



## PD10A-VIS series amplification photodetector

### OVERVIEW

The PD10A-VIS series is a high-speed, amplified photodetector designed for a variety of test and measurement applications, including fast optical signal detection. The device integrates a high-performance Si PIN photodiode for evaluating pulsed lasers and high frequency modulation applications.

### FEATURES

- ◆ It can adapt to various temperatures and has high stability
- ◆ Low noise, high gain
- ◆ All-metal shell with excellent shielding performance
- ◆ M6 threaded holes for easy installation and integration

### APPLICATIONS

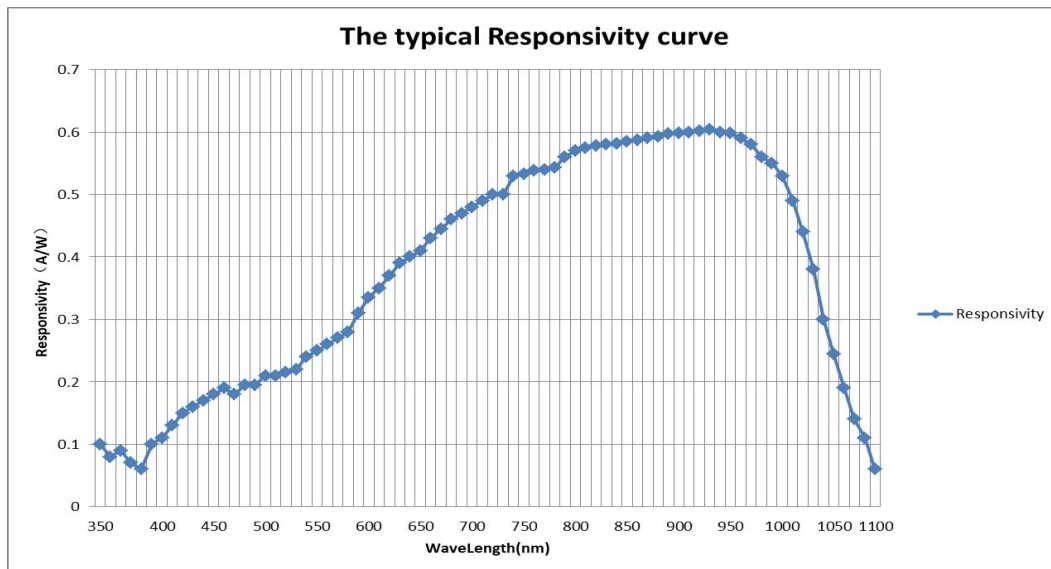
- ◆ Detect low light signals
- ◆ Detect fast laser pulses
- ◆ RF and pulse waveform extraction from laser light sources
- ◆ Heterodyne laser beat frequency signal detection

### SPECIFICATIONS

Item	PD10A-VIS-200M	PD10A-VIS-500M	PD10A-VIS-1G
Detector	Si		
Wavelength Range	400-1100nm		
Optical Input	FC		
Active Area	200um		
Peak Response	0.55A/W @ 850nm		
Bandwidth	DC-250MHz	DC-500MHz	DC-1GHz
Rise Time	1.4ns	0.7ns	350ps
Maximum gain	1.1x10 <sup>4</sup> V/W	660V/W	380V/W

Minimum optical power	-29.6dBm (1.1uw)	-22.2dBm (6uw)	-19.6dBm (11uw)
Saturated optical power	-4.4dBm (0.36mw)	5.8dBm (3.8mw)	4.1dBm (2.6mw)
Noise voltage	<12mV	<4mV	<4mV
Maximum output amplitude	4.0V	2.5V	1.0V
Work voltage	12VDC $\pm$ 10%		
Work current	<100mA		
Output connector	SMA		
Output impedance	50 $\Omega$		
Output coupling mode	DC		
Work temperature	-20~65°C		
Storage temperature	-40~85°C		
Package Size	81mm x 64mm x 25mm (长 x 宽 x 厚, 不含连接器)		

## RESPONSE CURVE



MECHANICAL DRAWING

