

2.5GHZ Analog InGaAs PIN photodiode

Version: 3.1 17-03-01

Model: LSIPD-A75

Features:

- High reliability, low dark current
- 800-1700nm spectral range
- -3dB Bandwidth up to 2.5GHZ
- Hermetic TO46 Can or with receptacle or with fiber coupling

Applications:

- Analog CATV and Fiber communication
- Fast optical pulse testing
- OTDR, Optical sensor
- Industrial automatic control
- Science analysis and experiment



S1

1

Fiber coupling



2JKFC

4JKFC

Absolute maximum ratings:

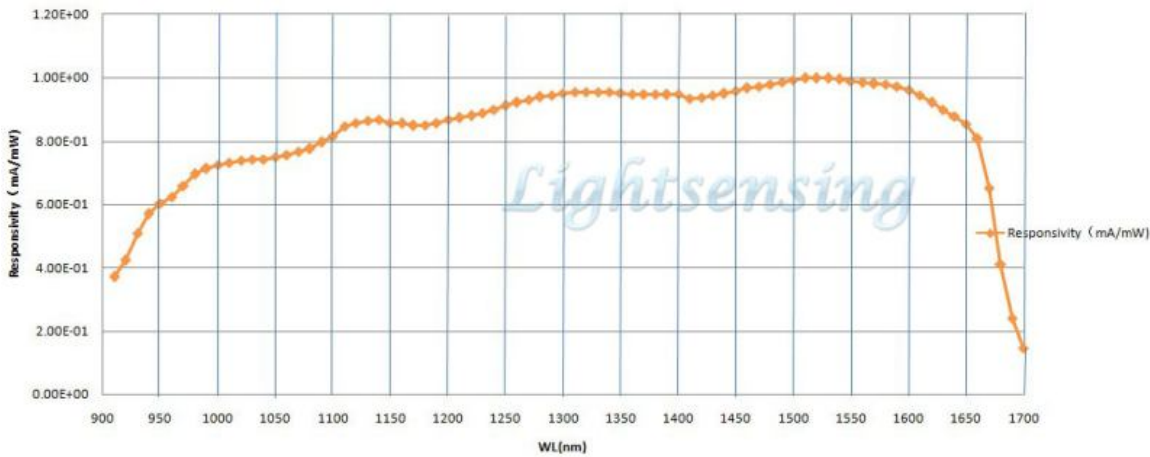
parameter	symbol	value	unit
Operating temperature	Top	-40~+85	°C
Storage temperature	Tstg	-40~+100	°C
Forward current	I _f	4	mA
Reverse voltage	V _r	20	V
Soldering temperature(time)	T _s (10s)	260	°C

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

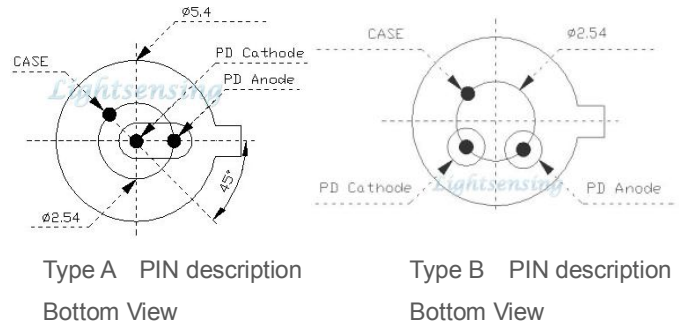
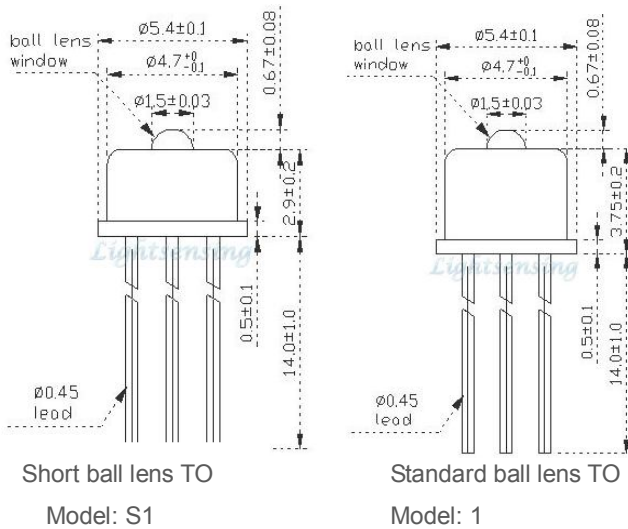
parameter	symbol	unit	Value (typ.)
Spectral range	λ	nm	800-1700
Active diameter	ϕ	um	75
Responsivity	Re(V _R =0V, λ =1310nm)	mA/mW	0.85
	Re(V _R =0V, λ =1550nm)	mA/mW	0.90
Response time	T _r (R _L =50 Ω ,V _R =5V)	ps	140
Band width(-3dB)	BW (R _L =50 Ω ,V _R =5V)	GHZ	2.5
Dark current	I _d (V _R =0V)	pA	0.2
	I _d (V _R =5V)	pA	30
Reverse Breakdown voltage	V _{BR} (I _R =10uA)	V	40
Junction capacitance	C _j (f=1MHz, V _R =0V)	pF	400
	C _j (f=1MHz, V _R =5V)	pF	1
Saturated Optical Power	P _s (V _R =5V)	mW	3.5
2nd Order Inter-modulation distortion	CSO(Two tones, R _L =50 Ω ,1mW, V _R =5V)	dBc	-75
Operating voltage	V _R	V	0-10
Shunt resistance	R _{sh} (V _R =10mV)	G Ω	50
package	Hermetic TO46 Can or with receptacle or with fiber coupling		

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

The typical Responsivity curve



TO package and Lead



Order information

LSIPD-A75-X-X

X=A	Type A PIN description	X=1	TO-46 Can with ball lens cap
X=B	Type B PIN description	X=1A	TO-46 Can with ball lens cap and Antireflection Coatings
		X=S1	TO-46 Can with short ball lens cap
		X=S1A	TO-46 Can with short ball lens cap and Antireflection Coatings
		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=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 hole
		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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