Ultrafast Photodetector (Up to 20GHZ)



Description

Ultra-high-speed detectors(Up to 20GHZ), commonly used for visible light and near-mid-infrared light measurement; Suitable for intensity-time waveform measurement of high-speed laser pulses or luminescence events. Excellent performance, high cost-effectiveness, and full technical support, Provide non-standard customization services.

Features

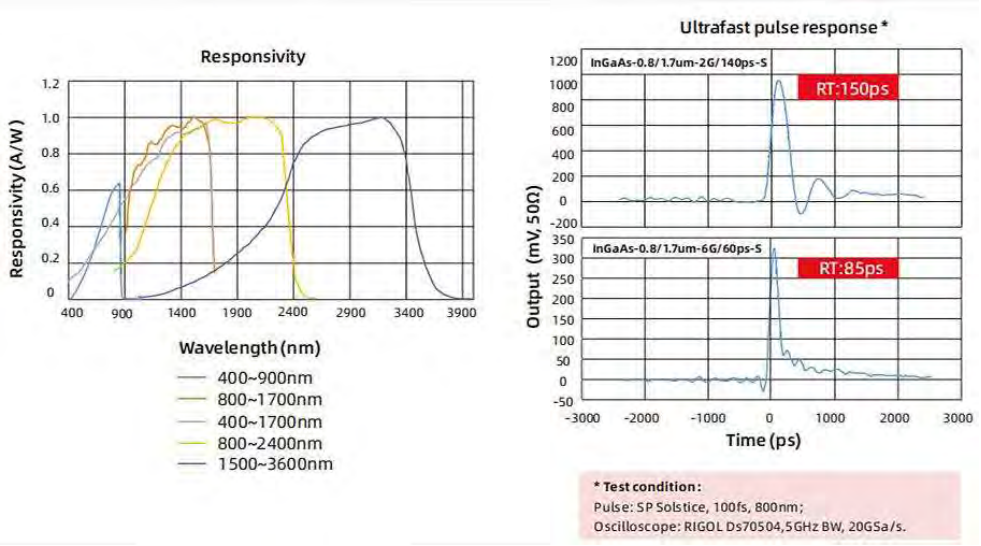
- Biased detectors
- extremely low noise
- ultra-high-speed response
- no gain

Key Parameter

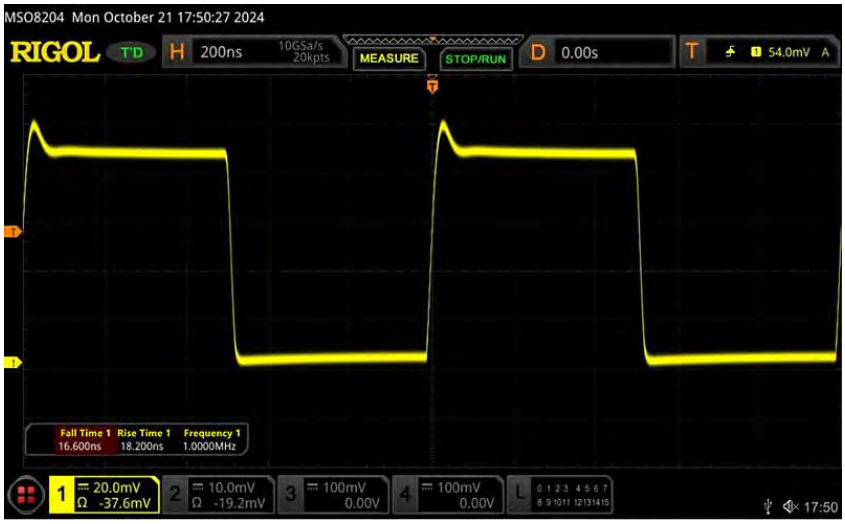
Product parameters

Parameter	Details
bias voltage	A23 dry battery, 12V
Working impedance	50Ω
Photosensitive surface characteristics	Planar lens/coupling lens/fiber holder FC interface/single mode pigtail FC connector
Operating temperature/storage temperature	0~40℃
Detector net weight	0.13kg
Appearance size	Φ 36mm X 53.5mm
battery powered	A23, 12VDC, 40mAh
Signal interface	SMA (DC coupling)
Strut interface	M4 X 1

Response Curve



DFB1550，Power 4mW Signal testing



Product Configuration





(Accessory 1: A23,12V battery)



(Accessory 2: SMA-BNC signal cable)

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Part Number

Part Number	Range	Active Area	Rise Time(RT)	Bandwidth (BW)
Si-0.4/0.9um-10G/40ps-S	400~900nm	Φ50um	40ps	10GHz
Si-0.4/0.9um-2.5G/130ps-S		Φ70um	130ps	2.5GHz
InGaAs-0.8/1.7um-2G/140ps-S	800~1700nm	Φ120um	140ps	2GHz
InGaAs-0.8/1.7um-3G/120ps-S		Φ100um	120ps	3GHz
InGaAs-0.8/1.7um-6G/60ps-S		Φ50um	60ps	6GHz
InGaAs-0.8/1.7um-20G/17ps-S		Φ45um	17ps	20GHz
InGaAs-0.4/1.7um-1G/250ps-S	400~1700nm	Φ100um	250ps	1GHz
InGaAs-0.8/2.4um-1G/250ps-S	800~2400nm	Φ100um	250ps	1GHz
InGaAs-1.5/3.6um-1G/250ps-S	1500~3600nm	Φ100um	250ps	1GHz

Note: -S flat window; -L coupling lens; -FC fiber holder FC interface; -SMFC single mode pigtail FC connector.

Dimension

unit(mm)

