
Features

- 7 mm² PIN detector
- High sensitivity
- High shunt resistance
- UV/blue enhanced

Description

UV-blue enhanced square active area PIN photodiode with 7 mm² active area. Metal can type hermetic TO5 package with UV clear glass window.

Application

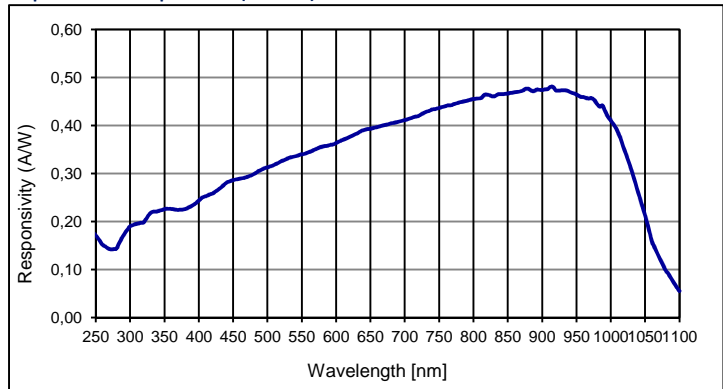
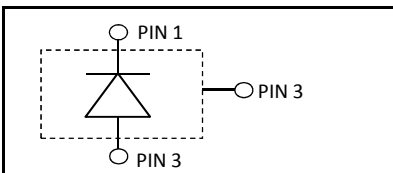
- UV exposure meters
- Pollution monitoring
- Medical equipment
- Fluorescence detector

RoHS

2002/95/EC


Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
T _{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 (22 °C)

Schematic

Electro-optical characteristics @ 22°C

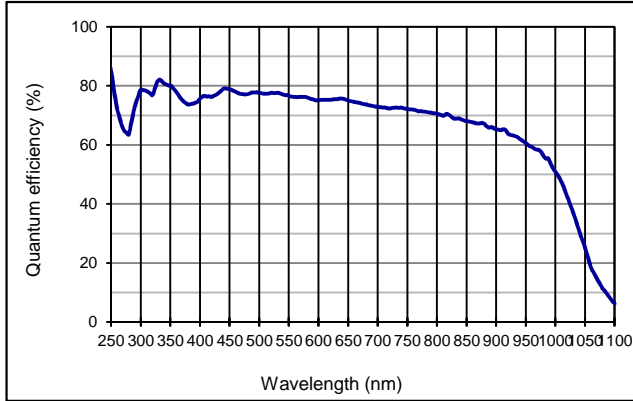
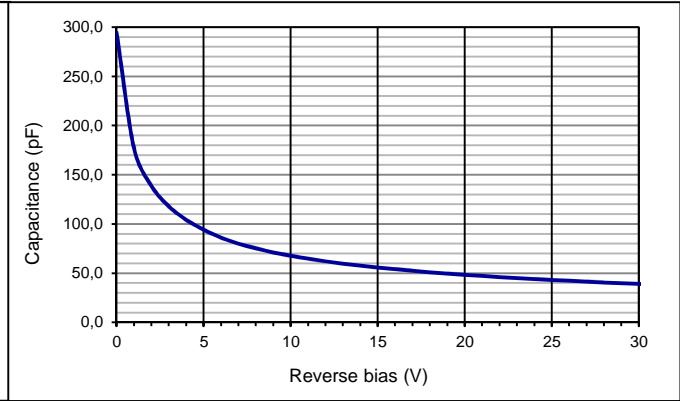
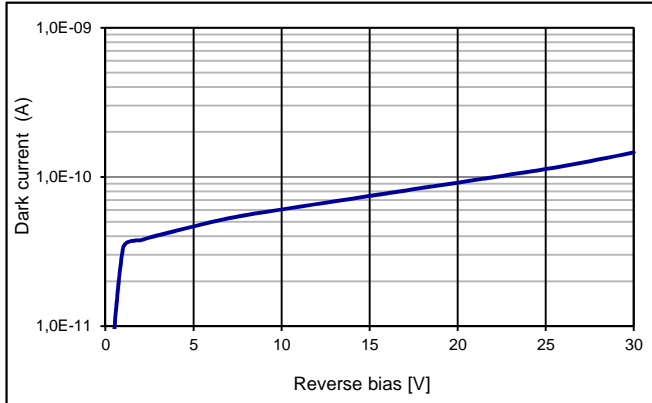
Symbol	Characteristic	Test Condition	Min	Typ	Max	Unit
	Active area		2660 x 2660			µm
	Active area		7.1			mm ²
I _D	Dark current	V _R = 5 V		0.4		nA
C	Capacitance	V _R = 0 V		300		pF
		V _R = 5 V		100		pF
	Responsivity	λ = 340 nm		0.22		A/W
		λ = 900 nm		0.47		A/W
t _R	Rise time	V _R = 0 V; λ = 410 nm; R _L = 50 Ω		1000		ns
		V _R = 5 V; λ = 410 nm; R _L = 50 Ω		200		ns
	Shunt Resistance	V _R = 10 mV		1000		MΩ
	N.E.P.	V _R = 5 V; λ = 410 nm		4.5 E-14		W/√Hz
V _{BR}	Breakdown voltage	I _R = 2 µA	30			V

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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.

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