low dark current 0.5mm InGaAs PIN photodiode

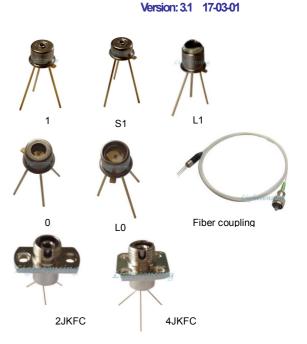
Model: LSIPD-UL0.5

Features:

- High reliability, Ultra low dark current, low capacitance
- 800-1700nm spectral range
- Active diameter 0.5mm
- Hermetic TO46 Can or with receptacle or with fiber coupling

Applications:

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



Absolute maximum ratings:

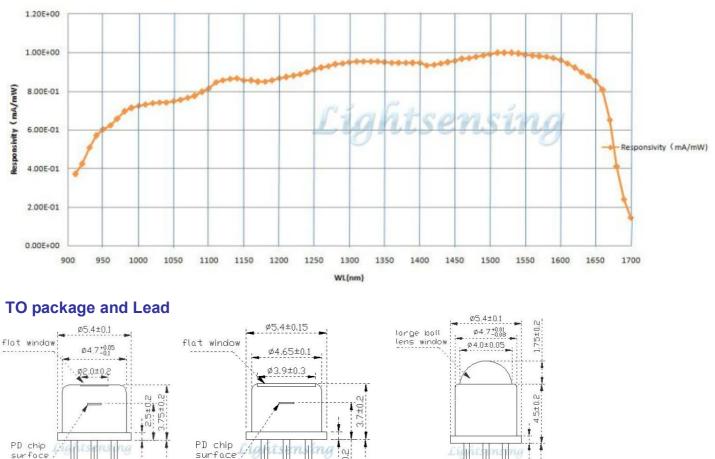
Absolute maximum ratings.				
parameter	symbol	value	unit	
Operating temperature	Тор	-40~+85	°C	
Storage temperature	Tstg	-40~+100	°C	
Forward current	l _f	8	mA	
Reverse voltage	Vr	20	V	
Soldering temperature(time)	Ts (10s)	260	°C	

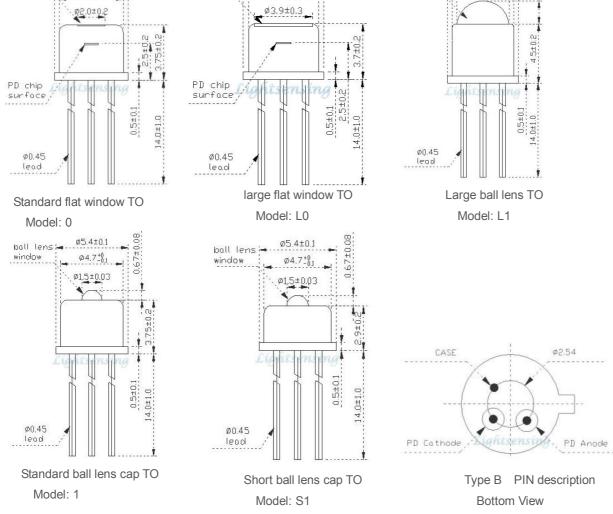
Electrical and optical characteristics:(T=25°C)

parameter	symbol	unit	Value (typ.)
Active diameter	Φ	mm	0.5
Spectral range	λ	nm	800-1700
Responsivity	Re(VR=0V,λ=1310nm)	mA/mW	0.85
	Re(VR=0V,λ=1550nm)	mA/mW	0.90
Response time	Tr (R _L =50Ω,V _R =5V)	ns	3
Dark current	Id(VR=0V)	рА	3
	ld(V _R =5V)	рА	35
Reverse Breakdown voltage	VBR (IR=10uA)	V	30
Junction capacitance	Cj (f=1MHz, VR=0V)	pF	1000
	Cj (f=1MHz, VR=5V)	pF	19
Saturated Optical Power	Ps(Vr =5V)	mW	6
Operating voltage	V _R	V	0-10
Shunt resistance	Rsh (VR=10mV)	GΩ	3
package	Hermetic TO46 Can or with receptacle or with fiber coupling		

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

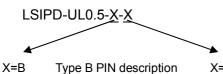
The typical Responsivity curve





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

Order information



X=other By customer's request

-	
X=0	TO-46 Can with 2mm flat window cap
X=0A	TO-46 Can with 2mm flat window cap and Antireflection Coatings
X=L0	TO-46 Can with 3.9mm flat window cap
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=L1	TO-46 Can with large ball lens cap
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=10MMA/P	TO-46 Can with 105um MM Fiber coupling with FC-APC/FC-PC connector
X=20MMA/P	TO-46 Can with 200um MM Fiber coupling with FC-APC/FC-PC connector
X=40MMA/P	TO-46 Can with 400um 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.