

Features

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

Description

UV-blue enhanced circular active area PIN photodiode with 50 mm² active area. Non-hermetic BNC connector package with quartz glass window.

Application

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

RoHS

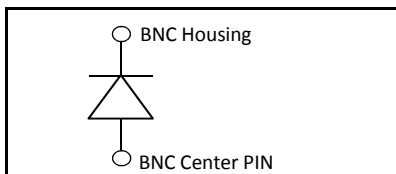
2002/95/EC



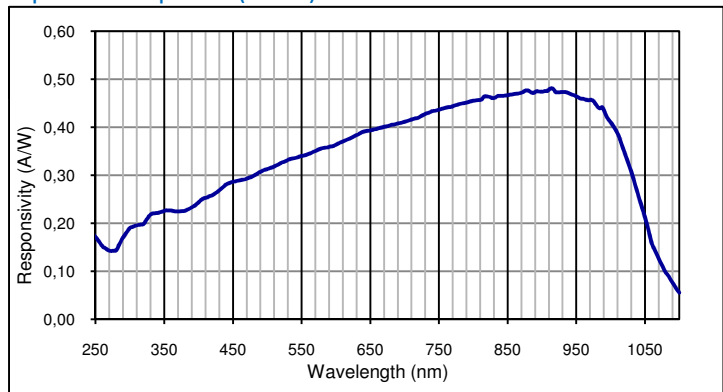
Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
T _{STG}	Storage temp	-20	80	°C
T _{OP}	Operating temp	-20	60	°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		diameter 7980			µm
	Active area		50			mm ²
I _D	Dark current	V _R = 5 V		1	5	nA
C	Capacitance	V _R = 0 V		1700		pF
		V _R = 5 V		650		pF
	Responsivity	λ = 340 nm		0.22		A/W
		λ = 900 nm		0.47		A/W
t _R	Rise time	V _R = 5 V; λ = 410 nm; R _L = 50 Ω		1000		ns
	Shunt Resistance	V _R = 10 mV	80	400		MΩ
	N.E.P.	V _R = 5 V; λ = 410 nm; R _L = 50 Ω		2 E-13		W/√Hz
V _{BR}	Breakdown voltage	I _R = 2 µA	30	50		V

European, International Sales:



International AG

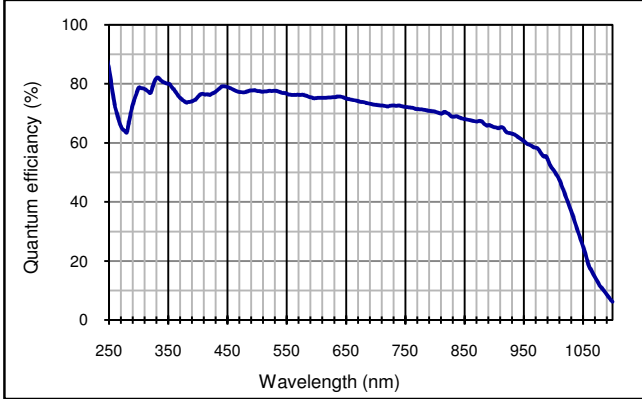
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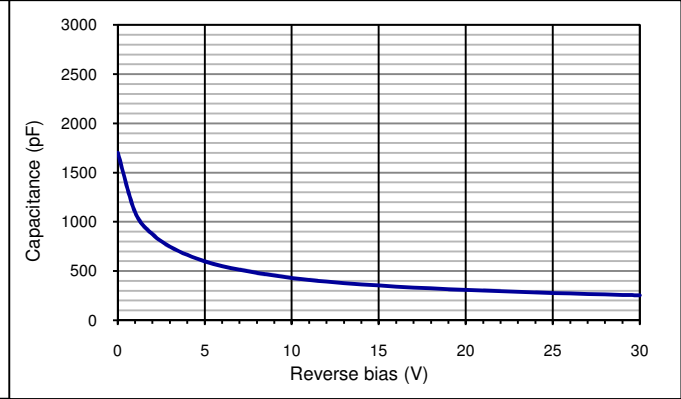


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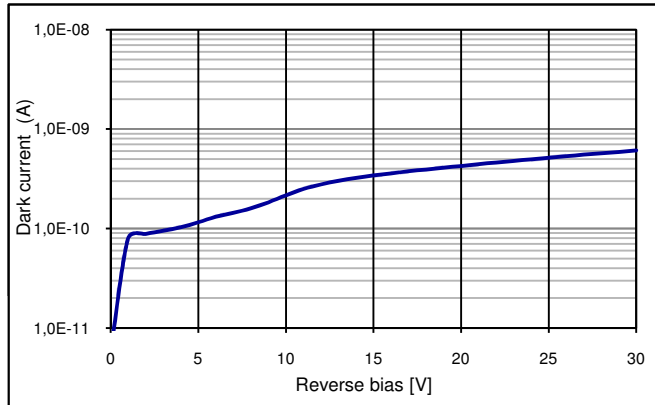
Quantum efficiency (23 °C)



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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