

## 8mm InGaAs PIN photodiode

V4.1LIPD-012 21-10-01

**Model: LSIPD-L8**
**Features:**

- High reliability, low dark current
- Top illumination Planar PIN PD
- Large Active diameter 8mm
- Hermetic TO8 Can or non-hermetic Ceramic package with Epoxy Resin or Optical Glass

**Applications:**

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



0A-Au



L8-Ce-G

**Absolute maximum ratings:**

parameter	symbol	value	unit
Operating temperature(TO8-Can)	Top	-40~+85	°C
Storage temperature(TO8-Can)	Tstg	-40~+100	°C
Operating temperature(Ceramic)	Top	-20~+60	°C
Storage temperature(Ceramic)	Tstg	-20~+80	°C
Reverse voltage	Vr	4	V
Soldering temperature(time)	Ts (10s)	260	°C

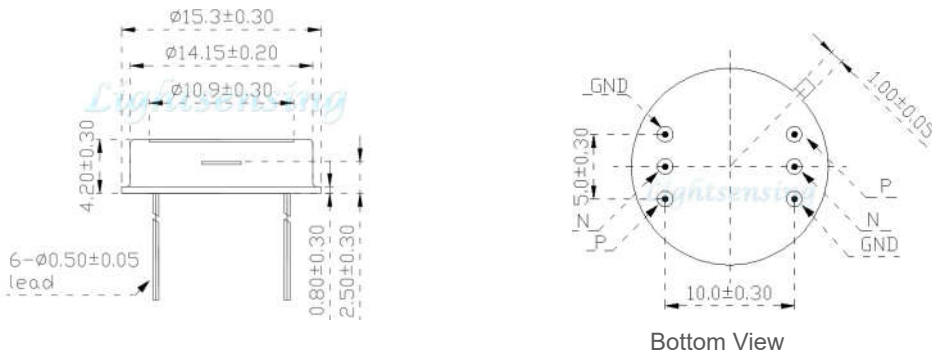
**Electrical and optical characteristics:(T=25°C)**

parameter	symbol	unit	Value (typ.)
Active diameter	$\Phi$	mm	8
Spectral range	$\lambda$	nm	800-1700
Responsivity	Re(Vr=0V, $\lambda$ =1310nm)	mA/mW	0.85
	Re(Vr=0V, $\lambda$ =1550nm)	mA/mW	0.90
Response time	Tr (RL=50 $\Omega$ , Vr=2V)	ns	
Dark current	Id(Vr=0V)	nA	2
	Id(Vr=2V)	nA	15
Reverse Breakdown voltage	VBR (Id=10uA)	V	10
Total capacitance	Cj (f=1MHz, Vr=0V)	nF	12
	Cj (f=1MHz, Vr=2V)	nF	5
Saturated Optical Power	Ps(Vr=0V)	mW	5(Min.3)
	Ps(Vr=2V)	mW	15
Reverse operating voltage	Vr	V	0-2
Shunt resistance	Rsh (Vr=10mV)	M $\Omega$	5
package	Hermetic TO8 Can or non-hermetic Ceramic package with Epoxy Resin or Optical Glass		

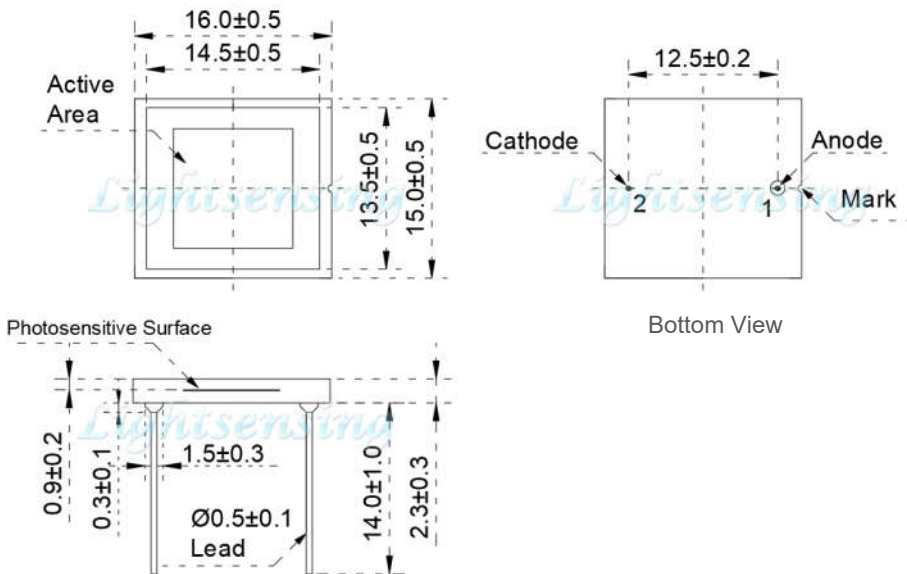
NOTICE: The above product specifications are subject to change without notice.

**The typical Responsivity curve**


**TO package and Lead**



**The ceramic package and Lead**



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

**TO package Order information**

LSIPD-L8-X

- X=0-Au TO8 Can with flat window Au-plated cap (**Standard products**)
- X=0A-Au TO8 Can with flat window Au-plated cap and Antireflection Coatings(**Standard products**)
- X=Other By customer's request.

**Ceramic package order information**

LSIPD-L8-X-X

- X=Ce Ceramic package
- X=Other By customer's request
- X=R Epoxy Resin
- X=G Optical Glass (**Standard products**)
- X=Other By customer's request

**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.

