

2.5GHZ Fast Silicon PIN photodiode

Version: 3.1 17-03-01

Model: LSSFPD-2.5G
Features:

- High responsivity
- High speed up to 2.5 GHZ
- 400-1100nm spectral range
- Low capacitance
- Hermetic TO46 Can or with receptacle or with fiber coupling



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Fiber coupling

Applications:

- Optical communications
- Laser range finding and laser lidar
- Industrial automatic control
- laser pulse test
- Science analysis and experiment



2JKFC



4JKFC

Absolute maximum ratings:

parameter	symbol	value	unit
Operating temperature	Top	-40~+85	°C
Storage temperature	Tstg	-40~+85	°C
Forward current	I _f	3	mA
Reverse voltage	V _r	20	V
Soldering temperature(time)	T _s (10s)	260	°C

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

parameter	symbol	unit	Value (typ.)
Active area	Φ	um	200
Spectral range	λ	nm	400-1100
Responsivity	Re(V _R =10V,λ=405nm)	mA/mW	0.20
	Re(V _R =10V,λ=650nm)	mA/mW	0.35
	Re(V _R =10V,λ=850nm)	mA/mW	0.55
	Re(V _R =10V,λ=1064nm)	mA/mW	0.1
Response time	T _r (R _L =50Ω, V _R =10V)	ps	150
Band width(-3dB)	BW (R _L =50Ω, V _R =10V)	GHZ	2.5
Dark current	I _d (V _R =0V)	pA	0.1
	I _d (V _R =10V)	pA	100
Reverse Breakdown voltage	V _{BR} (I _R =10uA)	V	60
Junction capacitance	C _j (f=1MHz, V _R =0V)	pF	20
	C _j (f=1MHz, V _R =10V)	pF	1.0
Saturated Optical Power	P _s (V _R =10V)	mW	5
Operating voltage	V _R	V	0-15
Shunt resistance	R _{sh} (V _R =10mV)	GΩ	100
package	HermeticTO46 Can or with receptacle or with fiber coupling		

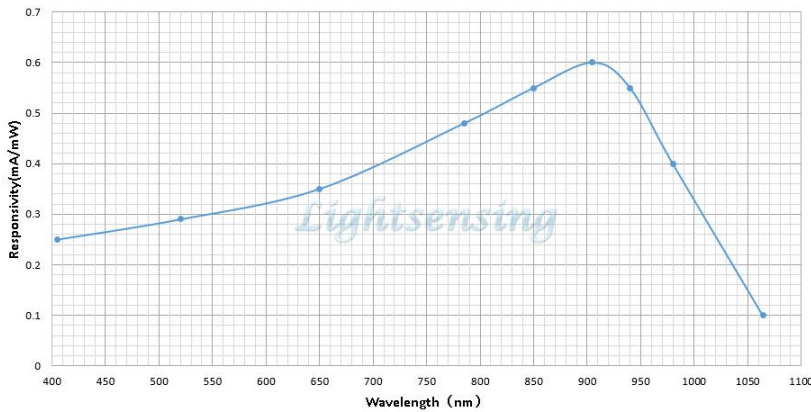
NOTICE: The above product specifications are subject to change without notice.

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

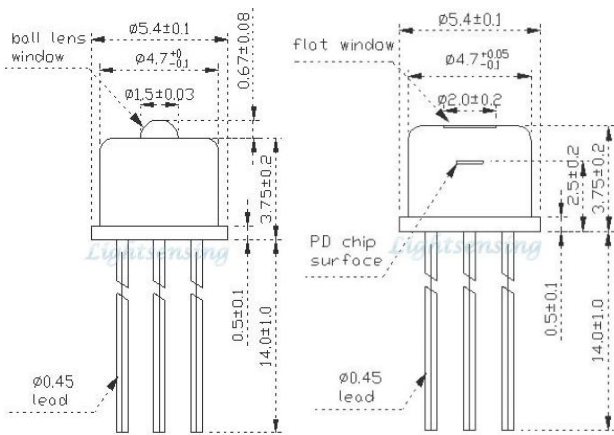
Address: Building E Rm 1201, Westing house, No 12 Suzhou Street,, Haidian District, Beijing 100080, China.

 TEL: +86-010-82873449 FAX: +86-010-62557230 Email: info@lightsensing.com Website: www.lightsensing.com

The typical characteristic curve



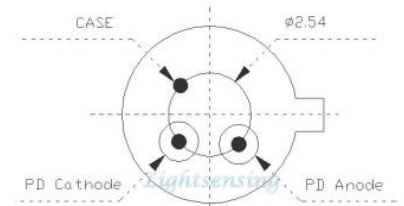
The package and Lead



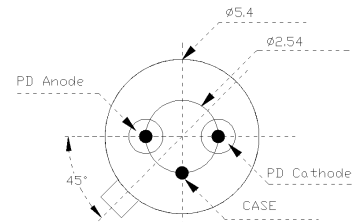
Standad ball lens TO
Model: 1

2mm flat window TO
Model: 0

3mm flat window TO
Model: 03



Type B PIN description
Bottom View



Type C1 PIN description
Bottom View

Order information

LSSFPD-2.5G-X-X

	X=0	TO-46 Can with 2mm flat window cap
	X=03	TO-46 Can with 3mm flat window cap
X=B	Type B PIN description	
X=C1	Type C1 PIN description	
	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=20MMFA/P	TO-46 Can with 200um 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. Example, We can provide photodiode with filter

The cautions

- 1: The above product specifications are subject to change without notice.
- 2: The suitable ESD protection is required in storage, transportation 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.