

800-2200nm 2mm InGaAs PIN Photodiode

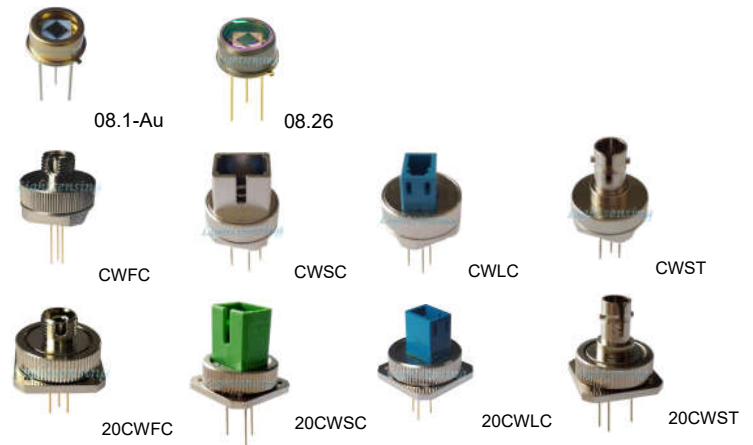
V4.1LWPD-012 21-10-01

Model: LSIPD22-2
Features:

- Low noise, High reliability
- 800-2200nm wide wavelength range
- Active diameter 2mm
- Hermetic package TO5 Can or with receptacle

Applications:

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

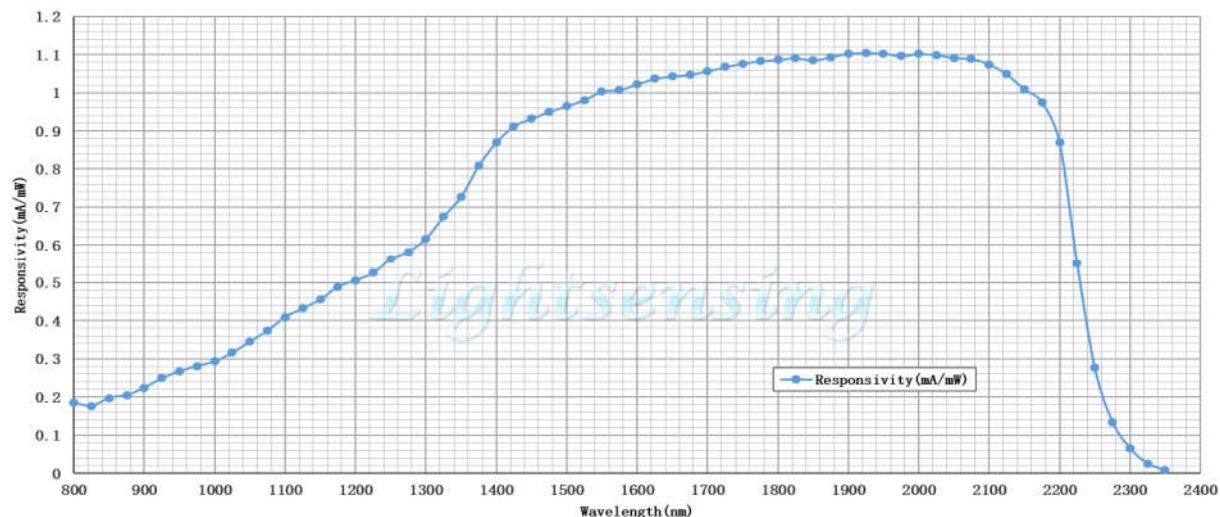

Absolute maximum ratings:

parameter	symbol	value	unit
Operating temperature	Top	-40~+85	°C
Storage temperature	Tstg	-40~+100	°C
Reverse voltage	Vr	0.8	V
Soldering temperature(time)	Ts (10s)	260	°C

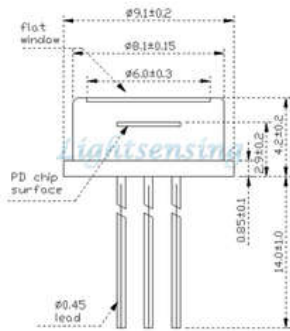
Electrical and optical characteristics:(T=25°C)

parameter	symbol	unit	Value (typ.)
Active diameter	Φ	mm	2
Spectral range	λ	nm	800-2200
Responsivity	Re (Vr=0V, λ =850nm)	mA/mW	0.18
	Re (Vr=0V, λ =1310nm)	mA/mW	0.60
	Re(Vr=0V, λ =1900nm)	mA/mW	1.0
	Re(Vr=0V, λ =2200nm)	mA/mW	0.85
Response time	Tr (RL=50 Ω , Vr=0.3V)	ns	200
Dark current	Id(Vr=0V)	μ A	0.1
	Id(Vr=0.3V)	μ A	5
Reverse Breakdown voltage	VBR (Id=10 μ A)	V	0.5
Total capacitance	Cj (f=1MHz, Vr=0V)	pF	2000
	Cj (f=1MHz, Vr=0.3V)	pF	1500
Saturated Optical Power	Ps(Vr=0.3V)	mW	2
Reverse operating voltage	Vr	V	0-0.3
Shunt impedance	Rsh (Vr=10mV)	K Ω	20
Package	Hermetic package TO5 Can or with receptacle		

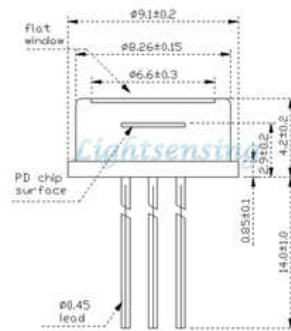
NOTICE: The above product specifications are subject to change without notice.

The typical Responsivity curve


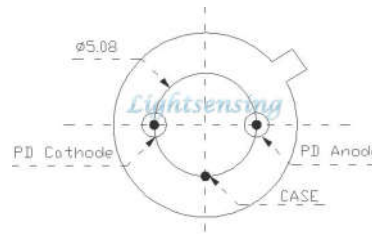
TO package and Lead



flat window 8.1mm TO
Model: 08.1



flat window 8.26mm TO
Model: 08.26



Bottom View

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

Order information

LSIPD22-2-X

- | | |
|-----------|--|
| X=08.1-Au | TO5 Can with flat window Φ 8.1mm Au-plated cap (Standard products) |
| X=08.26 | TO5 Can with flat window Φ 8.26mm nickel-plated cap |
| X=CWFC | TO5 Can with replaceable receptacle with FC connector |
| X=CWSC | TO5 Can with replaceable receptacle with SC connector |
| X=CWLC | TO5 Can with replaceable receptacle with LC connector |
| X=CWST | TO5 Can with replaceable receptacle with ST connector |
| X=20CWFC | TO5 Can with 20mm replaceable receptacle with FC connector |
| X=20CWSC | TO5 Can with 20mm replaceable receptacle with SC connector |
| X=20CWST | TO5 Can with 20mm replaceable receptacle with ST connector |
| X=20CWLC | TO5 Can with 20mm replaceable receptacle with LC connector |
| 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.
- 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.

