
Features

- 10mm² PIN detector
- Low dark current
- Low capacitance
- Light blocking glob top

Description

PIN detector for ionizing radiation with 10mm² active area. TO package with epoxy based light blocking glob top. Non hermetic.

Application

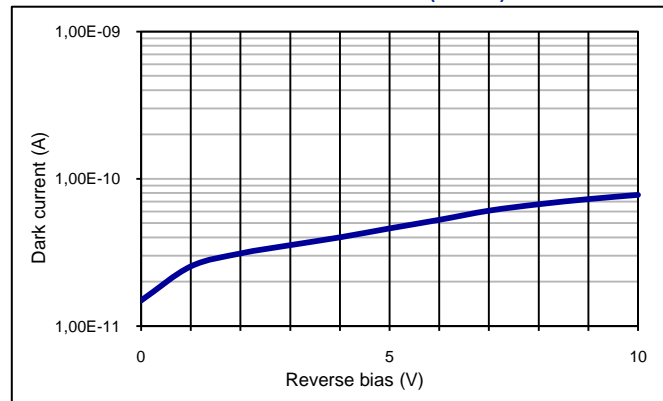
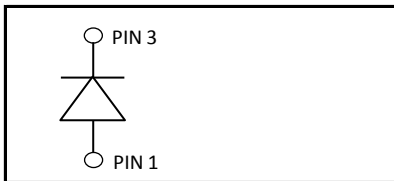
- X-Ray detector
- Gamma radiation detector

RoHS

2002/95/EC


Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
T _{STG}	Storage temp	-20	80	°C
T _{OP}	Operating temp	0	40	°C
U _R	Reverse voltage		10	V
I _{PEAK}	Peak DC current		10	mA

Dark current as fct of reverse bias (23 °C)

Schematic

Electro-optical characteristics @ 23 °C

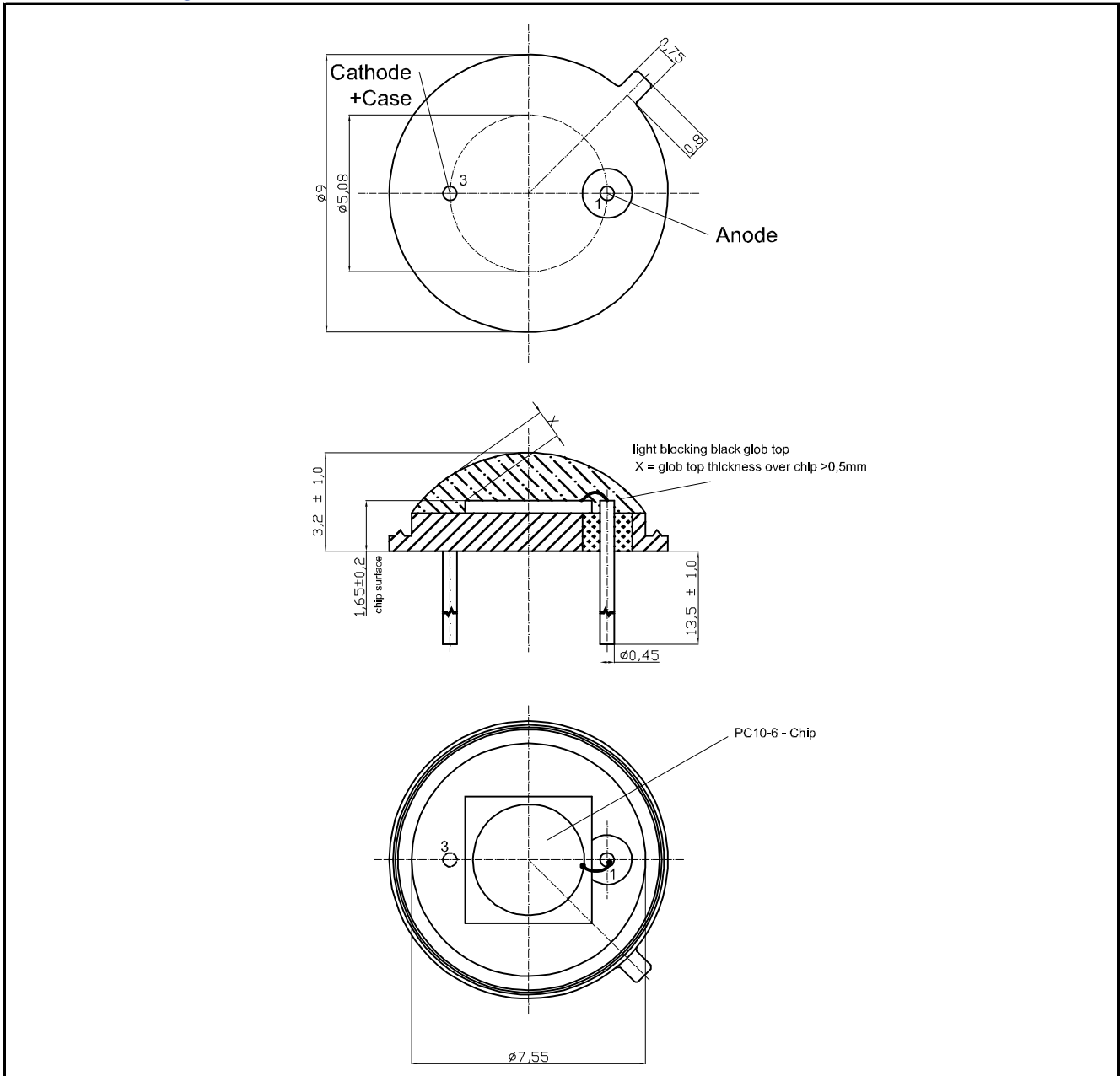
Symbol	Characteristic	Test Condition	Min	Typ	Max	Unit
	No of elements			1		
	Active area		10 mm ² , 3,57 mm diameter			
	Window material		Glob top: black epoxy			
I _D	Dark current	U = 10 V		0.5		nA
C	Capacitance	U = 0 V		100		pF
C	Capacitance	U = 10 V		18		pF
t _R	Rise time	U = 10 V; 20 keV; R _i = 50 Ω		20		ns
U _{BR}	Breakdown voltage	I _R = 2 μA	30			V
	Energy range of detectable radiation	X-ray radiation	5			keV
		Gamma radiation	5			keV

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Technical Drawing

Package dimension

Small quantities: Foam pad, boxed (12 cm x 16.5 cm)

Handling: Please refer to document "Instructions for handling and processing", Please consider basic ESD protection while handling.

Disclaimer: Due to our strive for continuous improvement, specifications are subject to change within our PCN policy according to JESD46C.

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