Mini Low Dark Current 0.3mm Anolog InGaAs PIN photodiode

Version: 3.1.1 18-09-09

Model: LSIPD-UL0.3

Features:

- High reliability, Ultra low dark current
- Top illumination Planar PIN PD
- Active diameter 0.3mm
- Very small package:2mm Mini TO Can or fiber coupling


2P-M0


2P-M1


1P-M1

Applications:

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


Fiber coupling for 2P-M1


Bare Fiber coupling for 1P-M1

Absolute maximum ratings:

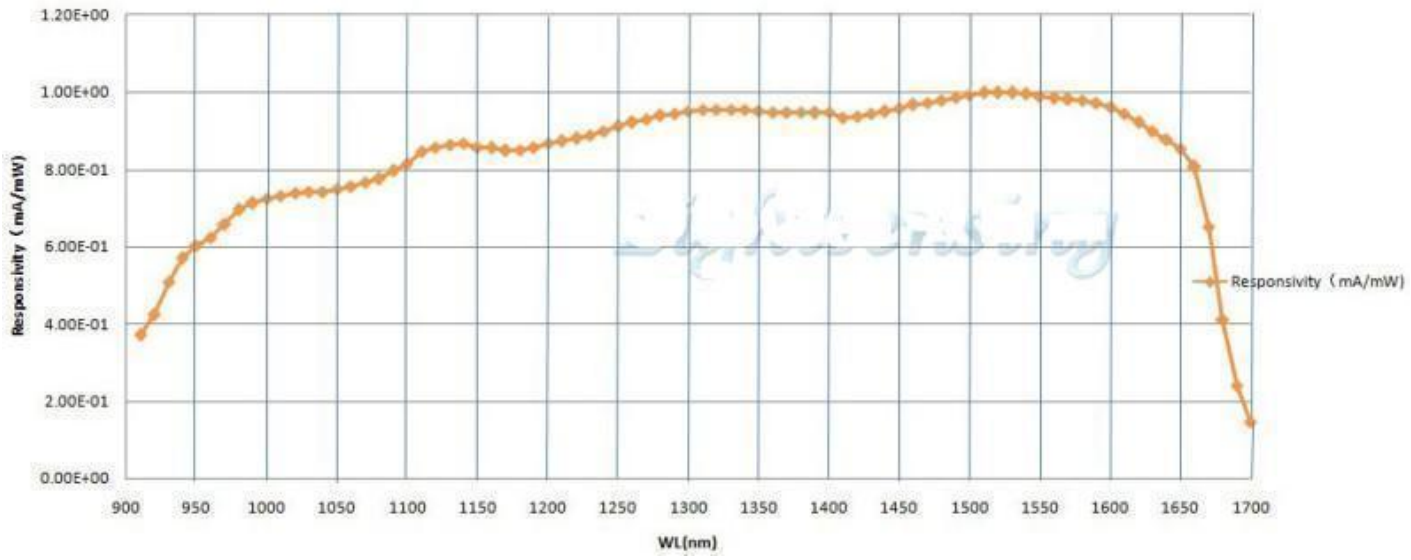
parameter	symbol	value	unit
Operating temperature	Top	-40～+85	℃
Storage temperature	Tstg	-40～+100	℃
Forward current	I_f	6	mA
Reverse voltage	V_r	20	V
Soldering temperature(time)	Ts（10s）	260	℃

Electrical and optical characteristics:(T=25℃)

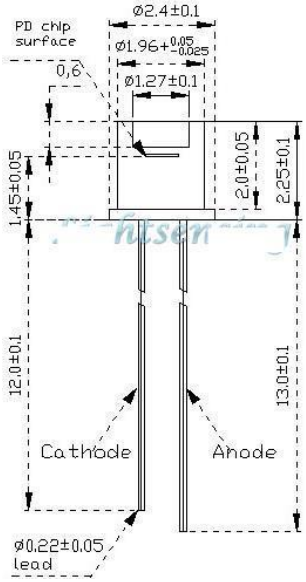
parameter	symbol	unit	Value（typ.）
Active diameter	Φ	mm	0.3
Spectral range	λ	nm	800-1700
Responsivity	Re(V_R=0V,λ=1310nm)	mA/mW	0.85
	Re(V_R=0V,λ=1550nm)	mA/mW	0.90
Response time	Tr (R_L=50Ω,V_R=5V)	ns	0.8
Dark current	Id(V_R=0V)	pA	2
	Id(V_R=5V)	pA	20
Reverse Breakdown voltage	V_{BR} (I_R=10uA)	V	30
Junction capacitance	Cj (f=1MHz, V_R=0V)	pF	900
	Cj (f=1MHz, V_R=5V)	pF	5
Saturated Optical Power	Ps(V_R =5V)	mW	5
Operating voltage	V_R	V	0-10
Shunt resistance	R_{sh} (V_R=10mV)	GΩ	5
package	2mm Mini TO Can or fiber coupling		

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

The typical Responsivity curve

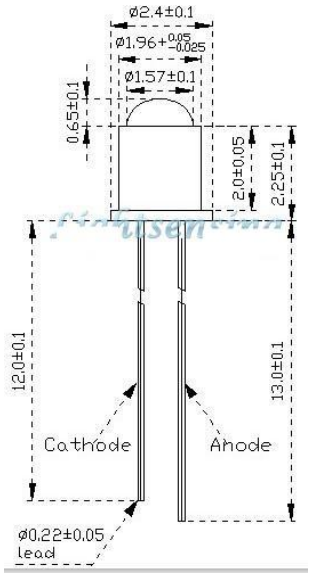


Mini TO package and Lead



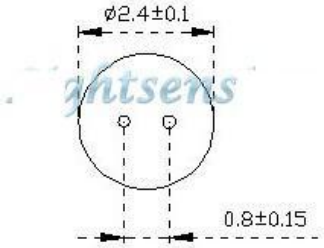
flat window Mini 2PIN TO

Model: 2P-M0

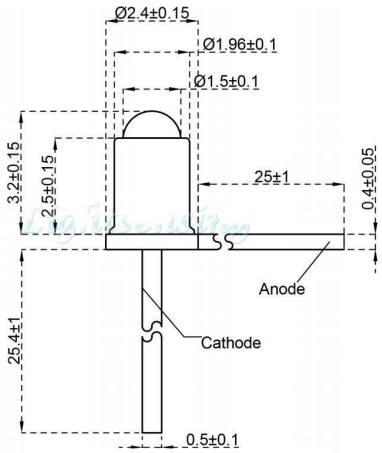


ball lens Mini 2PIN TO

Model: 2P-M1

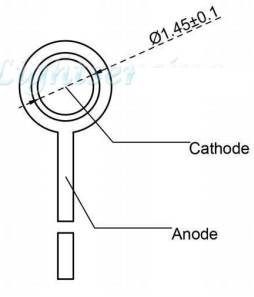


Bottom View of Mini 2PIN TO



ball lens Mini 1PIN TO

Model: 1P-M1

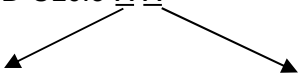


Bottom View of Mini 1PIN TO

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

Order information

LSIPD-UL0.3-X-X



PIN Description

X=2P 2 parallel PIN

X=1P 1 parallel PIN

X=Other

X=M0	Mini Can with flat window cap
X=M1	Mini Can with ball lens cap
X=M1-SMFA/P	Mini Can with SM Fiber coupling with FC-APC/FC-PC connector
X= M1-SMSA	Mini Can with SM Fiber coupling with SC-APC connector
X= M1-5MMFA/P	Mini Can with 50um MM Fiber coupling with FC-APC/FC-PC connector
X= M1-6MMFA/P	Mini Can with 62.5um MM Fiber coupling with FC-APC/FC-PC connector
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.