
Features

- 100 mm² PIN detector
- High sensitivity
- High shunt resistance
- Blue-green enhanced

Description

Blue-green enhanced square active area PIN photodiode with 100 mm² active area. Non-hermetic ceramic carrier package with silicone potting (reflow-solderable).

Application

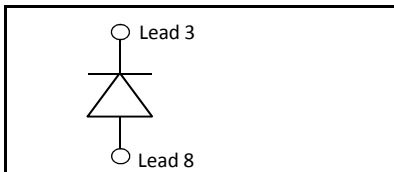
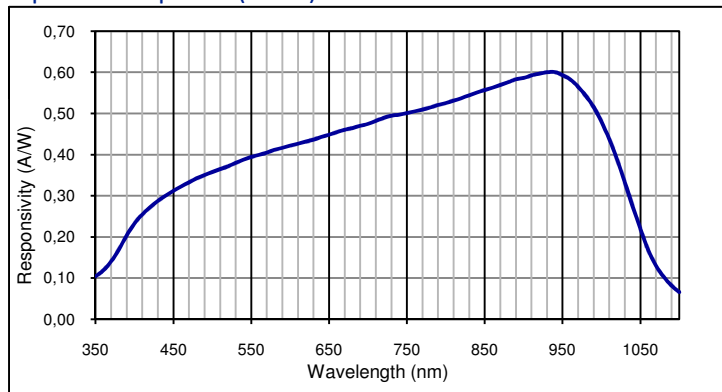
- Precision photometry
- Analytical instruments
- Medical equipment
- Fluorescence detector

RoHS

2002/95/EC


Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
T _{STG}	Storage temp	-40	100	°C
T _{OP}	Operating temp	-20	70	°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		10000 x 10000			μm
	Active area		100			mm ²
I _D	Dark current	V _R = 5 V		1.0		nA
C	Capacitance	V _R = 0 V		720		pF
		V _R = 5 V		275		pF
	Responsivity	λ = 410 nm		0.22		A/W
		λ = 550 nm		0.37		A/W
t _R	Rise time	V _R = 5 V; λ = 410 nm; R _L = 50 Ω		200		ns
	Shunt Resistance	V _R = 10 mV		50		MΩ
	N.E.P.	V _R = 5 V; λ = 410 nm		8 E-14		W/√Hz
V _{BR}	Breakdown voltage	I _R = 2 μA	50			V

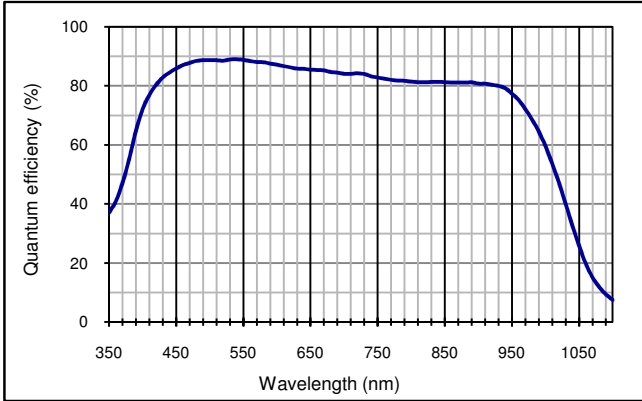
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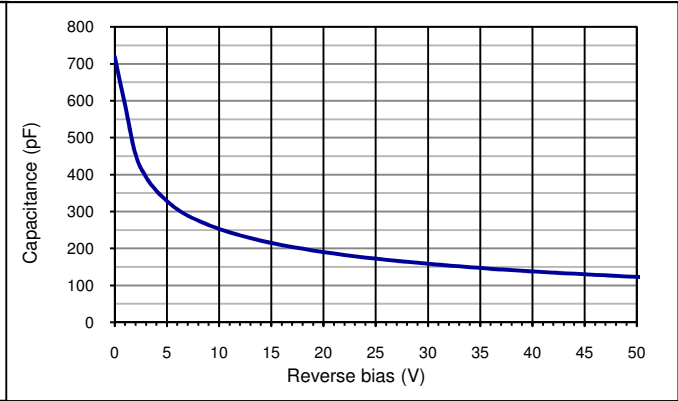
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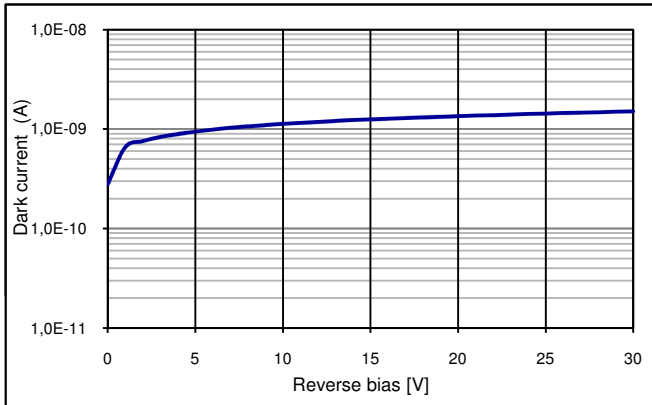
Quantum efficiency (23 °C)



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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