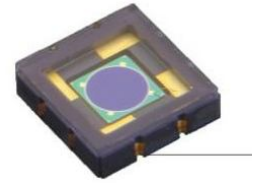


## 400nm-1700nm 2mm InGaAs PIN Photodiode

### Model: LSIPD-2S

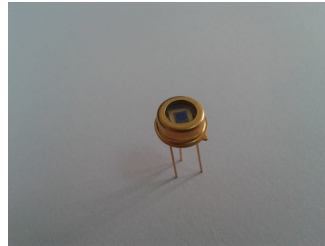
#### Features:

- Low noise, High reliability
- Top illumination planar PIN PD
- Lager active diameter 2mm
- Down to 400nm



#### Applications:

- Covert IR sensing
- Medical and Chemical analysis
- Spectrography
- Optical power meter
- Temperature sensing
- Light Detection and ranging



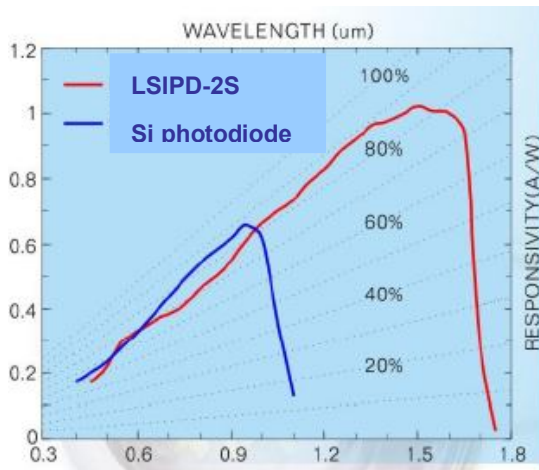
#### Absolute maximum ratings:

parameter	symbol	value	unit
Operating temperature	Top	-20~+85	°C
Storage temperature	Tstg	-40~+85	°C
Forward current	I <sub>f</sub>	20	mA
Reverse current	I <sub>r</sub>	10	mA
Soldering temperature(time)	T <sub>s</sub> (10s)	260	°C

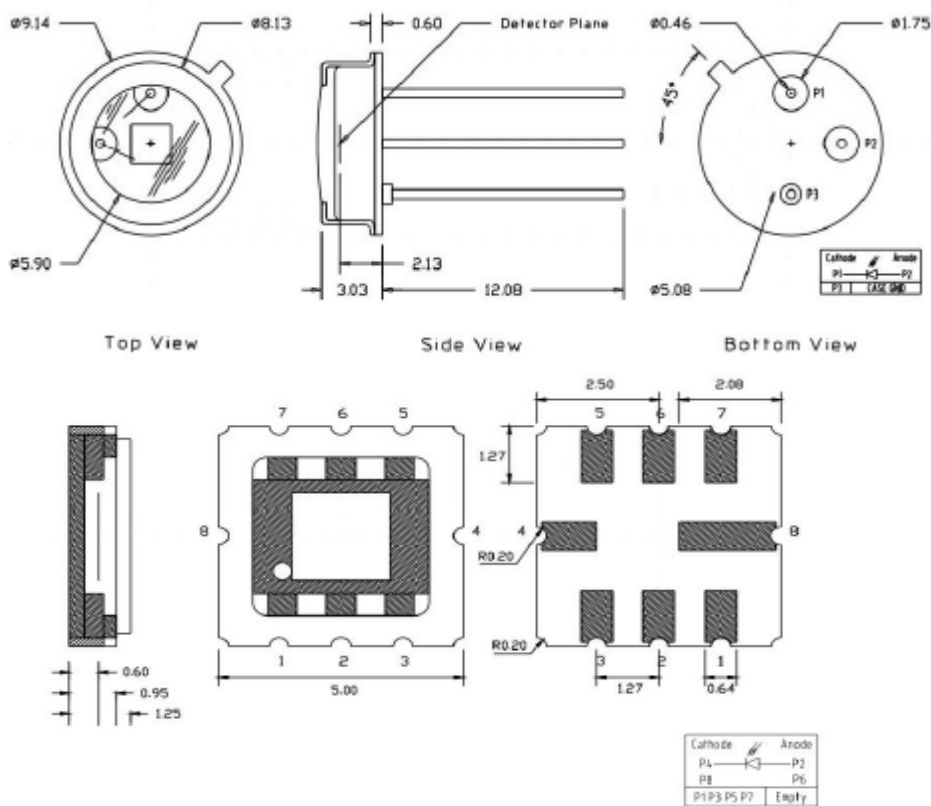
#### Electrical and optical characteristics:(T=25°C)

parameter	symbol	unit	Value (typ.)	
Active diameter	Φ	mm	2	
Package type			TO-5	Ceramic-2
Spectral range	λ	nm	400-1700	
Responsivity (V <sub>R</sub> =0V)	R(λ=405nm )	mA/mW	0.09	
	R(λ=650nm)	mA/mW	0.3	
	R(λ=1550nm )	mA/mW	1.0	
	R(λ=1700nm)	mA/mW	0.15	
Dark current	I <sub>D</sub> (-5V)	nA	10	
Reverse Breakdown voltage	V <sub>BR</sub> (I <sub>R</sub> =10uA)	V	20(max)	
Junction capacitance	C <sub>j</sub> (f=1MHz,0V)	pF	400	600
Operating voltage	V <sub>R</sub>	v	0-5	
Shunt resistance	Rsh	MΩ	25	
NEP@1550nm	Nep	PW/Hz <sup>1/2</sup>	0.04	

### The typical characteristic curve and application electric circuit



### The package and Lead



TO-5

Ceramic-2

### Order information

LSIPD-2s- X

- X=0 TO-5 Can with flat window cap
- X=C Ceramic-2 package
- X=JKFC TO-5 Can with removable FC receptacle
- X=Other By customer's request

### The cautions

The suitable ESD protecting measures are recommended in storage, transporting and using.