800-1700nm high-speed InGaAs biased photodetector



Description

LD-PD PTE.LTD's high-speed InGaAs biased photodetector covers a sensitive range of 800nm~1700nm, with extremely low noise, fast response, no gain, and low cost. It is suitable for intensity-time waveform measurement of high-speed laser pulses or luminous events. It has excellent performance and high cost performance. It offers full azimuthal angular response and is widely used in near-infrared light measurement applications.

Features

- The photosensitive range covers 800nm~1700nm, and is often used for near-infrared light measurement
- Biased detector, extremely low noise, fast response, no gain
- Low cost, suitable for intensity-time waveform measurement of high-speed laser pulses or luminous events
- Excellent performance, high cost performance, quan azimuth technical support
- Provide non-standard customization services

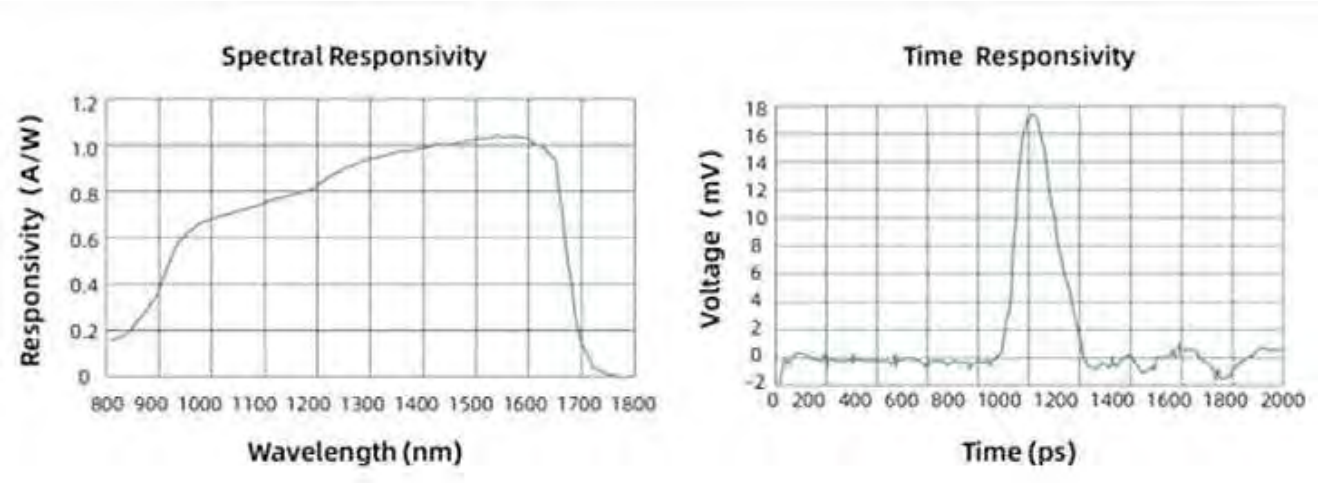
Application

- Near infrared light measurement

Key Parameter

Parameters	Value		
Input coupling mode	Window	Ball lens	FC/PC fiber holder
Wavelength range	800-1700nm		
Peak response	0.9A/W		
3dB bandwidth (@502)	5GHz		
Rise/fall time (@502)	70ps/110pS		
NEP	$2x10^{-15}W/Hz^{1/2}$		
Dark current	1.5nA		
Output voltage	2V(Max)		
Junction capacitance	0.3pF		
Bias voltage	12V		
Output current	0~10mA		
Operating impedance	502		
Photosensitive size	φ80um		
Photosensitive surface characteristics	Flat AR coating	Lens size 0.059" (1.50 mm)	Inline coupling lens 0.059" (1.50mm)
Detector net weight	0.18kg		
Operating temperature/storage temperature	0-40℃		
Appearance size	2.21" X 1.4" X 0.80" (56.1 mm X 35.6 mm X 20.3mm）		
Battery power supply	Signal Interface		Strut interface
A23, 12VDC, 40mAh	SMA (DC coupled)		M4×1

Response Curve



Product Configuration





Accessory 1：A23,12V battery



Accesory 2:SMA-BNC signal cable

Optional configuration table

InGaAs Bias Photodetector	Optional Configuration					
Product Name	Material	Type	Feature	Wavelength range Active Area	Input coupling mode	Reserve Optional configuration
PD:" Photodetector"	J: InGaAs	B: Bias type	H: High speed type	8J08:800-1700nm,Φ80um	W: Window	
					L: Ball lens	
					P: FC/PC fiber holder	

Dimension

