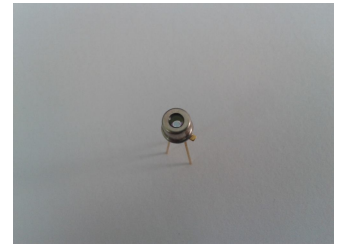


800-2100nm 500um InGaAs PIN Photodiode

Model: LSIPD21-0.5

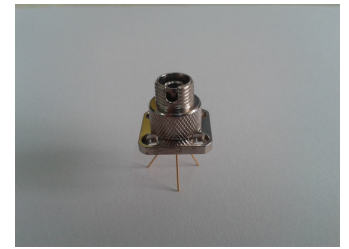
Features:

- Low noise, High reliability
- Top illumination planar PIN PD
- Active diameter 0.5mm
- Cut off wavelength to 2.1um



Applications:

- Gas Analyzer
- Environment measurement
- Science analysis and experiment
- Space light detect equipment
- Optical power meter
- NIR photometry
- Optical fiber sensor



Absolute maximum ratings:

parameter	symbol	value	unit
Operating temperature	Top	-40~+85	°C
Storage temperature	Tstg	-50~+125	°C
Forward current	I _f	10	mA
Reverse voltage	V _R	1	V
Power dissipation	W _p	100	mW
Soldering temperature(time)	T _s (10s)	260	°C

Electrical and optical characteristics:(T=25°C, V_R=0.5V)

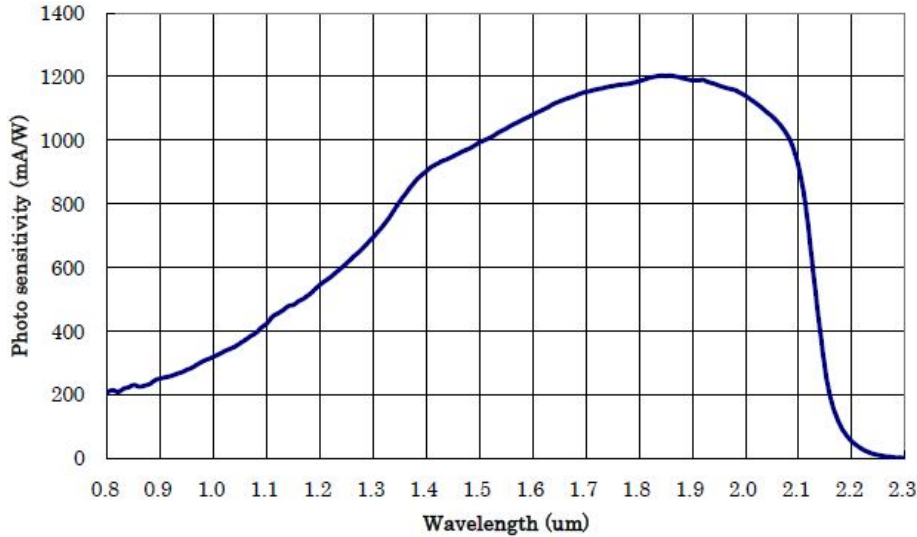
parameter	symbol	unit	Value (typ.)
Active diameter	Φ	mm	0.5
Spectral range	λ	nm	800-2100
Responsivity	Re (V _R =0.5V,λ=1310nm)	mA/mW	0.7
	Re(V _R =0.5V,λ=1600nm)	mA/mW	1.0
Response time	Tr (R _L =50Ω, V _R =0.5V)	ns	10
Dark current	I _D (V _R =0.5V)	nA	20
Reverse Breakdown voltage	V _{BR} (I _R =10uA)	V	1
Junction capacitance	C _j (f=1MHz, V _R =0.5V)	pF	70
Operating voltage	V _R	v	0-0.5
Shunt impedance	Rsh (V _R =10mV)	MΩ	0.5
package	TO-46		

地址: 北京市海淀区苏州街12号西屋国际A座1104 邮编: 100080

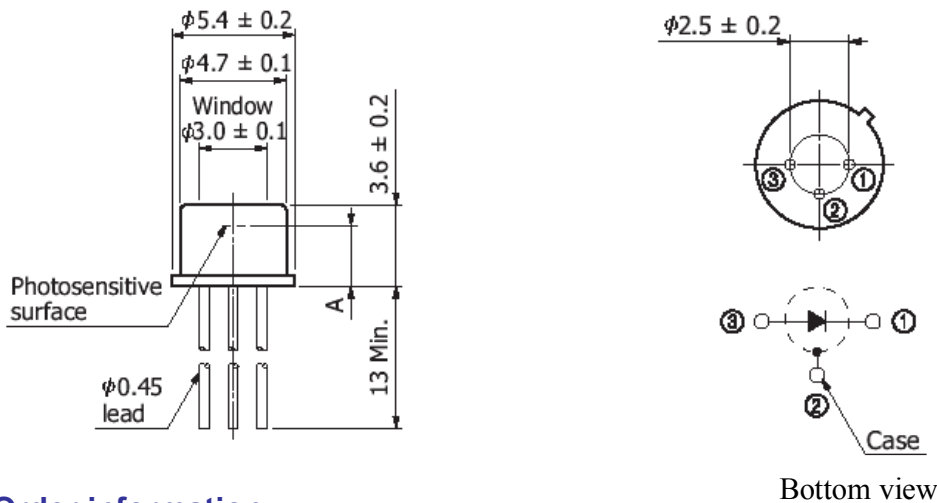
Address: Building A Rm 1104, Westing house, No 12 Suzhou Street,, Haidian District, Beijing 100080, China.

TEL: +86-010-53691988 FAX: +86-010-62557230 Email: info@lightsensing.com Website: www.lightsensing.com

The typical Sensitivity curve



The package and Lead



Order information

LSIPD21-0.5-X

- X=0 TO-46 Can with flat window cap
- X=SMFP SM Fiber coupling with FC-PC connector
- X=SMFA SM Fiber coupling with FC-APC connector
- X=SMSA SM Fiber coupling with SC-APC connector
- X=5MMFA 50um MM Fiber coupling with FC-APC connector
- X=6MMFA 62.5um MM Fiber coupling with FC-APC connector
- X=JKFC TO-46 Can with FC receptacle
- X=Other By customer's request

The cautions

- 1: The suitable ESD protection is required in storage, transportation and using
- 2: 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.

地址: 北京市海淀区苏州街 12 号西屋国际 A 座 1104 邮编: 100080

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