

Detectors

Power Meters

CCD Camera

Spectrometer

Optical Chopper

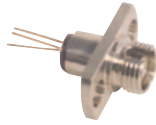
Omegameter & Fabry-Perot

Digital Delay Generator

Filter Wheel & Shutter

InGaAs Photodiodes

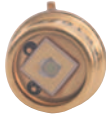
FGA04 High Speed Fiber Coupled Photodiode



Features:

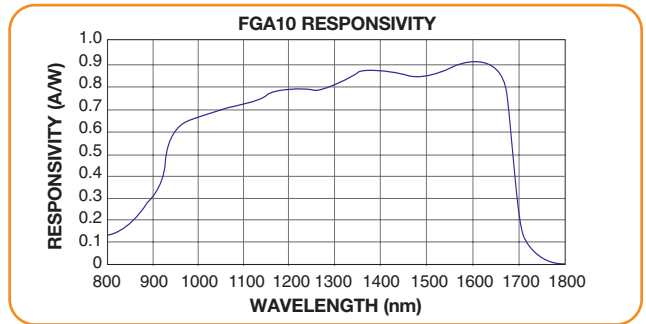
- Direct FC coupled
- High responsivity
- 800nm-1800nm spectral range

FGA10 InGaAs Photodiode



Features:

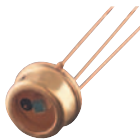
- High responsivity
- Low capacitance
- 800nm-1800nm spectral range



ITEM#	\$	£	€	¥	RISE TIME ¹	ACTIVE AREA	NEP	DARK CURRENT	SPECTRAL RANGE
FGA04	\$ 132.00	£ 92.40	€ 132,00	¥ 22,440	100ns	Fiber Input	$1.5 \times 10^{-15} \text{W}/\sqrt{\text{Hz}}$	0.5nA @ -5V	800-1800nm
FGA10	\$ 149.50	£ 104.65	€ 149,50	¥ 25,415	5ns	0.8mm ² (Ø1mm)	$1 \times 10^{-14} \text{W}/\sqrt{\text{Hz}}$	25nA @ -5V	800-1800nm

¹ Measured with 50Ω load and 12V Bias
² Measured at peak wavelength of 1550nm

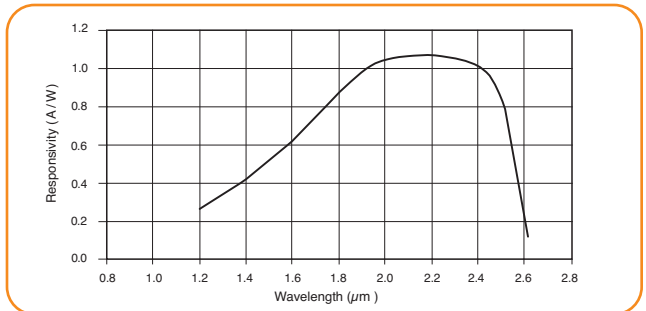
FGA20 Long Wavelength InGaAs Photodiode



Features:

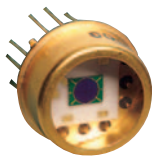
- 1200-2600nm spectral range
- High responsivity
- TO-18 package

The FGA20 photodiode provides high responsivity from 1200-2600nm, allowing detection of wavelengths beyond the normal 1800nm range of typical InGaAs photodiodes.



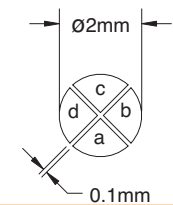
ITEM#	\$	£	€	¥	PEAK WAVELENGTH	ACTIVE AREA	NEP	DARK CURRENT	SPECTRAL RANGE
FGA20	\$228.50	£159.95	€228,50	¥38,845	2.3µm	Ø1mm	$2 \times 10^{-12} \text{W}/\sqrt{\text{Hz}}$	15µA @ -1V	1200-2600nm

PSD1 Quadrant Detector



The PSD1 is a four quadrant position sensitive InGaAs photodiode that is ideal for precise position detection. The output of the device provides four currents relative to the position of a light spot on the detector surface. For best accuracy the light spot must be in all four quadrants.

PSD1 Active Area

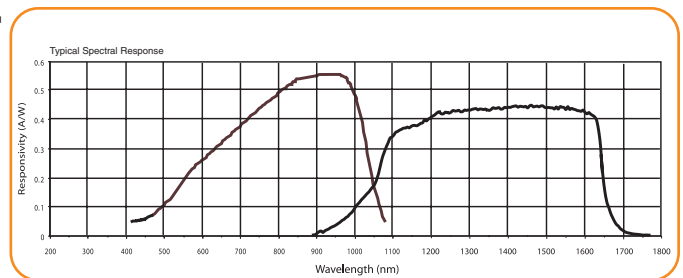


ITEM#	\$	£	€	¥	PEAK WAVELENGTH	ACTIVE AREA	NEP	DARK CURRENT	SPECTRAL RANGE
PSD1	\$1,386.00	£970.20	€1,386,00	¥235,620	1.5µm	Ø2mm	$2 \times 10^{-11} \text{W}/\sqrt{\text{Hz}}$	0.15nA @ -1V	900-1700nm

DSD2 Dual Sandwich Detector



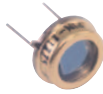
The DSD2 is a two element photodiode, Silicon and InGaAs, providing a very wide spectral response. This detector is ideal for remote temperature measurements where an extremely wide wavelength range needs to be monitored.



ITEM#	\$	£	€	¥	PEAK WAVELENGTHS	ACTIVE AREA	RISE TIME	SPECTRAL RANGE
DSD2	\$299.00	£209.30	€299,00	¥50,830	950/1300nm	Ø2.54mm / Ø1.5mm	4µs typ.both layers	400-1700nm

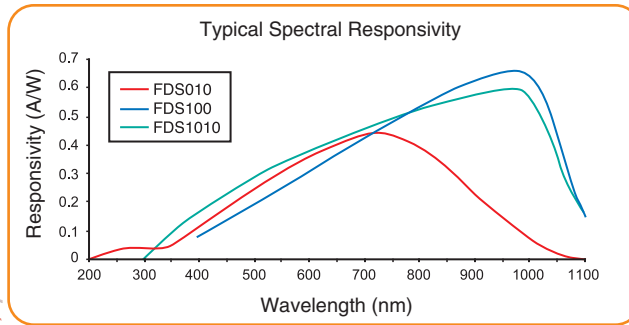
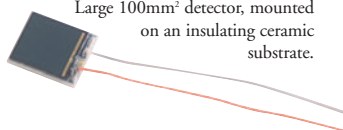
Photodiodes: Si

FDS010
Fast 1ns small area Si detector packaged in a T05 transistor can with a UV grade Fused Silica window to provide sensitivity down to 200nm.



FDS100
Large area Si detector packaged in a T05 can.

FDS1010
Large 100mm² detector, mounted on an insulating ceramic substrate.



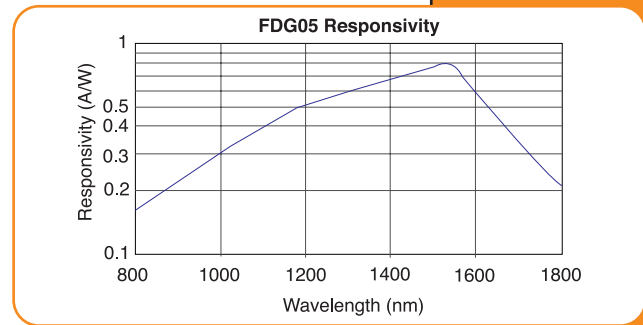
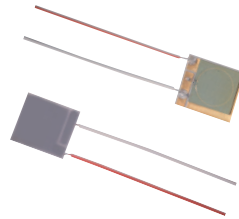
ITEM#	\$	£	€	¥	RISE TIME ¹	ACTIVE AREA	NEP	DARK CURRENT	SPECTRAL RANGE
FDS100	\$ 14.50	£ 10.15	€ 14,50	¥ 2,465	20ns	13mm ² (3.6 x 3.6mm)	1.2x10 ⁻¹⁴ W/√Hz	20nA	350-1100nm
FDS010	\$ 46.00	£ 32.20	€ 46,00	¥ 7,820	1ns	0.8mm ² (Ø1mm)	5x10 ⁻¹⁴ W/√Hz	2.5nA	200-1100nm
FDS1010	\$ 48.00	£ 33.60	€ 48,00	¥ 8,160	40ns	100mm ² (10 x 10mm)	4x10 ⁻¹³ W/√Hz	0.6µA	350-1100nm

¹ Measured with 50Ω load and 12V Bias

Photodiodes: Ge

FDG05 Features

- Large Active Area: Ø5.00mm
- Ideal for Pulsed and CW sources
- Package Size: 0.275" x 0.310"
- 800nm-1800nm spectral range



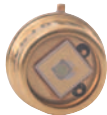
ITEM#	\$	£	€	¥	RISE TIME ¹	ACTIVE AREA	NEP	DARK CURRENT	SPECTRAL RANGE
FDG05	\$ 250.00	£ 175.00	€ 250,00	¥ 42,500	220ns	Ø5.00mm	4.0 x 10 ⁻¹²	40µA	800-1800nm

¹ Measured with 50Ω load and 12V Bias

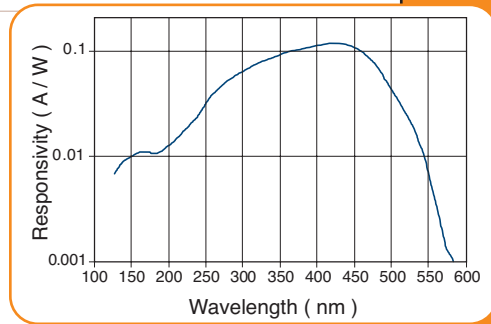
Photodiodes: GaP

FGAP71 Features

- High responsivity (0.12 A/W @ 440nm)
- Rise time 1ns / fall time 140ns
- 150 - 550nm spectral range



The FGAP71 has a wide bandwidth and high spectral sensitivity in the UV and visible ranges (150 - 550 nm). The diode is mounted in hermetically sealed packages with a sapphire window.



ITEM#	\$	£	€	¥	RISE/FALL TIME ¹	ACTIVE AREA	NEP	DARK CURRENT	SPECTRAL RANGE
FGAP71	\$ 81.00	£ 56.70	€ 81,00	¥ 13,770	1ns / 140ns	4.8mm ²	1.0 x 10 ⁻¹⁴ W/√Hz	10nA max.	150-550nm

¹ Measured with 50Ω load and 5V Bias

Diode Sockets



S8058
Ø0.406" O.D.
Ø0.20" Pin Circle
Use With: FDS100, FDS010 & FGA10



S8060
Ø0.25" O.D.
Ø2.54 Pin Circle
Use With: FGA04 & FGA20

ITEM#	\$	£	€	¥	DESCRIPTION
S8058	\$ 8.40	£ 5.88	€ 8,40	¥ 1,428	Socket for T05 Diode Package
S8060	\$ 5.49	£ 3.84	€ 5,49	¥ 933	Socket for FGA04 Diode

HIGH SPEED DETECTORS

SV2-FC

2 to 7GHz
Detector Packages



See Page 746

