Ω, V _R =2V)	us	10
Dark current	I _d (V _R =0V)	nA	2
	I _d (V _R =2V)	nA	20
Reverse Breakdown voltage	V _{BR} (I _R =10uA)	V	10
Junction capacitance	C _j (f=1MHz, V _R =0V)	nF	15
	C _j (f=1MHz, V _R =2V)	nF	8
Saturated Optical Power	P _s (V _R =0V)	mW	5
Operating voltage	V _R	V	0-2
Shunt resistance	R _{sh} (V _R =10mV)	MΩ	2
package	Hermetic TO20 Can		

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

The typical Responsivity curve



TO package and Lead



Bottom View

Order information

LSIPD-L10-X

- | | |
|---------|---|
| X=0 | TO-20 Can with flat window Au cap |
| X=0A | TO-20 Can with flat window Au cap and Antireflection Coatings |
| X=Other | By customer's request. |

The cautions

- 1: The above product specifications are subject to change without notice.
- 2: The suitable ESD protecting measure are recommend in storage,transporting and using.