

2400nm Fast InGaAs PIN Photodiode

Version: 3.1 17-06-01

Model: LSIFPD24
Features:

- Low noise, High reliability
- 800-2400nm wide wavelength range
- -3dB Bandwidth up to 1.5GHZ
- Hermetic TO46 Can or with receptacle or with fiber coupling


Applications:

- Fast optical pulse testing
- Gas Analyzer
- Environment measurement
- Optical sensor
- Medical and Chemical analysis


Absolute maximum ratings:

parameter	symbol	value	unit
Operating temperature	Top	-30~+60	°C
Storage temperature	Tstg	-50~+80	°C
Forward current	I _f	3	mA
Soldering temperature(time)	T _s (10s)	260	°C

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

parameter	symbol	unit	Value (typ.)			
			1.5GHZ	1GHZ	0.8GHZ	0.15GHZ
Active diameter	Φ	um	80	80	80	80
Spectral range	λ	nm	800-2400	800-2400	800-2400	800-2400
Responsivity	Re (V _R =0V,850nm)	A/W	0.15	0.15	0.15	0.15
	Re(V _R =0V,1310nm)	A/W	0.78	0.78	0.78	0.78
	Re(V _R =0V,2100nm)	A/W	1.0	1.0	1.0	1.0
	Re(V _R =0V,2400nm)	A/W	0.15	0.15	0.15	0.15
Response time	Tr (R _L =50Ω)	ps	250 (V _R =3V)	350(V _R =1.5V)	450(V _R =1V)	3000(V _R =0V)
Dark current	I _D (V _R =0V)	uA	0.1	0.1	0.1	0.2
	I _D	uA	2 (V _R =3V)	2(V _R =1.5V)	2(V _R =1V)	0.2(V _R =0V)
Breakdown voltage	V _{BR} (I _R =10uA)	V	8	5	2	0.5
Junction capacitance	C _j (f=1MHz, V _R =0V)	pF	18	19	20	21
	C _j (f=1MHz)	pF	2 (V _R =3V)	3(V _R =1.5V)	4 (V _R =1V)	21 (V _R =0V)
Saturated optical Power	Ps(V _R =2V)	mW	2	2	2	2
Operating voltage	V _R	V	0-3	0-1.5	0-1	0
Shunt impedance	Rsh (V _R =10mV)	KΩ	100	80	60	20
package	Hermetic TO46 Can or with receptacle or with fiber coupling					

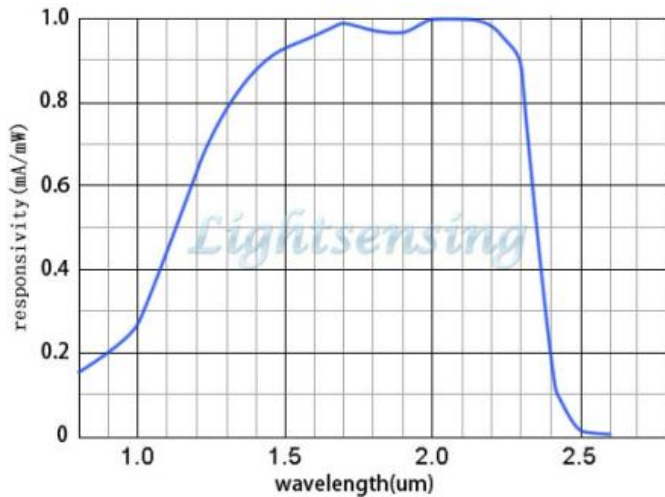
NOTICE: The above product specifications are subject to change without notice.

地址: 北京市海淀区苏州街 12 号西屋国际 E 座 1201 邮编: 100080

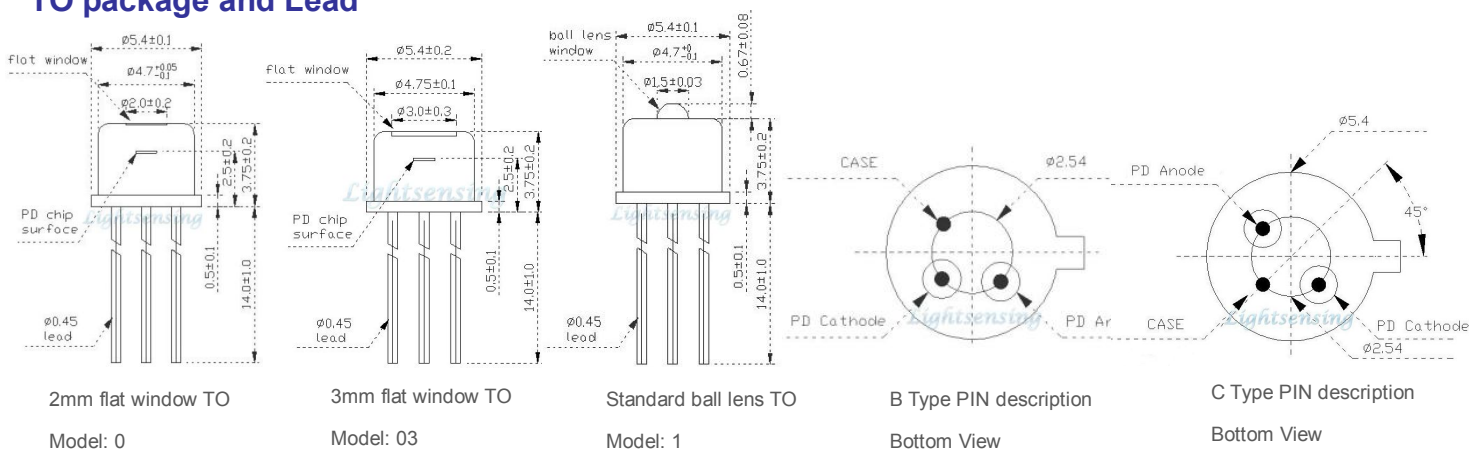
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The typical Sensitivity curve



TO package and Lead



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

Order information

LSIFPD24-X-X-X			
X=1.5G	B=B Type PIN description	X=0	TO-46 Can with 2mm flat window cap
X=1G	C=C Type PIN description	X=03	TO-46 Can with 3mm flat window cap
X=0.8G		X=1	TO-46 Can with ball lens cap
X=0.15G		X=SMFA/P	TO-46 Can with SM Fiber coupling with FC-APC/FC-PC connector
		X=SMSA	TO-46 Can with SM Fiber coupling with SC-APC connector
		X=5MMFA/P	TO-46 Can with 50um MM Fiber coupling with FC-APC/FC-PC connector
		X=6MMFA/P	TO-46 Can with 62.5um MM Fiber coupling with FC-APC/FC-PC connector
		X=10MMFA/P	TO-46 Can with 105um MM Fiber coupling with FC-APC/FC-PC connector
		X=2JKFC	TO-46 Can with fixed receptacle with FC connector and 2 pieces of fix holes
		X=4JKFC	TO-46 Can with fixed receptacle with FC connector and 4 pieces of fix holes
		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.

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