
Features

- 1 mm² PIN detector
- High sensitivity
- High shunt resistance
- Blue-green enhanced

Description

Blue-green enhanced circular active area PIN photodiode with 1 mm² active area. Metal can type hermetic isolated TO52 package with clear glass window.

Application

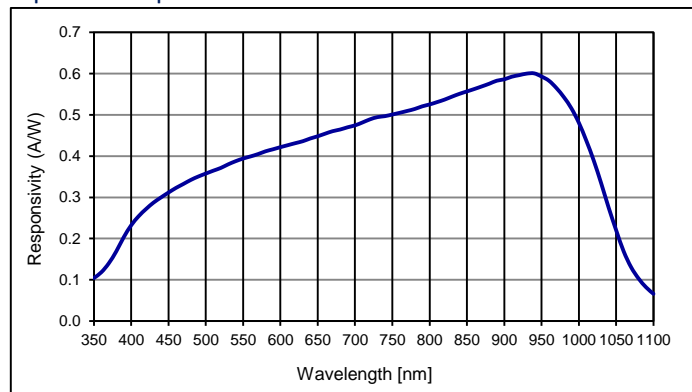
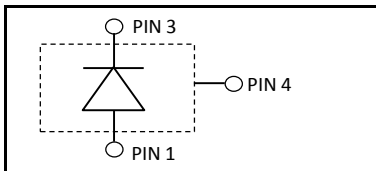
- Precision photometry
- Analytical instruments
- Medical equipment
- Fluorescence detector

RoHS

2002/95/EC


Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
T _{STG}	Storage temp	-55	125	°C
T _{OP}	Operating temp	-40	100	°C
V _{max}	Max reverse voltage		30	V
I _{PEAK}	Peak DC current		10	mA

Spectral response

Schematic #501429

Electro-optical characteristics @ 23°C

Symbol	Characteristic	Test Condition	Min	Typ	Max	Unit
	Active area		1000 x 1000			µm
	Active area		1.0			mm ²
I _D	Dark current	V _R = 5 V		0.05		nA
C	Capacitance	V _R = 0 V		20		pF
		V _R = 5 V		5		pF
	Responsivity	λ = 410 nm		0.22		A/W
		λ = 550 nm		0.37		A/W
t _R	Rise time	V _R = 0 V; λ = 410 nm; R _L = 50 Ω		30		ns
		V _R = 5 V; λ = 410 nm; R _L = 50 Ω		10		ns
	Shunt Resistance	V _R = 5 mV		1000		MΩ
	N.E.P.	V _R = 5 V; λ = 410 nm		1.8 E-14		W/√Hz
V _{BR}	Breakdown voltage	I _R = 2 µA	30	50		V

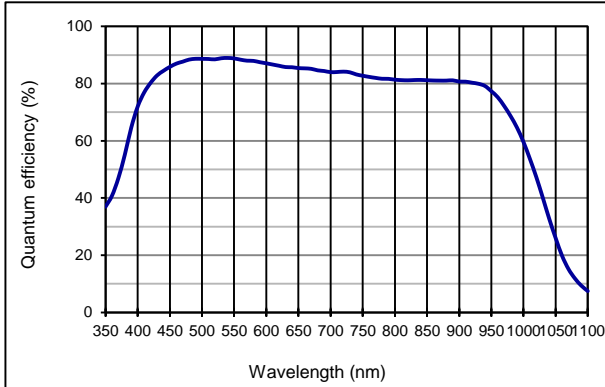
European, International Sales:


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 12459 Berlin
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 sales.opto@first-sensor.com

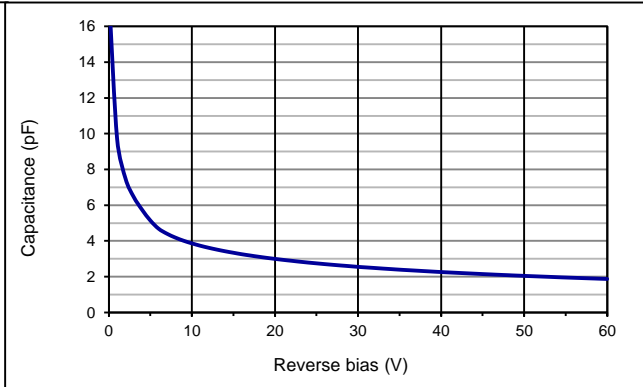
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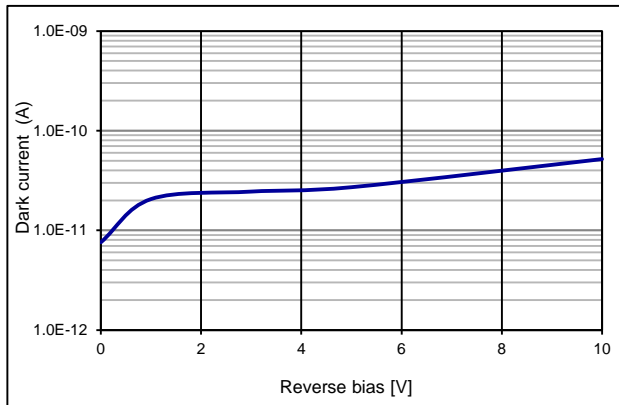
Quantum efficiency (23 °C)



Capacitance as fct of reverse bias (23 °C)



Dark current as fct of bias (23 °C)



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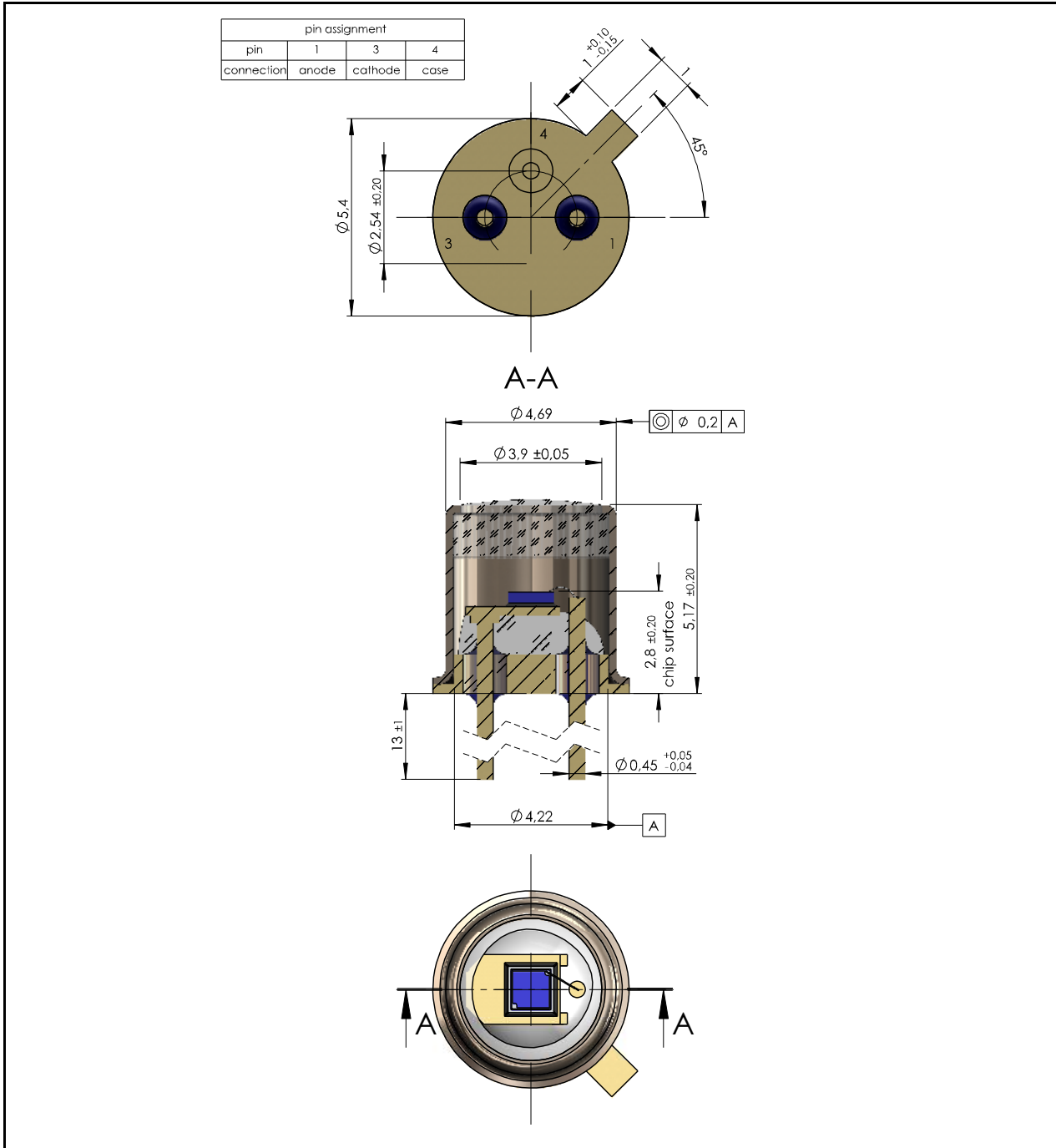


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Order number 501429, Package: TO52S1

Package dimension:

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

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

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