

Extended InGaAs Photodiodes

GAP3000-2.6-TEC1

Wavelength range
Cooler
Packages

1000nm – 2600nm
TEC1
TO5, 8-Pin

Applications

- Process monitoring
- Process analysis
- Infrared spectroscopy
- Optical power meters
- Temperature sensors
- Medical analysis

Features

- High responsivity
- High shunt resistance
- Low capacitance
- Planar design for high reliability

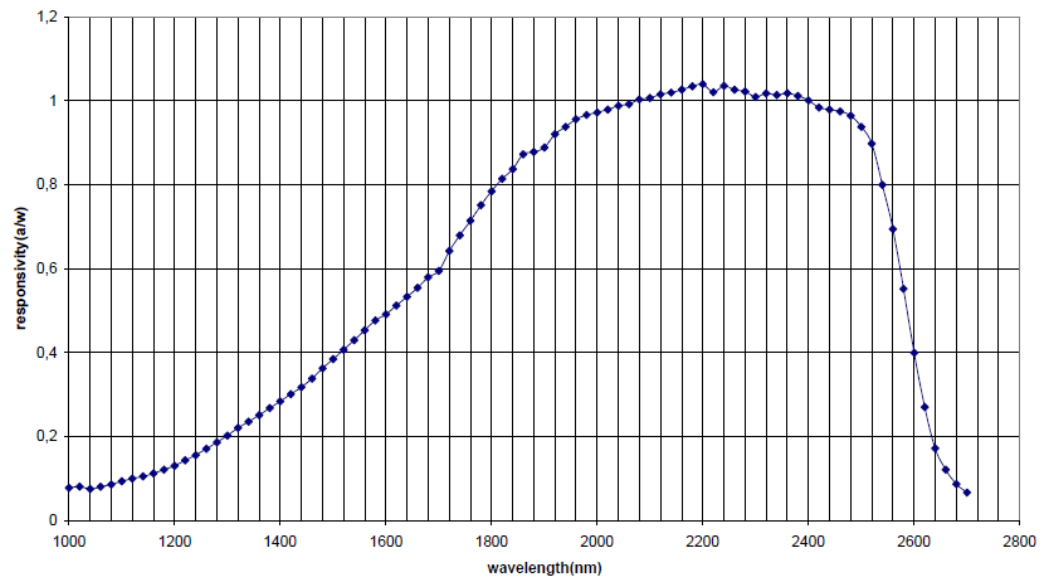
Technical Data

Device	Terms & Conditions		GAP3000/2.6 @ 23°C +/- 2°C	-TEC1 @ -10°C	Units
Active area			3	3	mm dia
Peak Spectral range		typ	2,2		µm
Spectral Cutoff	@ 50%	typ min typ	1,0 - 2,6 2,5 2,6		µm µm µm
Peak responsivity	@2200nm	min Typ	0,95 1,0		
Responsivity	@2000nm	min typ		0,8 0,95	A/W A/W
Responsivity	@2400nm	min Typ		0,9 1,0	A/W A/W
Capacitance	@ 0V	max	8000	8000	pF
Anstiegszeit	50 Ohm	typ			ns
Bandbreite	50 Ohm, -3dB, 0V	Typ	0,4		MHz
Shunt resistance	@ -10mV	min typ	0,2 0,5	2 5	KOhm KOhm
Dark current	@ -0,5V	typ max	500	20 35	µA µA
NEP	Peak	typ	6*10 ⁻¹²	5*10 ⁻¹³	W/√Hz
Bias voltage		max	0,5	0,5	V
Thermistor		typ	--	10	KOhm
TEC1		max	--	1,5 – 1,5	V – A
Temperature range	Operation Storage	max max	-40 / +85 -40 / +100	-40 / +85 -40 / +100	°C °C
Package			--	TO5, 8-Pin	

Options, available on request:

- Other active areas (i.e. diameter 2mm, 1mm, 0,5mm)
- Other packages (i.e. TO5, TO37, TO8, TO66, etc.)
- Devices with receptacles (i.e. SMA, FC/APC, etc.)
- TE-cooled devices (i.e. TE1, TE2)
- Custom devices (i.e. with filters, fiber pigtails, etc.)

Spectral response curve, typical



Package, TO5, 8-Pin

