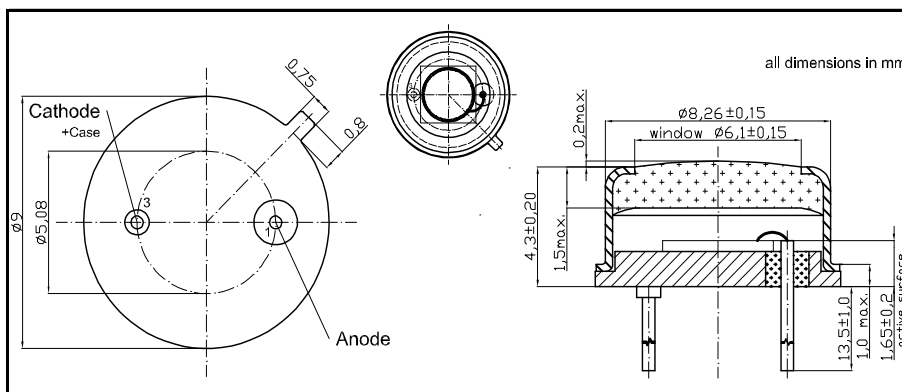




Features

- 10mm² PIN detector
- Low dark current
- High shunt resistance
- Blue-green enhanced sensitivity

Description

Circular active area PIN photodiode with 10 mm² active area. Metal can type hermetic TO5 package with UV clear glass window.

Application

- Precision photometry
- Bar code readers
- Medical equipment
- Pulsed light sensor

RoHS

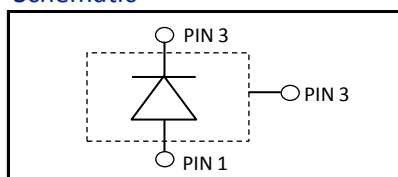
2002/95/EC



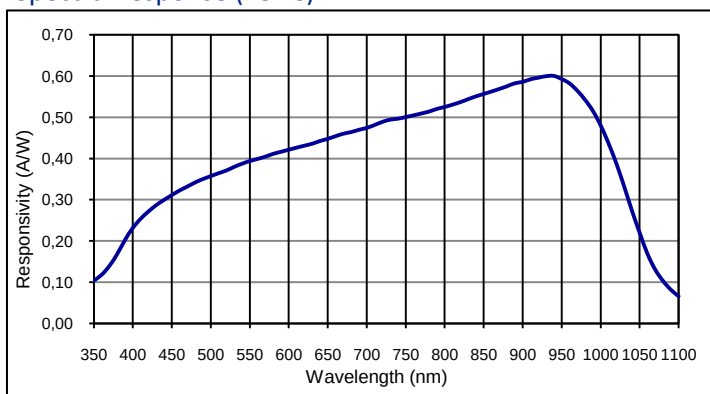
Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
T _{STG}	Storage temp	-55	125	°C
T _{OP}	Operating temp	-40	100	°C
V _{max}	Max reverse voltage		50	V
I _{PEAK}	Peak DC current		10	mA

Schematic



Spectral response (23 °C)



Electro-optical characteristics @ 23 °C

Symbol	Characteristic	Test Condition	Min	Typ	Max	Unit
	Active area		3570 diameter			μm
	Active area		10.0			mm ²
I _D	Dark current	V _R = 10 V		0.2		nA
C	Capacitance	V _R = 0 V		140		pF
		V _R = 10 V		35		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		140		ns
		V _R = 10 V; λ = 410 nm; R _L = 50 Ω		45		ns
	Shunt Resistance	V _R = 10 mV	200	300		MΩ
	N.E.P.	V _R = 10 V; λ = 410 nm		3,6 E-14		W/√Hz
V _{BR}	Breakdown voltage	I _R = 2 μA	50			V

European, International Sales:



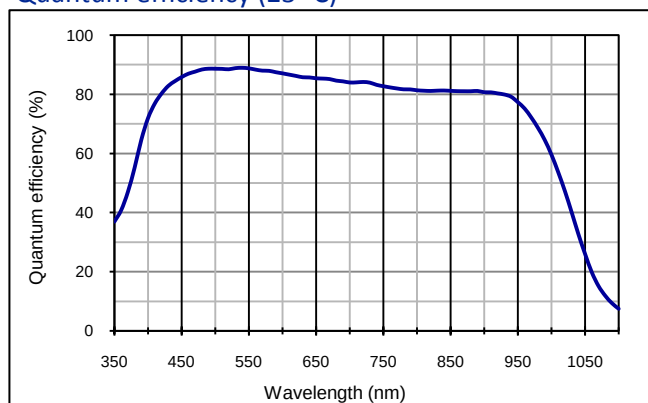
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Peter-Behrens-Strasse 15
12459 Berlin
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sales.opto@first-sensor.com

USA:

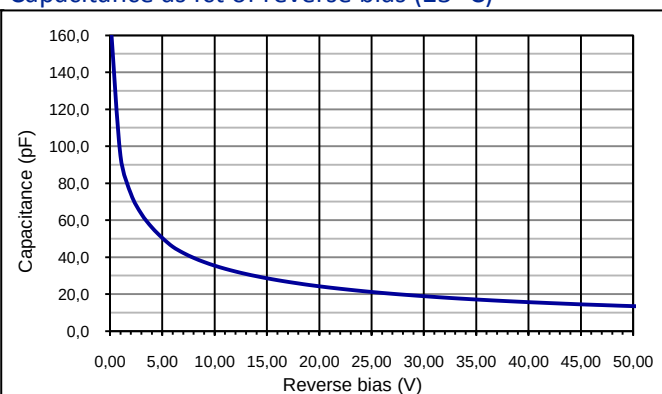


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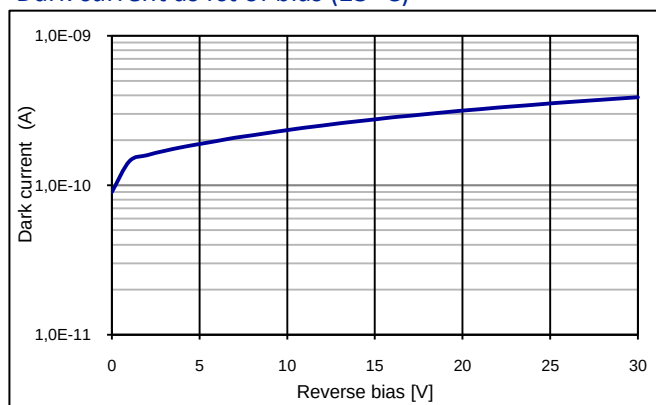
Quantum efficiency (23 °C)



Capacitance as fct of reverse bias (23 °C)



Dark current as fct of bias (23 °C)



Package dimension:

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

Handling:

Please refer to document "Instructions for handling and processing"

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

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