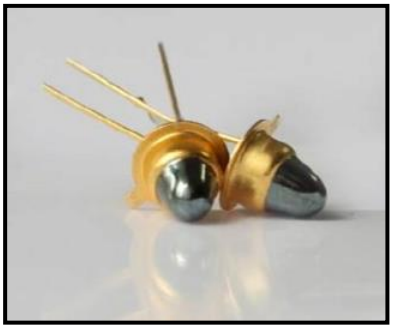
MID-IR PD 36-05-CG



Photodiodes **PD 36-05-CG** (with glass cover) are designed for detecting radiation in the Mid-Infrared spectral range from 1800 to 3600 nm. They are fabricated from narrow band-gap InAsSbP/InAs-based hetero-structures lattice matched to InAs substrate.

Specifications:

Parameter	Conditions	Value	Unit
Cut-Off Wavelength	T = 25°C	3.6 - 3.7	µm
Max. Sensitive Wavelength λ_p	T = 25°C; >90%	2.2 - 3.4	µm
Dark Current	T = 25°C; V_r=0.1V	50 - 1000	µA
Shunt Resistance	T = 25°C; V_r=10mV	0.2 – 0.8	kOhm
Capacitance	T = 25°C; λ_p	600 - 1400	pF
Reverse Voltage	T = 25°C; λ_p	0.1	V
Operating Temperature Range	0°C to +50°C		
Storage Temperature Range	0°C to +50°C		
Sensitive Area Diameter	0.5mm		

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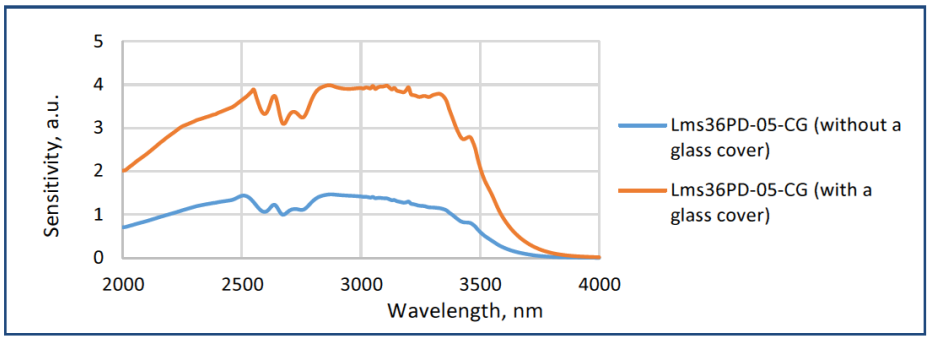
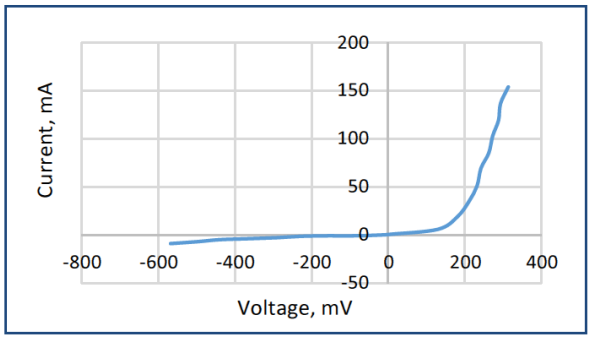
Typical Performance:

Typical spectral response

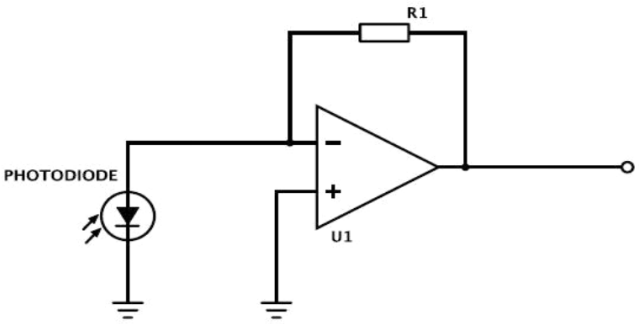


Typical current-voltage characteristic

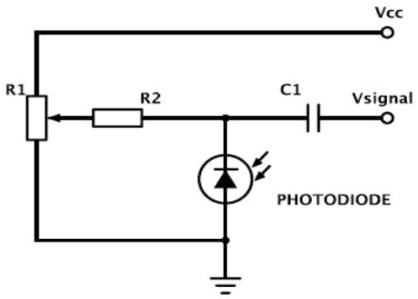


Recommended modes of PD operation

PD used as a current source (photovoltaic mode)



PD used in a photoconductive mode (under reverse bias)



We recommend using **photovoltaic mode**, when PD is used under no reverse bias.
Use photoconductive mode (mode with reverse bias) with caution.

IMPORTANT CAUTIONS:

- check your connection circuit before turning on the PD;
- mind the PD polarity: PD anode is marked with a RED dot;
- do not connect the PD to the multimeter;
- do not touch the glass covering and do not apply any force to it;
- observe the allowable operating temperature range, exceeding this eange may cause irreparable damage of the glass cover

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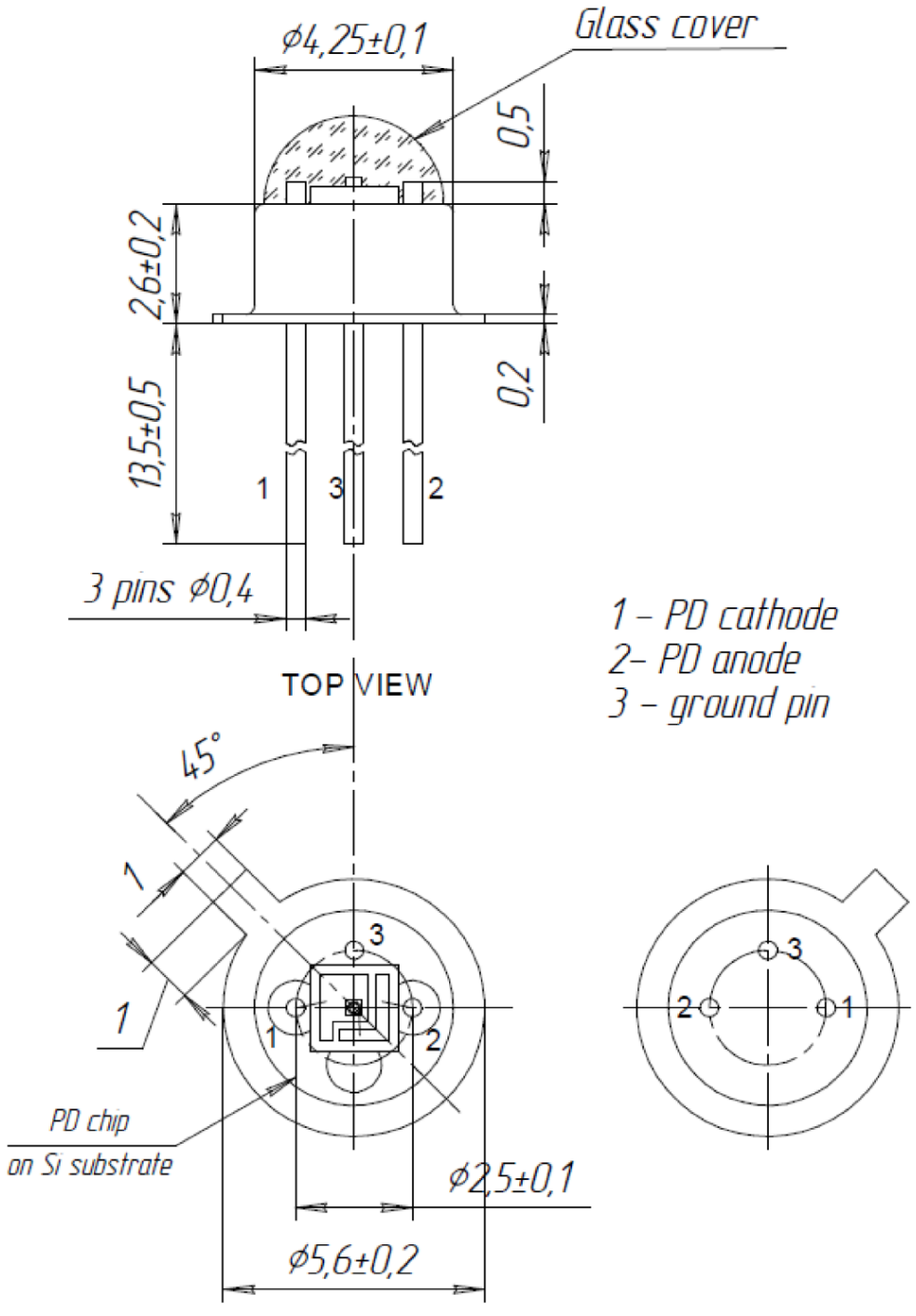
Package Drawing:



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