

Extended InGaAs Photodiodes

GAP3000-2.6-TEC2

Wavelength range
Cooler
Packages

1000nm – 2600nm
TEC2
TO66, 9-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

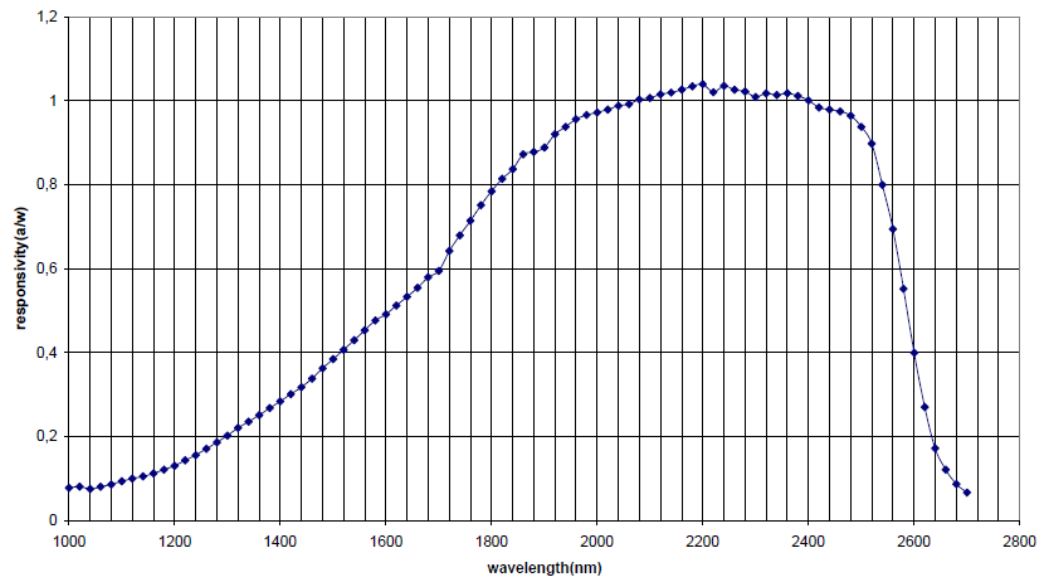
Technical Data

Device	Terms & Conditions		GAP3000/2.6 @ 23°C +, - 2°C	-TEC2 @ -20°C	Units
Active area			3	3	mm dia
Peak		typ	2,2	2,2	µm
Spectral range		typ	1,0 - 2,6	1,0 - 2,6	µm
Spectral Cutoff	@ 50%	min	2,5	2,5	µm
		typ	2,6	2,6	µm
Peak responsivity	@2200nm	min	0,95		
		Typ	1,0		
Responsivity	@2000nm	min		0,8	A/W
		typ		0,95	A/W
Responsivity	@2400nm	min		0,9	A/W
		Typ		1,0	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	0,2	6	KOhm
		typ	0,5	12	KOhm
Dark current	@ -0,5V	typ		10	µA
		max	500	25	µA
NEP	Peak	typ	6*10 ⁻¹²	3,5*10 ⁻¹²	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	max	-40 / +85	-40 / +85	°C
	Storage	max	-40 / +100	-40 / +100	°C
Package			--	TO66, 9-Pin	

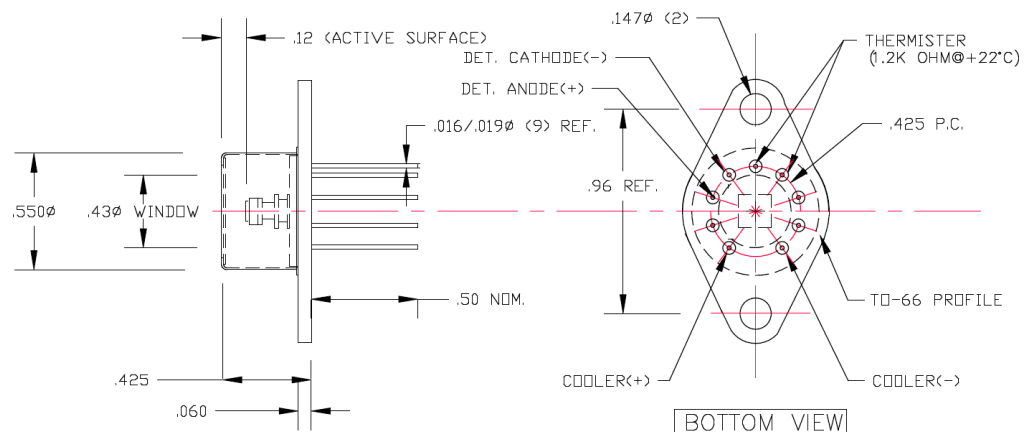
Options, available on request:

- 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, TO66, 9-Pin



TOLERANCES

ALL DIMS. ARE IN INCHES
 XX PLACE DEC. ±.010
 XXX PLACE DEC. ±.005
 FRACTIONS ± 1/64
 ANGLES ± 0.5°