

50um Ultra low dark current Analog InGaAs PIN photodiode

V4.1HIPD-002 20-10-01

Model: LSIPD-LD50
Features:

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

Applications:

- Ultra Weak optical signal detecting
- Analog CATV, Fiber communication
- Fast optical pulse testing
- OTDR, Optical fiber sensor
- Industrial automatic control



S1



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2JKFC



Fiber coupling

Absolute maximum ratings:

parameter	symbol	value	unit
Operating temperature	Top	-40~+85	°C
Storage temperature	Tstg	-40~+100	°C
Reverse voltage	Vr	10	V
Soldering temperature(time)	Ts (10s)	260	°C

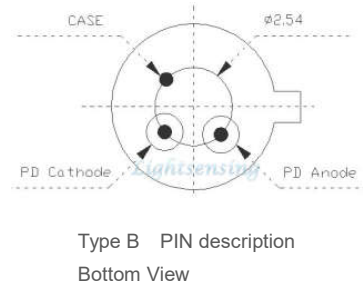
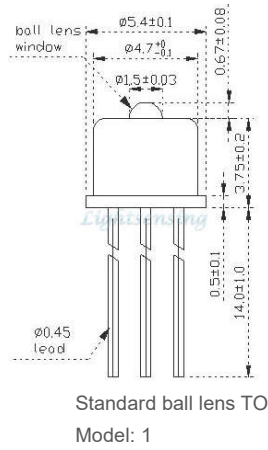
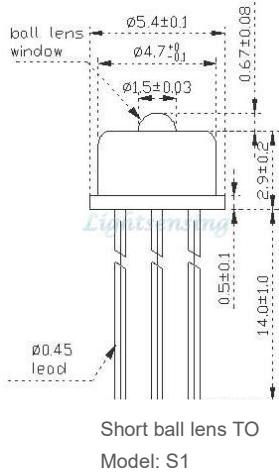
Electrical and optical characteristics:(T=25°C)

parameter	symbol	unit	Value (typ.)
Spectral range	λ	nm	800-1700
Responsivity for fiber coupling	Re(Vr=0V, λ =1310nm)	mA/mW	0.85
	Re(Vr=0V, λ =1550nm)	mA/mW	0.90
Responsivity for receptacle and SM fiber	Re(Vr=0V, λ =1310nm)	mA/mW	0.75
	Re(Vr=0V, λ =1550nm)	mA/mW	0.80
Response time	Tr (RL=50Ω,Vr=5V)	ps	120
Band width(-3dB)	Tr (RL=50Ω,Vr=5V)	GHz	3
Dark current	Id(Vr=0V)	pA	0.1
	Id(Vr=5V)	pA	5
Reverse Breakdown voltage	VBR (Id=10uA)	V	40
Total capacitance	Cj (f=1MHz, Vr=0V)	pF	320
	Cj (f=1MHz, Vr=5V)	pF	0.8
Saturated Optical Power	Ps(Vr=5V)	mW	3
2nd Order Inter-modulation distortion	CSO(Two tones, RL=50Ω,1mW, VR=10V)	dBc	-75
Reverse operating voltage	Vr	V	0-15
Shunt resistance	Rsh (Vr=10mV)	GΩ	100
package	Hermetic TO46 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: For more information on dimension, please contact us.

Order information

LSIPD-LD50-X-X-X-X

X=B Type B PIN description
X=other

- X=S1 TO46 Can with short ball lens cap
- X=S1A TO46 Can with short ball lens cap and Antireflection Coatings(**Standard products**)
- X=1 TO46 Can with ball lens cap
- X=1A TO46 Can with ball lens cap and Antireflection Coatings(**Standard products**)
- X=SMFA/P TO46 Can with SM Fiber coupling with FC-APC/FC-PC connector(**Standard products**)
- X=SMSA/P TO46 Can with SM Fiber coupling with SC-APC/SC-PC connector
- X=5MMFA/P TO46 Can with 50um MM Fiber coupling with FC-APC/FC-PC connector
- X=6MMFA/P TO46 Can with 62.5um MM Fiber coupling with FC-APC/FC-PC connector
- X=2JKFC TO46 Can with fixed receptacle with FC connector and 2 mounting holes
- X=Other By customer's request

Fiber length
X= Default 1m
X=0.3m,0.5m or other

Tube
X= Default 0.9mm tight tube
X=S 0.9mm Loose

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.

