0.3mm InGaAs PIN photodiode

Version: 3.1 17-03-01

Model: LSIPD-L0.3

Features:

- High reliability, low dark current
- 800-1700nm spectral range
- Active diameter 0.3mm
- Hermetic TO46 Can or with receptacle or with fiber coupling


1


S1


Fiber coupling

Applications:

- Optical sensor and Optical power meter
- Industrial automatic control
- Science analysis and experiment
- Space light detect equipment
- Response spectrum testing


2JKFC


4JKFC

Absolute maximum ratings:

parameter	symbol	value	unit
Operating temperature	Top	-40～+85	℃
Storage temperature	Tstg	-40～+100	℃
Forward current	I_f	6	mA
Reverse voltage	V_r	20	V
Soldering temperature(time)	Ts（10s）	260	℃

Electrical and optical characteristics:(T=25℃)

parameter	symbol	unit	Value（typ.）
Active diameter	Φ	mm	0.3
Spectral range	λ	nm	800-1700
Responsivity	Re(V_R=0V,λ=1310nm)	mA/mW	0.85
	Re(V_R=0V,λ=1550nm)	mA/mW	0.90
Response time	Tr (R_L=50Ω,V_R=5V)	ns	1
Dark current	Id(V_R=0V)	nA	0.01
	Id(V_R=5V)	nA	0.5
Reverse Breakdown voltage	V_{BR} (I_R=10uA)	V	30
Junction capacitance	Cj (f=1MHz, V_R=0V)	pF	700
	Cj (f=1MHz, V_R=5V)	pF	7
Saturated Optical Power	Ps(V_R =5V)	mW	5
Operating voltage	V_R	V	0-10
Shunt resistance	R_{sh} (V_R=10mV)	GΩ	1
package	Hermetic TO46 Can or with receptacle or with fiber coupling		

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

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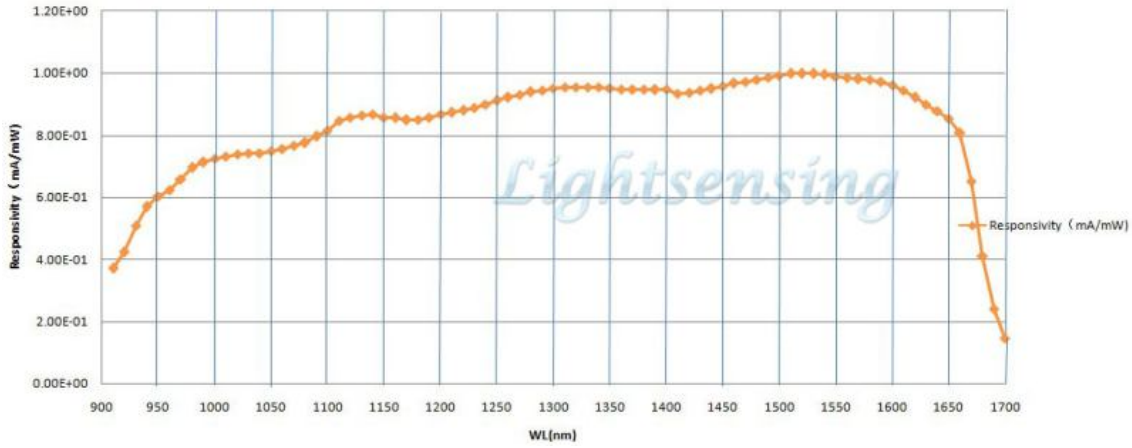
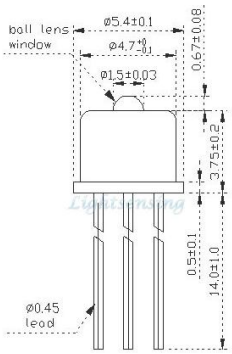
The typical Responsivity curve

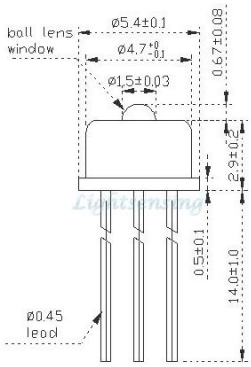


TO package and Lead



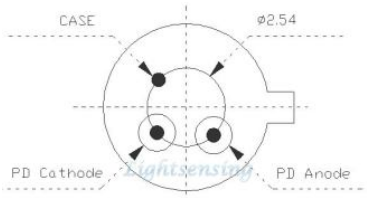
Standard ball lens cap TO

Model: 1



Short ball lens cap TO

Model: S1



Type B PIN description

Bottom View

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

Order information

LSIPD-L0.3-X-X

X=B	Type B PIN description
X=other	By customer's request

X=1	TO-46 Can with ball lens cap
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 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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