

## 800nm-1700nm Fast InGaAs PIN Photodiode module

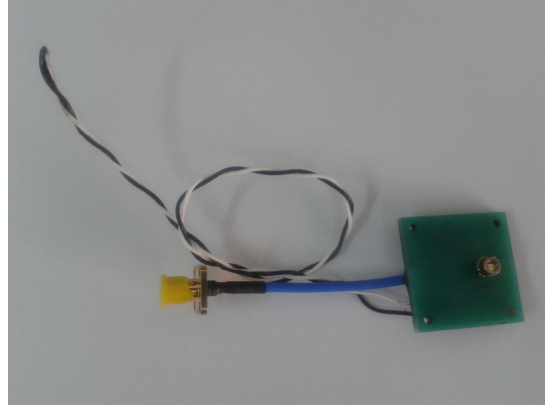
### Model: LSIFPD-17PCB

#### Features:

- Low noise, High reliability
- Top illumination planar PIN PD
- Fast up to 6GHZ
- 50  $\Omega$  output

#### Applications:

- Short light pulse waveform test
- Science analysis and experiment



#### Absolute maximum ratings:

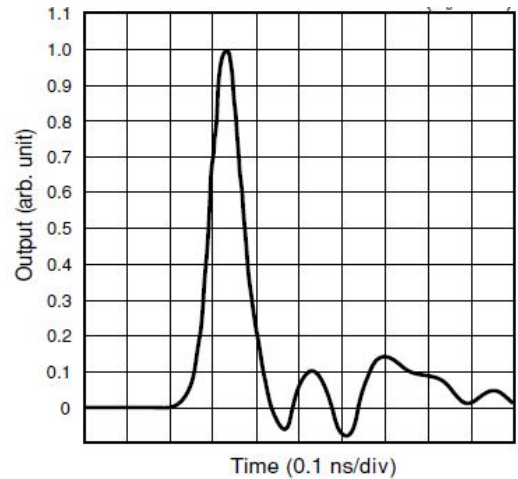
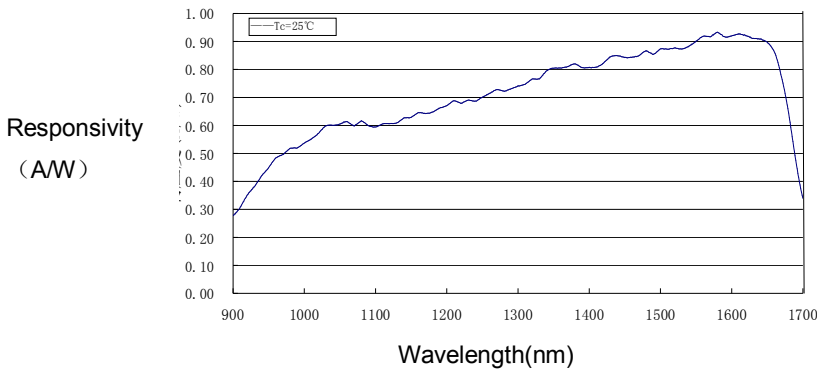
parameter	symbol	value	unit
Operating temperature	Top	-40~+100	°C
Storage temperature	Tstg	-50~+125	°C
Forward current	I <sub>f</sub>	10	mA
Operating voltage	V <sub>R</sub>	12	V
Power dissipation	W <sub>p</sub>	100	mW
Soldering temperature(time)	T <sub>s</sub> (10s)	260	°C

#### Electrical and optical characteristics:(T=25°C, V<sub>R</sub>=9V)

parameter	symbol	unit	Value (typ.)
Active diameter	$\Phi$	um	40-300
Spectral range	$\lambda$	nm	800-1700
Responsivity	Re ( $\lambda=1550\text{nm}$ )	mA/mW	0.8
Response time	Tr (R <sub>L</sub> =50 $\Omega$ , -9V)	ps	60-1000
Dark current	I <sub>D</sub> (-9V)	nA	1
Operating voltage	V <sub>R</sub>	v	5-12
package	PCB with fast Photodiode, fast circuit, DC voltage power interface, SMA signal output interface etc		

### The typical characteristic curve

Spectral response curve



### Ordering information:

#### LSIFPD-17PCB-X-X

- X=0.3 300MHZ
- X=2 2GHZ
- X=6 6GHZ

- X=0 TO-46 Can with ball lens cap
- X=1 TO-46 Can with flat window cap
- X=SMFP SM Fiber coupling with FC-PC connector
- X=SMFA SM Fiber coupling with FC-APC connector
- X=SMSA SM Fiber coupling with SC-APC connector
- X=5MMFA 50um MM Fiber coupling with FC-APC connector
- X=6MMFA 62.5um MM Fiber coupling with FC-APC connector
- X=JKFC TO-46 Can with FC receptacle
- X=Other By customer's request

### The cautions

- 1: The suitable ESD protecting measures are recommend in storage, transporting and using.
- 2: 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.