

1000 - 2600 nm

Photodiodes from 1000 nm to 2600 nm

Nanosystems and
Technologies
GmbH

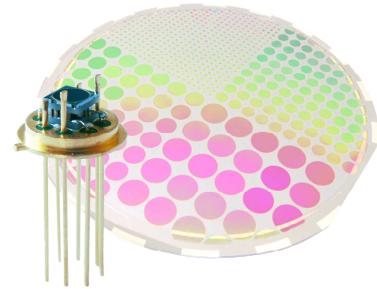
nanoplus

data sheet describing nanoplus InGaAsSb photodiodes

nanoplus InGaAsSb photodiodes

Our InGaAsSb photodiodes are applicable for light detection in the wavelength range from 1000 nm to 2600 nm and beyond on request.

With their large diameter (1 - 3 mm), they are specially designed for environmental measurements or other analytical instruments.



key features

- ✓ wavelength range from 1000 nm to 2600 nm
- ✓ photosensitive area 1 - 3 mm in diameter
- ✓ TO5 package uncooled
- ✓ TO5 package with TEC and NCT

application areas

- ✓ high performance gas sensing
- ✓ process and environmental control
- ✓ analytical instruments
- ✓ OEM-products of all kind

general ratings (20 °C) for 1.5 mm diameter photodiode	symbol	unit	typ	max
spectral response range	I	nm	1000 to 2600	-
peak sensitivity wavelength	I_p	nm	1880	-
responsivity (@ 1880 nm)	R_p	A/W	0.6	0.9
reverse voltage	V_R	V	-	2
dark current (@ $V_R = 1$ V)	I_D	mA	1.0	1.9
shunt resistance (@ $V_R = 50$ mV)	R_{sh}	k Ω	0.6	0.7

photodiode options

TO5 with or without TEC and NTC

further packaging options upon request

custom active area diameters upon request

custom active area designs like elliptical, rectangular or segmented upon request



device protected by
US patent 6.671.306
US patent 6.846.689
EU patent EP0984535

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nanoplus InGaAsSb photodiodes

Fig. 1
 Responsivity

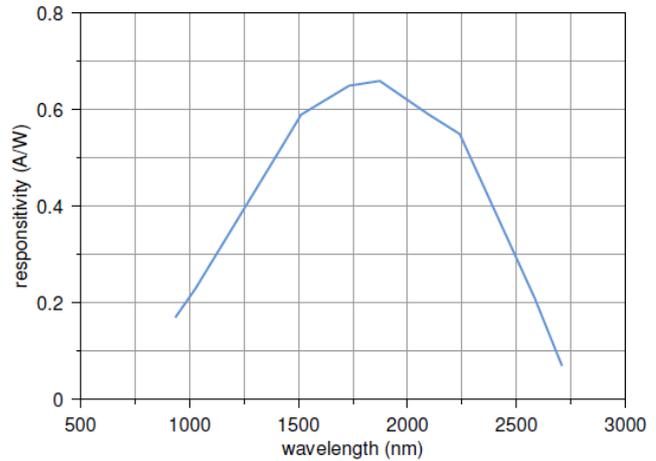
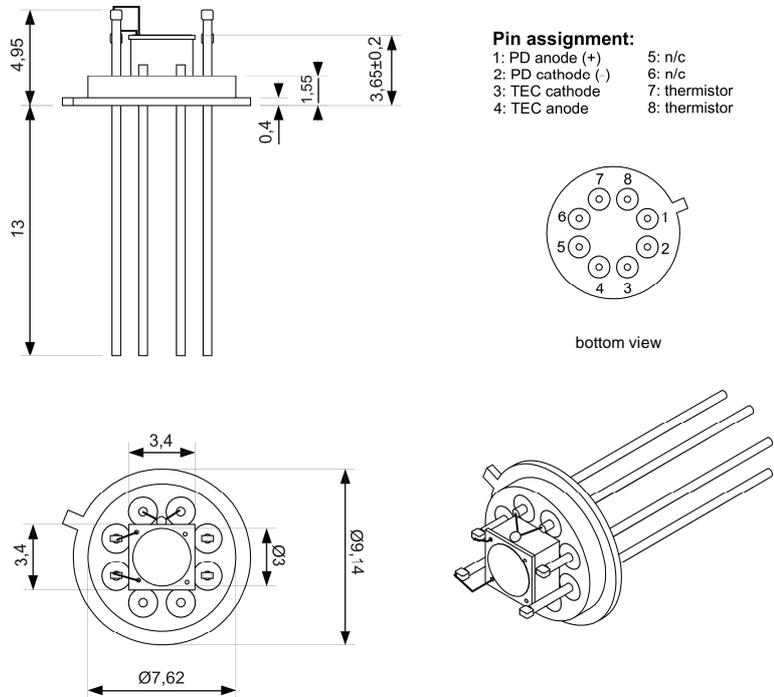


Fig. 2
 Pin out and dimensions in mm



package details

Photodiodes are mounted on a TO5 header with or without TEC and NTC. The package is open or hermetically sealed. Typical ratings for TO5 with TEC and NTC are listed in the tabular below and the pin out is shown in figure 2.

typical ratings (TO5 with TEC and NTC)	symbol	unit	typ
maximum TEC current		mA	500
NTC calibration temperature	T_0	°C	25
NTC calibration resistance	R_0	Ω	10000
NTC calibration slope	B		3930

