
**Features**

- 10mm<sup>2</sup> PIN detector
- Low dark current
- High shunt resistance
- Blue-green enhanced sensitivity

**Description**

Circular active area PIN photodiode with 10 mm<sup>2</sup> active area. Metal can type hermetic TO5 package with UV clear glass window.

**Application**

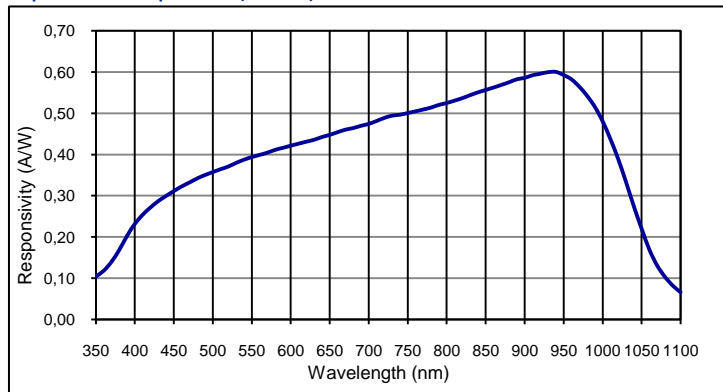
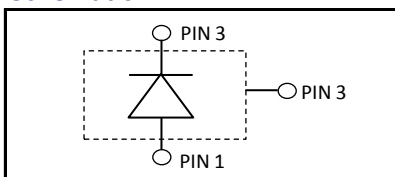
- Precision photometry
- Bar code readers
- Medical equipment
- Pulsed light sensor

**RoHS**

2002/95/EC


**Absolute maximum ratings**

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

**Spectral response (23 °C)**

**Schematic**

**Electro-optical characteristics @ 23 °C**

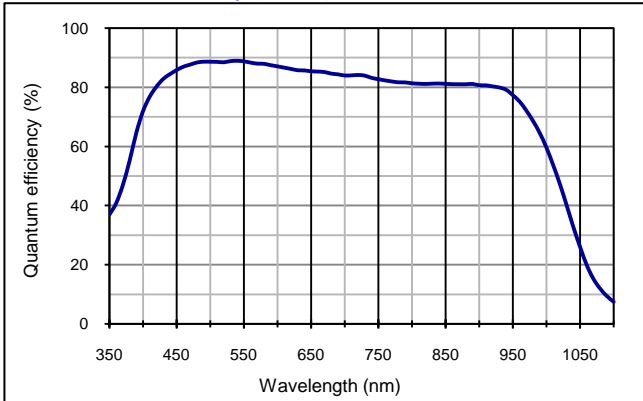
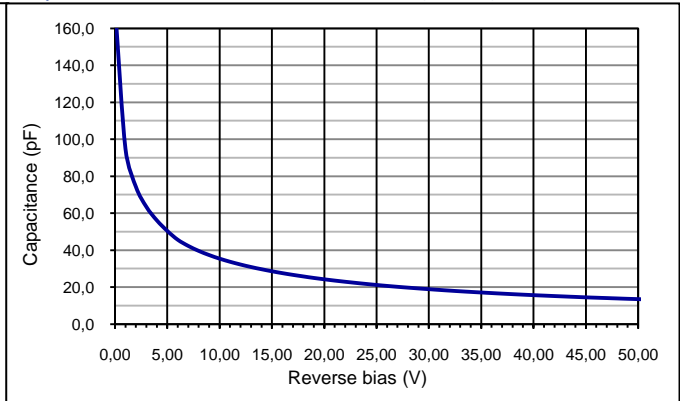
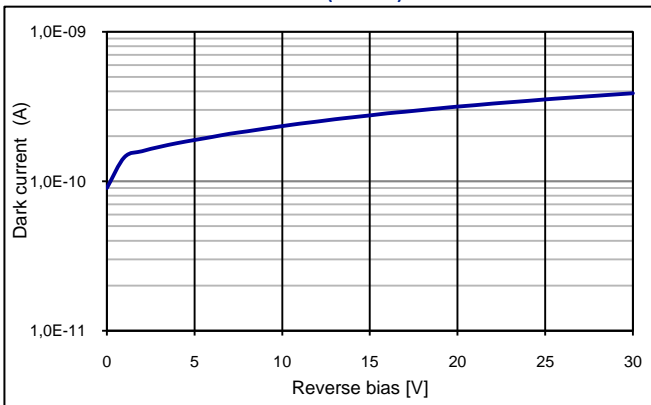
Symbol	Characteristic	Test Condition	Min	Typ	Max	Unit
	Active area		3570 diameter			μm
	Active area		10.0			mm <sup>2</sup>
I <sub>D</sub>	Dark current	V <sub>R</sub> = 10 V		0.2		nA
C	Capacitance	V <sub>R</sub> = 0 V		140		pF
		V <sub>R</sub> = 10 V		35		pF
	Responsivity	λ = 410 nm		0.22		A/W
		λ = 550 nm		0.37		A/W
t <sub>R</sub>	Rise time	V <sub>R</sub> = 0 V; λ = 410 nm; R <sub>L</sub> = 50 Ω		140		ns
		V <sub>R</sub> = 10 V; λ = 410 nm; R <sub>L</sub> = 50 Ω		45		ns
	Shunt Resistance	V <sub>R</sub> = 10 mV	200	300		MΩ
	N.E.P.	V <sub>R</sub> = 10 V; λ = 410 nm		3,6 E-14		W/√Hz
V <sub>BR</sub>	Breakdown voltage	I <sub>R</sub> = 2 μA	50			V

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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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