

800-2200nm 1mm InGaAs PIN Photodiode

V4.1LWPD-011 21-10-01

Model: LSIPD22-1
Features:

- Low noise, High reliability
- 800-2200nm wide wavelength range
- Active diameter 1mm
- Hermetic package TO46 Can or with receptacle or fiber coupling

Applications:

- Gas Analyzer
- Environment measurement
- Optical sensor, Temperature sensing
- Covert IR sensing, Spectrography
- Medical and Chemical analysis
- Optical power meter, Space light detect equipment

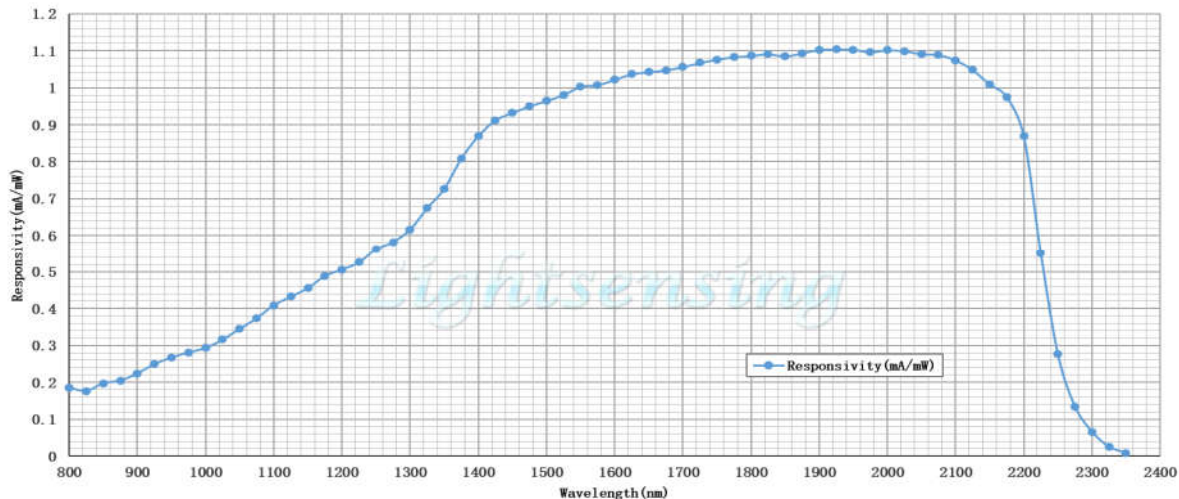

Absolute maximum ratings:

parameter	symbol	value	unit
Operating temperature	Top	-40~+85	°C
Storage temperature	Tstg	-40~+100	°C
Reverse voltage	Vr	1	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	800-2200
Responsivity	Re (Vr=0V, λ =850nm,1mW)	mA/mW	0.18
	Re (Vr=0V, λ =1310nm,1mW)	mA/mW	0.60
	Re(Vr=0V, λ =1900nm,1mW)	mA/mW	1.0
	Re(Vr=0V, λ =2200nm,1mW)	mA/mW	0.85
Response time	Tr (RL=50 Ω , Vr=0.5V)	ns	35
Dark current	Id(Vr=0V)	μ A	0.03
	Id(Vr=0.5V)	μ A	2.5
Reverse Breakdown voltage	V _{BR} (Id=10 μ A)	V	2
Total capacitance	Cj (f=1MHz, Vr=0V)	pF	1000
	Cj (f=1MHz, Vr=0.5V)	pF	500
Saturated Optical Power	Ps(Vr=0.5V)	mW	4
Reverse operating voltage	Vr	V	0-0.5
Shunt impedance	Rsh (Vr=10mV)	M Ω	0.15
Package	Hermetic package TO46 Can or with receptacle or fiber coupling		

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

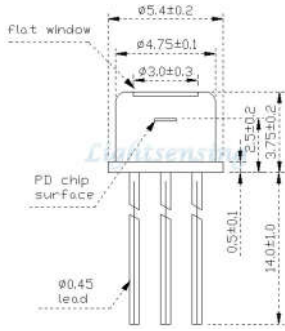
The typical Sensitivity curve


地址: 北京市海淀区苏州街33号12层1202 邮编: 100080

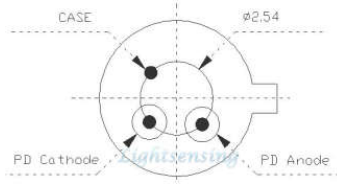
Address: Floor 12 Rm 1202, No 33 Suzhou Street, Haidian District, Beijing 100080, China.

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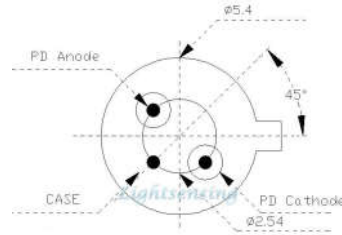
TO package and Lead



3mm flat window TO
Model: 03



B Type PIN description
Bottom View



C Type PIN description
Bottom View

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

Order information

LSIPD22-1-X-X-X-X

X=B B Type PIN

X=C CType PIN (Standard products)

X=Other

X=03

X=SMFA/P

X=SMSA/P

X=5MMFA/P

X=6MMFA/P

X=10MMFA/P

X=CWFC

X=CWSC

X=CWLC

X=CWST

X=2JKFC

X=4JKFC

X=Other

TO46 Can with 3mm Flat window nickel-plated 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-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

TO46 Can with 105um MM Fiber coupling with FC-APC/FC-PC connector

TO5 Can with replaceable receptacle with FC connector

TO5 Can with replaceable receptacle with SC connector

TO5 Can with replaceable receptacle with LC connector

TO5 Can with replaceable receptacle with ST 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.

