

400nm-1100nm Fast Si PIN Photodiode module

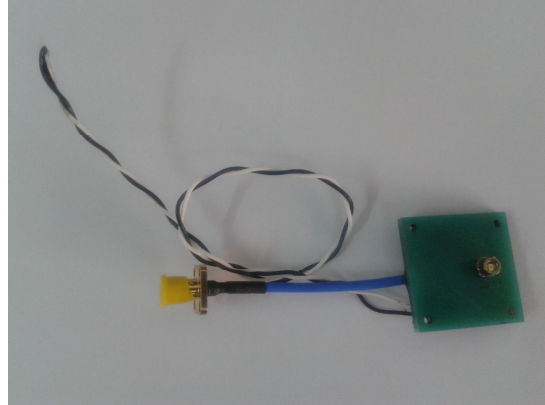
Model: LSSFPD-11PCB

Features:

- Low noise, High reliability
- Top illumination planar PIN PD
- Fast up to 2.5GHZ
- 50 Ω output

Applications:

- Short light pulse waveform test
- Science analysis and experiment



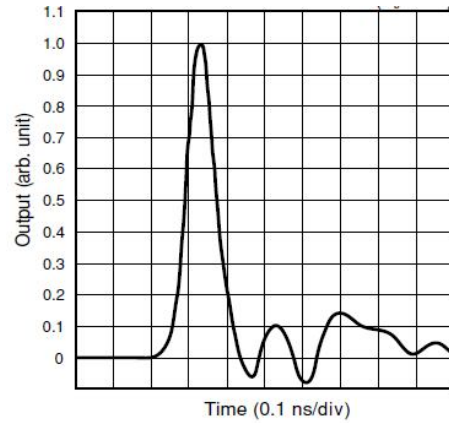
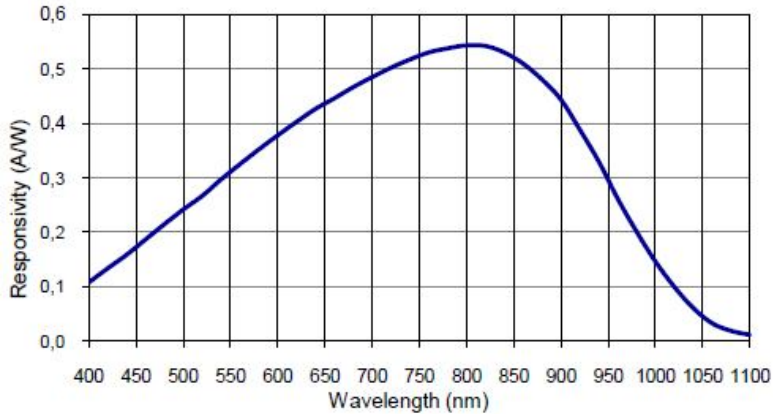
Absolute maximum ratings:

parameter	symbol	value	unit
Operating temperature	Top	-40~+85	°C
Storage temperature	Tstg	-40~+85	°C
Forward current	I _f	10	mA
Operating voltage	V _R	12	V
Power dissipation	Wp	100	mW
Soldering temperature(time)	Ts (10s)	260	°C

Electrical and optical characteristics:(T=25°C, V_R=9V)

parameter	symbol	unit	Value (typ.)
Active diameter	Φ	um	220-1000
Spectral range	λ	nm	400-1100
Responsivity	Re ($\lambda=1064\text{nm}$)	mA/mW	0.05
	Re ($\lambda=905\text{nm}$)	mA/mW	0.4
	Re($\lambda=355\text{nm}$)	mA/mW	0.05
Response time	Tr (R _L =50 Ω , -9 V)	ps	150-1000
Dark current	I _D (-9V)	nA	0.5
Operating voltage	V _R	v	3-12
package	PCB with fast Photodiode, fast circuit, DC voltage power interface, SMA signal output interface etc		

The typical characteristic curve



Ordering information:

LSIFPD-11PCB-X-X

X=0.3 300MHZ
X=2.5 2.5GHZ

X=0 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.