0.5mm InGaAs PIN photodiode M0.5 for methane

V4.1LIPD-004B 20-10-01

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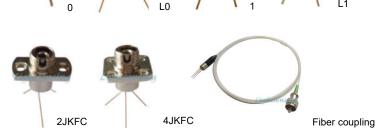
Model: LSIPD-M0.5

Features:

- High reliability, low dark current •
- 800-1740nm spectral range •
- High responsivity at 1650nm in low Temp.
- Active diameter 0.5mm
- Hermetic TO46 Can or with receptacle or fiber coupling

Applications:

- Gas sensor for methane
- **Optical sensor**
- Optical power meter
- Science analysis and experiment
- Response spectrum testing



Absolute maximum ratings:

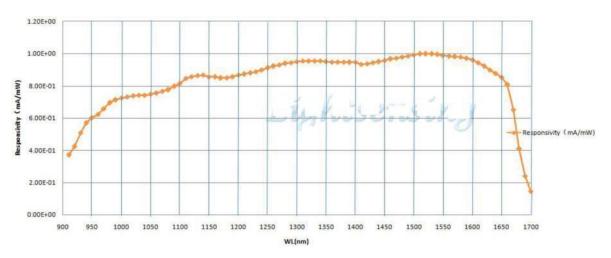
Aboolato maximum ratingo.				
parameter	symbol	value	unit	
Operating temperature	Тор	-40~+85	°C	
Storage temperature	Tstg	-40~+100	°C	
Reverse voltage	Vr	10	V	
Soldering temperature(time)	Ts (10s)	260	°C	

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

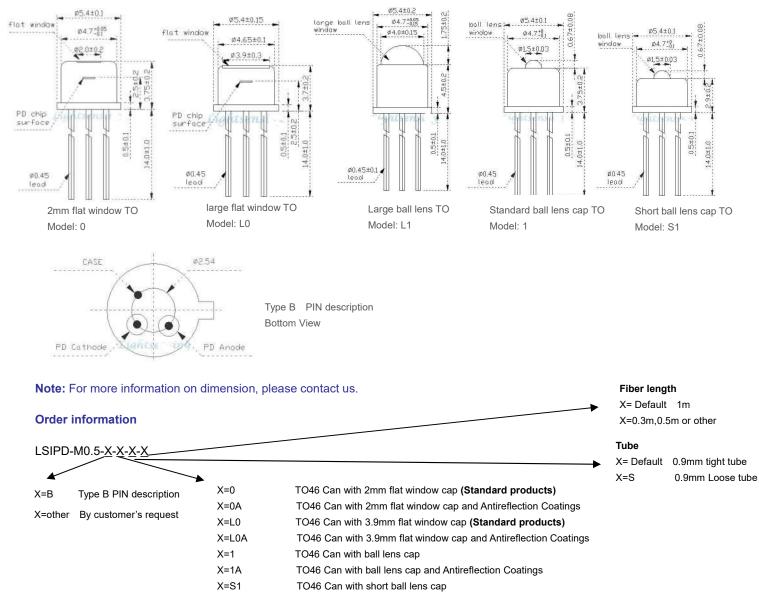
Electrical and optical character	eristics:(1=25°C)		
parameter	symbol	unit	Value typ.
Active diameter	Φ	um	500
Spectral range	λ	nm	800-1740
Responsivity	Re(Vr=0V,λ=1310nm)	mA/mW	0.95
	Re(Vr=0V,λ=1550nm)	mA/mW	1.0
	Re(Vr=0V,λ=1650nm,)	mA/mW	0.90
	Re(Vr=0V,λ=1650nm, -30 ℃)	mA/mW	0.65
Response time	Tr (R _L =50Ω,Vr=5V)	ns	3
Dark current	Id(Vr=0V)	nA	0.05
	Id(Vr=5V)	nA	0.5
Reverse Breakdown voltage	V _{BR} (Id=10uA)	V	30
Total capacitance	Cj (f=1MHz, Vr=0V)	pF	1500
	Cj (f=1MHz, Vr=5V)	pF	15
Saturated Optical Power	Ps(Vr=5V)	mW	8
Reverse operating voltage	Vr	V	0-5
Shunt resistance	Rsh (Vr=10mV)	ΜΩ	200
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



TO46 Can with short ball lens cap and Antireflection Coatings

TO46 Can with SM Fiber coupling with FC-APC/FC-PC connector

TO46 Can with 50um MM Fiber coupling with FC-APC/FC-PC connector

TO46 Can with fixed receptacle with FC connector and 2 mounting holes

TO46 Can with fixed receptacle with FC connector and 4 mounting holes

TO46 Can with 62.5um MM Fiber coupling with FC-APC/FC-PC connector

TO46 Can with large ball lens cap (Standard products)

TO46 Can with SM Fiber coupling with SC-APC connector

The cautions

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

X=S1A

X=SMFA/P

X=5MMFA/P

X=6MMFA/P

X=2JKFC

X=4JKFC

X=Other

X=SMSA

X=L1

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.

By customer's request

