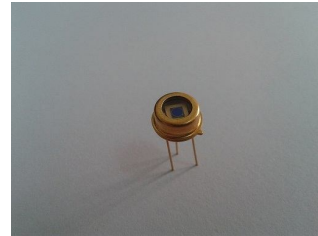


800nm-2400nm 2mm InGaAs PIN photodiode

Model: LSIPD24-2

Features:

- High reliability, low dark current
- Top illumination planar PD
- Large active diameter 2mm
- Cut off wavelength to 2400nm
- To-5 package



Applications:

- Gas Analyzer
- Environment measurement
- Science analysis and experiment
- Space light detect equipment
- Optical power meter
- NIR photometry
- Optical fiber sensor



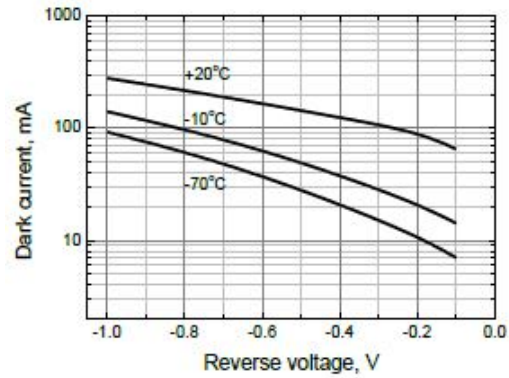
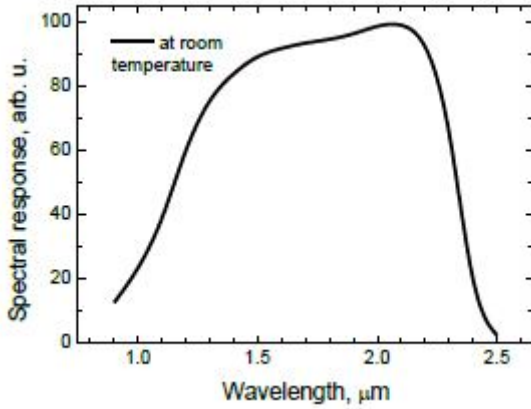
Absolute maximum ratings:

parameter	symbol	value	unit
Operating temperature	Top	-20~+50	°C
Storage temperature	Tstg	-55~+70	°C
Forward current	I _f	10	mA
Reverse voltage	V _r	1.5	V
Reverse current	I _r	1	mA
Soldering temperature(time)	T _s (10s)	260	°C

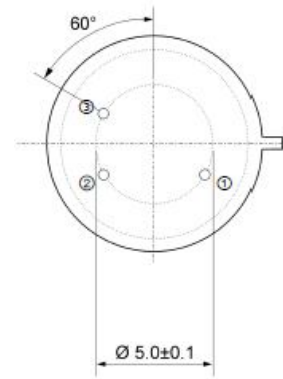
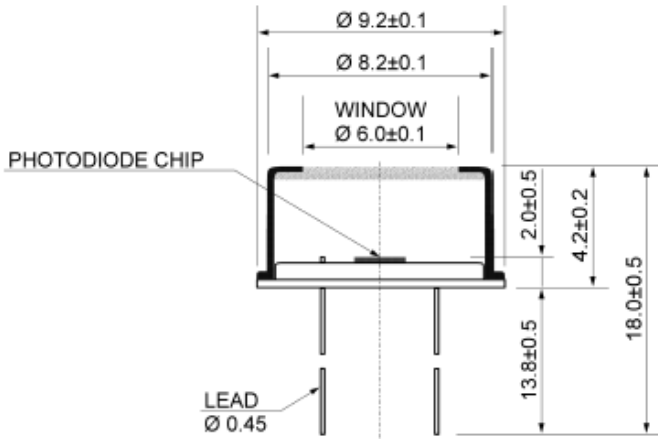
Electrical and optical characteristics:(T=25°C)

parameter	symbol	unit	Value (typ.)
Spectral range	λ	nm	800-2400
Active diameter	\varnothing	mm	2
Responsivity	Re (V _R =-0.2V, λ =800nm)	mA/mW	0.08
	Re(V _R =-0.2V, λ =2100nm)	mA/mW	1.0
	Re(V _R =-0.2V, λ =2400nm)	mA/mW	0.10
Rise time	Tr (R _L =50 Ω , V _R =-0.2V)	us	1
Dark current	I _D (V _R =-0.2V)	uA	100
Reverse Breakdown voltage	V _{BR} (I _R =10uA)	V	1.5
Junction capacitance	C _j (f=1MHz, V _R =-0.2V)	nF	3
Saturated Optical Power	Ps(V _R =-0.2V)	mW	10
Operating voltage	V _R	v	0-0.5
package	TO-5		

The typical characteristic curve



The package and Lead



Pin	Description
①	Detector (anode)*
②	Not applicable
③	Detector (cathode)* GND

*Special order: the pin polarity can be changed.

Order information

LSIPD24-2-X

- X=0 TO-5 Can with flat window cap
- X=JKFC TO-5 Can with FC receptacle
- X=Other By customer's request

The cautions

1: The suitable ESD protection is required in storage, transportation and using