

400nm-1700nm 2mm InGaAs PIN Photodiode

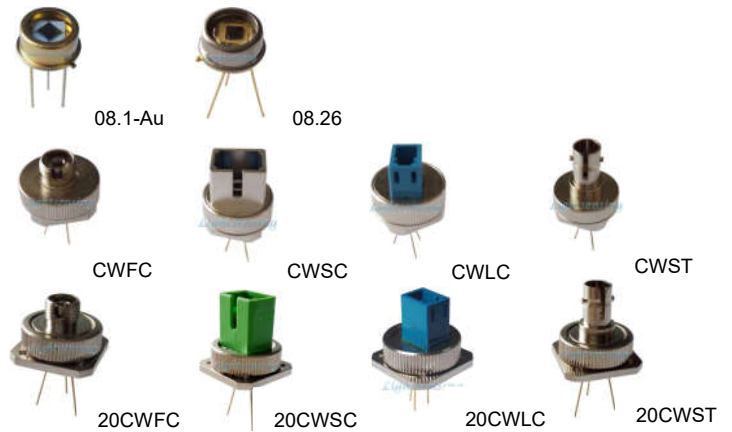
V4.1VIPD-004 20-10-01

Model: LSIPD-2S
Features:

- High reliability, low dark current
- Active diameter 2mm
- 400-1700nm wide wavelength range
- Hermetic package TO5 Can or with receptacle

Applications:

- Optical sensor, Temperature sensing
- Covert IR sensing, Spectrography
- Medical and Chemical analysis
- Optical power meter, Space light detect equipment
- Light Detection , Industrial automatic control
- Science analysis and experiment
- 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	V _r	5	V
Soldering temperature(time)	T _s (10s)	260	°C

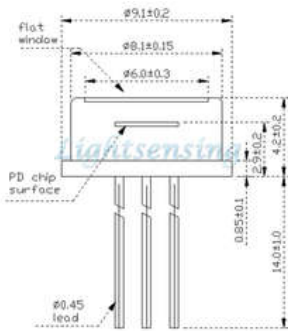
Electrical and optical characteristics:(T=25°C)

parameter	symbol	unit	Value (typ.)
Active diameter	Φ	mm	2
Spectral range	λ	nm	400-1700
Responsivity	Re(V _r =0V,λ=405nm)	mA/mW	0.12
	Re(V _r =0V,λ=650nm)	mA/mW	0.35
	Re(V _r =0V,λ=850nm)	mA/mW	0.48
	Re(V _r =0V,λ=1550nm)	mA/mW	0.90
Response time	Tr (R _L =50Ω, V _r =3V)	ns	35
Dark current	I _d (V _r =0V)	nA	0.1
	I _d (V _r =3V)	nA	5
Reverse Breakdown voltage	V _{BR} (I _d =10uA)	V	20
Total capacitance	C _j (f=1MHz, V _r =0V)	pF	1200
	C _j (f=1MHz, V _r =3V)	pF	240
Saturated Optical Power	P _s (V _r =0V)	mW	5(Min.3)
	P _s (V _r =3V)	mW	15
Reverse operating voltage	V _r	V	0-3
Shunt resistance	R _{sh} (V _r =10mV)	MΩ	100
Package	Hermetic package TO5 Can or with receptacle or fiber coupling		

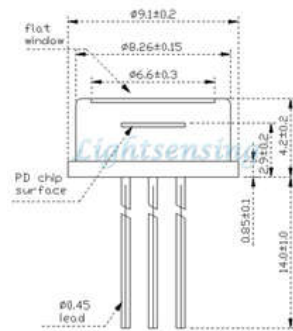
NOTICE: The above product specifications are subject to change without notice.

The typical Responsivity curve

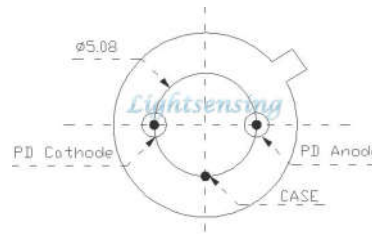

TO package and Lead



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

LSIPD-2S-X

- X=08.1-Au TO5 Can with flat window Φ 8.1mm Au cap(**Standard products**)
- X=08.26-Au TO5 Can with flat window Φ 8.26mm Au cap
- X=08.26 TO5 Can with flat window Φ 8.26mm nickel cap(**Standard products**)
- X=08.26A TO5 Can with flat window Φ 8.26mm nickel cap and Antireflection Coatings
- 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=CWFC-5/12/16/20dB TO5 Can with replaceable receptacle with FC connector and 5/12/16/20dB attenuation
- X=CWSC-5/12/16/20dB TO5 Can with replaceable receptacle with SC connector and 5/12/16/20dB attenuation
- X=CWLC-5/12/16/20dB TO5 Can with replaceable receptacle with LC connector and 5/12/16/20dB attenuation
- X=CWST-5/12/16/20dB TO5 Can with replaceable receptacle with ST connector and 5/12/16/20dB attenuation
- 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.

