

**Features**

- 7 mm<sup>2</sup> PIN detector
- High sensitivity
- High shunt resistance
- UV/blue enhanced

**Description**

UV-blue enhanced square active area PIN photodiode with 7 mm<sup>2</sup> active area. Metal can type hermetic TO5 package with UV clear glass window.

**Application**

- UV exposure meters
- Pollution monitoring
- Medical equipment
- Fluorescence detector

**RoHS**

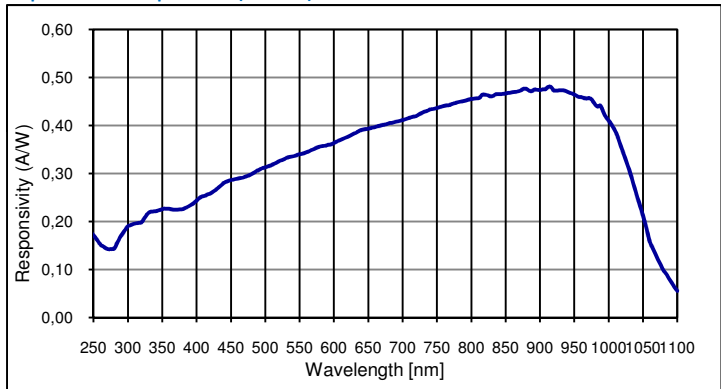
2002/95/EC



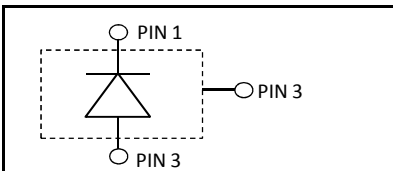
**Absolute maximum ratings**

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		30	V
I <sub>PEAK</sub>	Peak DC current		10	mA

**Spectral response (22 °C)**



**Schematic**



**Electro-optical characteristics @ 22°C**

Symbol	Characteristic	Test Condition	Min	Typ	Max	Unit
	Active area		2660 x 2660			µm
	Active area		7.1			mm <sup>2</sup>
I <sub>D</sub>	Dark current	V <sub>R</sub> = 5 V		0.4		nA
C	Capacitance	V <sub>R</sub> = 0 V		300		pF
		V <sub>R</sub> = 5 V		100		pF
	Responsivity	λ = 340 nm		0.22		A/W
		λ = 900 nm		0.47		A/W
t <sub>R</sub>	Rise time	V <sub>R</sub> = 0 V; λ = 410 nm; R <sub>L</sub> = 50 Ω		1000		ns
		V <sub>R</sub> = 5 V; λ = 410 nm; R <sub>L</sub> = 50 Ω		200		ns
	Shunt Resistance	V <sub>R</sub> = 10 mV		1000		MΩ
	N.E.P.	V <sub>R</sub> = 5 V; λ = 410 nm		1.6 E-14		W/√Hz
V <sub>BR</sub>	Breakdown voltage	I <sub>R</sub> = 2 µA	30			V

**European, International Sales:**



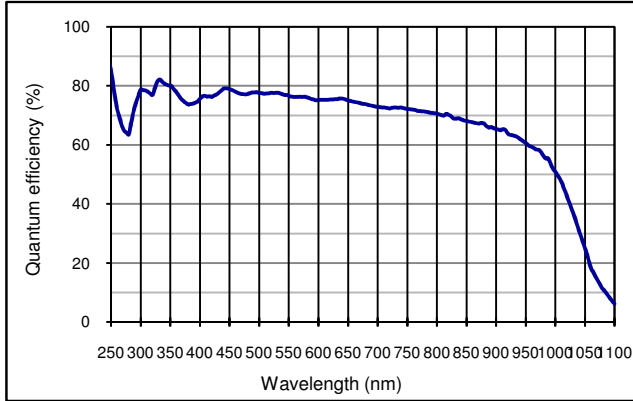
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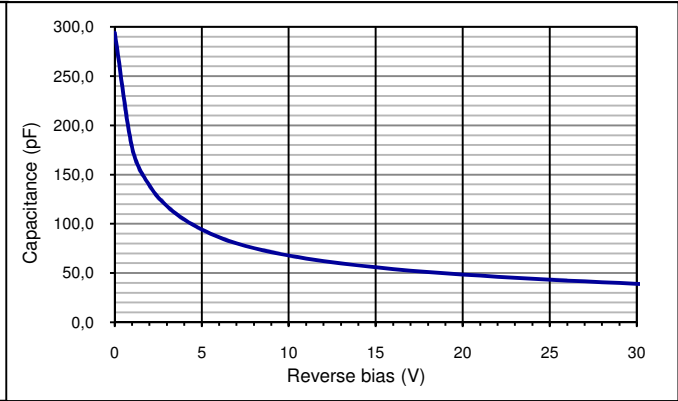


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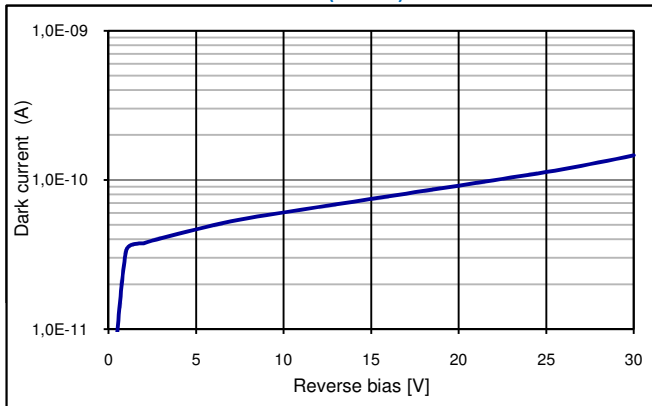
Quantum efficiency (22 °C)



Capacitance as fct of reverse bias (22 °C)



Dark current as fct of bias (22 °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.

**European, International Sales:**



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