

1000 - 2600 nm

# Photodiodes from 1000 nm to 2600 nm

Nanosystems and  
Technologies  
GmbH

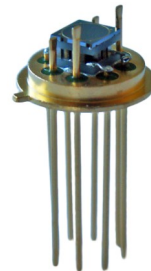
**nanoplus**

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, 2 or 3mm), they are specially designed for environmental measurements or other analytical instruments.



### key features

- ✓ wavelength range from 1000 nm to 2600 nm
- ✓ photosensitive area 1, 2 or 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 (25 °C)	symbol	unit	typ
spectral response range	$\lambda$	nm	1000 to 2600
peak sensitivity wavelength	$\lambda_p$	nm	1880
peak responsivity	$R_p$	A/W	0.66
dark current without bias	$I_D$	nA	95
junction capacitance	$C_j$	pF	41
shunt resistance	$R_{sh}$	$\Omega$	17

### 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



ATTENTION!  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC SENSITIVE DEVICE

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

nanoplus  
Nanosystems and Technologies GmbH  
Oberer Kirschberg 4  
D-97218 Gerbrunn

phone: +49 (0) 931 90827-0  
fax: +49 (0) 931 90827-19  
email: sales@nanoplus.com  
internet: www.nanoplus.com

© copyright nanoplus GmbH 2012. All rights reserved.  
nanoplus GmbH reserves the right to modify these specifications  
at any time without notice.



Rev. PD10002600.01

Fig. 1  
 Responsivity

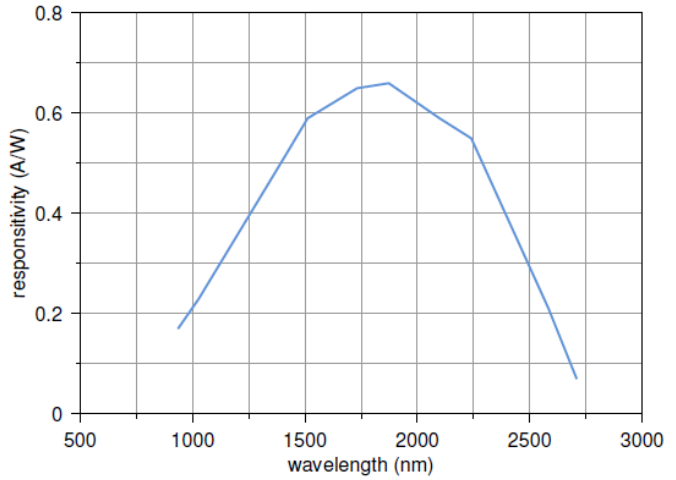
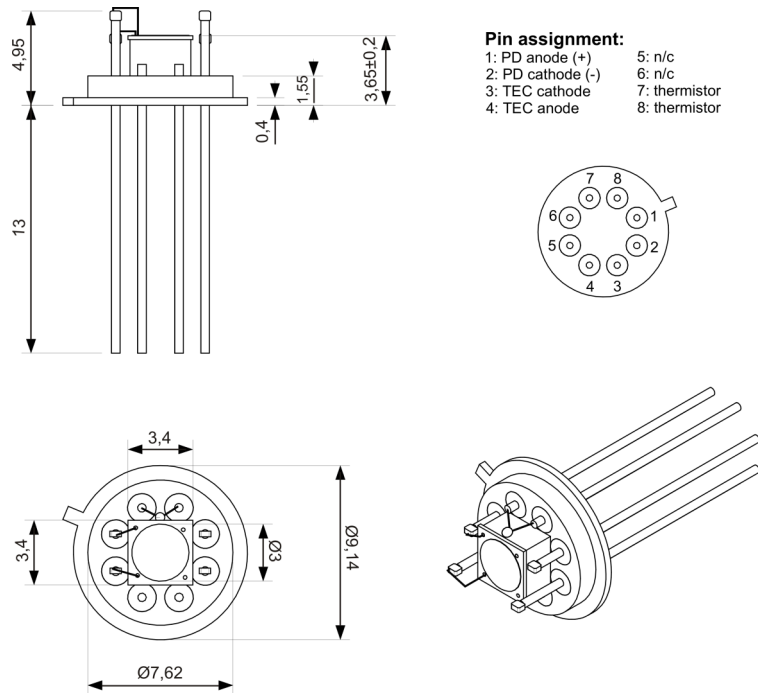


Fig. 2  
 Pin out and dimensions



### 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	$R_0$	$\Omega$	10000
NTC calibration slope	B		3930

