400nm-1700nm 2mm InGaAs PIN Photodiode Version: 32 17-04-18

Model: LSIPD-2S

Features:

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

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

aluta maximum rational

08.1-Au



CWFC



08.26



20CWLC

20CWFC

20CWSC

20CWST

Absolute maximum ratings:					
parameter	symbol	value	unit		
Operating temperature	Тор	-40~+85	$^{\circ}\mathrm{C}$		
Storage temperature	Tstg	-40~+100	$^{\circ}\mathrm{C}$		
Forward current	l _f	15	mA		
Reverse voltage	Vr	10	V		
Soldering temperature(time)	Ts (10s)	260	$^{\circ}\!$		

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

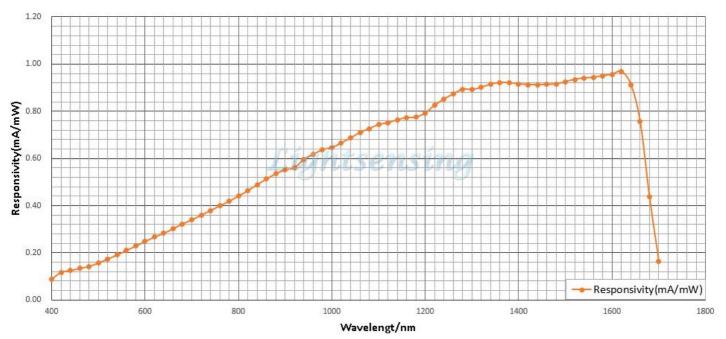
parameter	symbol	unit	Value (typ.)
Active diameter	Φ	mm	2
Spectral range	λ	nm	400-1700
Responsivity	Re(VR=0V,λ=405nm)	mA/mW	0.12
	Re(VR=0V,λ=650nm)	mA/mW	0.35
	Re(VR=0V,λ=850nm)	mA/mW	0.48
	Re(VR=0V,λ=1550nm)	mA/mW	0.90
Response time	Tr (R _L =50Ω,V _R =5V)	ns	35
Dark current	Id(VR=0V)	nA	0.1
	ld(VR=5V)	nA	5
Reverse Breakdown voltage	VBR (IR=10uA)	V	20
Junction capacitance	Cj (f=1MHz, VR=0V)	pF	1200
	Cj (f=1MHz, VR=5V)	pF	240
Saturated Optical Power	Ps(Vr =5V)	mW	12
Operating voltage	V _R	V	0-5
Shunt resistance	Rsh (VR=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.

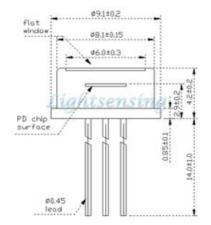
地址:北京市海淀区苏州街 12 号西屋国际 E 座 1201 邮编: 100080 Address: Building E Rm 1201, Westing house, No 12 Suzhou Street, Haidian District, Beijing 100080, China. TEL: +86-010-82873449 FAX: +86-010-62557230 Email: info@lightsensing.com Website: www.lightsensing.com

北京敏光科技有限公司 Beijing Lightsensing Technologies Ltd

The typical Responsivity curve

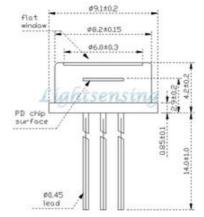


TO package and Lead

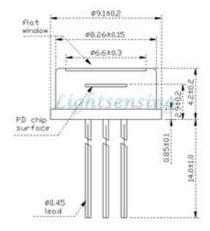




PD Cathode



flat window 8.20mm TO Model: 08.20



flat window 8.26mm TO Model: 08.26

Bottom View

Note: In order to get other dimensions, please contact us.

PD

CASE

Anode

Order information

0101

LSIPD-2S-X

X		
	X=08.1-Au	TO-5 Can with flat window Φ 8.1mm Au cap
	X=08.20	TO-5 Can with flat window Φ 8.2mm nickel cap
	X=08.26	TO-5 Can with flat window Φ 8.26mm nickel cap
	X=08.26A	TO-5 Can with flat window Φ 8.26mm nickel cap and Antireflection Coatings
	X=CWFC	TO-5 Can with replaceable receptacle with FC connector
	X=CWSC	TO-5 Can with replaceable receptacle with SC connector
	X=CWLC	TO-5 Can with replaceable receptacle with LC connector
	X=CWST	TO-5 Can with replaceable receptacle with ST connector
	X=CWFC-20dB	TO-5 Can with replaceable receptacle with FC connector and 20dB attenuation
	X=CWSC-20dB	TO-5 Can with replaceable receptacle with SC connector and 20dB attenuation
	X=CWLC-20dB	TO-5 Can with replaceable receptacle with LC connector and 20dB attenuation
	X=CWST-20dB	TO-5 Can with replaceable receptacle with ST connector and 20dB attenuation
	X=20CWFC	TO-5 Can with 20mm replaceable receptacle with FC connector
	X=20CWSC	TO-5 Can with 20mm replaceable receptacle with SC connector
	X=20CWST	TO-5 Can with 20mm replaceable receptacle with ST connector
	X=20CWLC	TO-5 Can with 20mm replaceable receptacle with LC connector
	X=20CWFC-1	TO-5 Can with 20mm replaceable receptacle with FC connector and better repeatability but with lower saturated power
	X=20CWSC-1	TO-5 Can with 20mm replaceable receptacle with SC connector and better repeatability but with lower saturated power
	X=20CWST-1	TO-5 Can with 20mm replaceable receptacle with ST connector and better repeatability but with lower saturated power
	X=20CWLC-1	TO-5 Can with 20mm replaceable receptacle with LC connector and better repeatability but with lower saturated power
	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.