

3600nm Fast InGaAs PIN Photodiode

Version: 3.1 17-06-01

Model: LSIFPD36-1.5G

Features:

- Low noise, High reliability
- 1500-3600nm wide wavelength range
- -3dB Bandwidth up to 1.5GHZ
- Hermetic TO46 Can with IR flat window



Applications:

- Fast optical pulse testing
- Gas Analyzer
- Environment measurement
- Optical sensor
- Medical and Chemical analysis

Absolute maximum ratings:

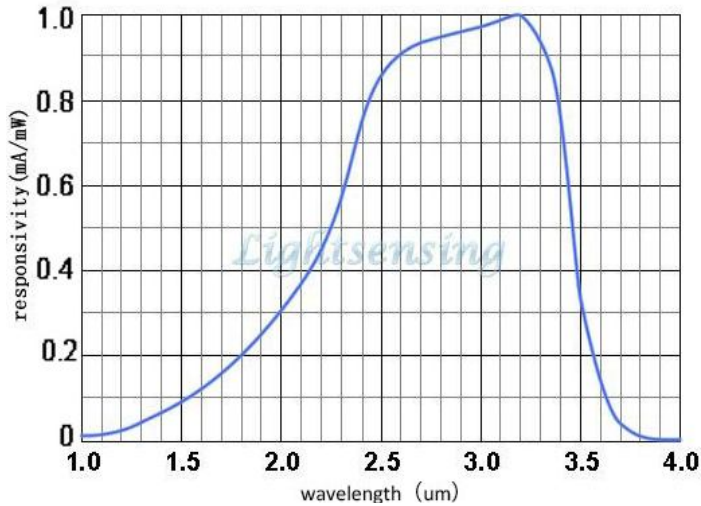
parameter	symbol	value	unit
Operating temperature	Top	-30~+60	°C
Storage temperature	Tstg	-40~+80	°C
Forward current	I _f	3	mA
Soldering temperature(time)	Ts (10s)	260	°C

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

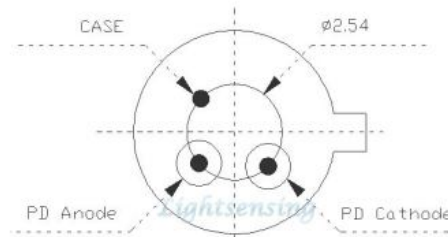
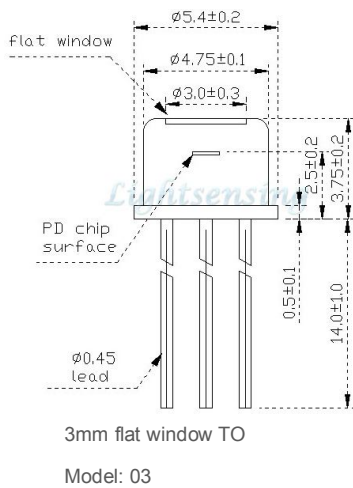
parameter	symbol	unit	Value (typ.)	
			1.5GHZ	0.15GHZ
Active diameter	Φ	um	80	80
Spectral range	λ	nm	1500-3600	1500-3600
Responsivity	Re (V _R =0V,λ=1500nm)	mA/mW	0.10	0.10
	Re (V _R =0V,λ=2500nm)	mA/mW	0.85	0.85
	Re(V _R =0V,λ=3200nm)	mA/mW	1.0	1.0
	Re(V _R =0V,λ=3600nm)	mA/mW	0.10	0.10
Response time	Tr (R _L =50Ω)	ps	250(V _R =0.8V)	3000(V _R =0V)
Dark current	I _D (V _R =0V)	uA	5	10
	I _D	uA	75(V _R =0.8V)	10(V _R =0V)
Reverse Breakdown voltage	V _{BR} (I _R =100uA)	V	1	0.5
Junction capacitance	C _j (f=1MHz, V _R =0V)	pF	15	20
	C _j (f=1MHz)	pF	1.5(V _R =0.8V)	20(V _R =0V)
Saturated Optical Power	Ps	mW	4	4
Operating voltage	V _R	V	0-0.8	0
Shunt impedance	Rsh (V _R =10mV)	kΩ	2	1
package	Hermetic TO46 Can with IR flat window			

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

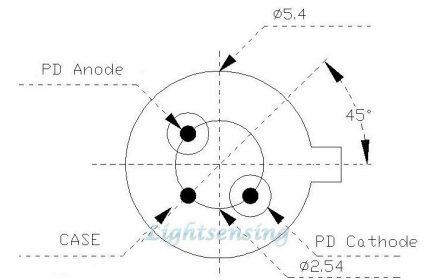
The typical Sensitivity curve



TO package and Lead



B1 Type PIN description
Bottom View



C Type PIN description
Bottom View

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

Order information

LSIFPD36- X -X-X

X=1.5G

B1=B1 Type PIN description

X=03

TO-46 Can with 3mm IR flat window cap

X=0.15G

C=C Type PIN description

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.