

400nm-1700nm 2mm InGaAs PIN Photodiode

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



20CWST

20CWLC

Absolute maximum ratings:

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

20CWFC

20CWSC

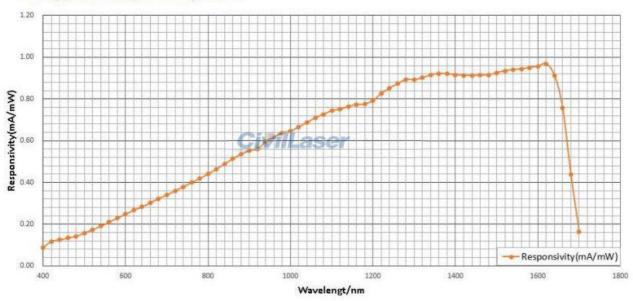
Electrical and optical characteristics:(T=25°C)

Electrical and optical en	arabtoriotioo.(1 20 c)		
parameter	symbol	unit	Value(typ.)
Active diameter	Ф	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 =5V)	ns	35
Dark current	Id(VR=0V)	nA	0.1
	Id(VR=5V)	nA	5
Reverse Breakdown voltage	VBR (IR=10uA)	V	20
Junction capacitance	Cj (f=1MHz, V _R =0V)	pF	1200
	Cj (f=1MHz, VR=5V)	pF	240
Saturated Optical Power	Ps(V _R =5V)	mW	12
Operating voltage	V _R	٧	0-5

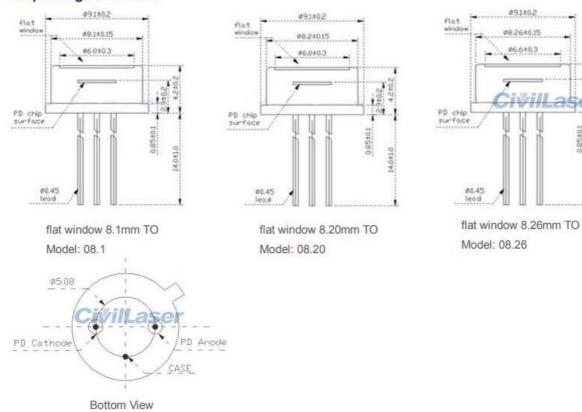
Shunt resistance	Rsh (VR=10mV)	ΜΩ	100
package	Hermetic package TO5 Can or with receptacle or fiber coupling		

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

The typical Responsivity curve



TO package and Lead



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

Order information

LSIPD-2S-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	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	5 Can with replaceable receptacle with SC connector	
X=CWLC TO-5	5 Can with replaceable receptacle with LC connector	
X=CWST TO-5	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 C	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 c	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.