

### Features

- 100 mm<sup>2</sup> PIN detector
- High sensitivity
- High shunt resistance
- Blue-green enhanced

### Description

Blue-green enhanced square active area PIN photodiode with 100 mm<sup>2</sup> active area. Non-hermetic ceramic carrier package with silicone potting. Clear glass window on special request.

### Application

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

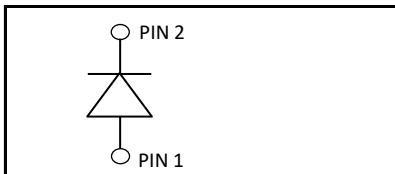
### RoHS

2011/65/EU

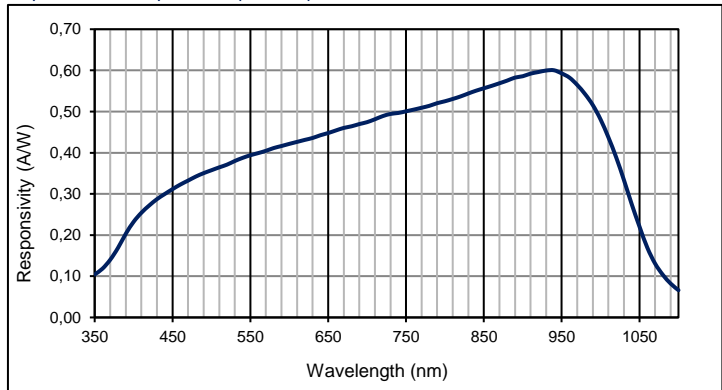
### Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
T <sub>STG</sub>	Storage temp	-20	80	°C
T <sub>OP</sub>	Operating temp	-20	60	°C
V <sub>max</sub>	Max reverse voltage		50	V
I <sub>PEAK</sub>	Peak DC current		10	mA

### Schematic



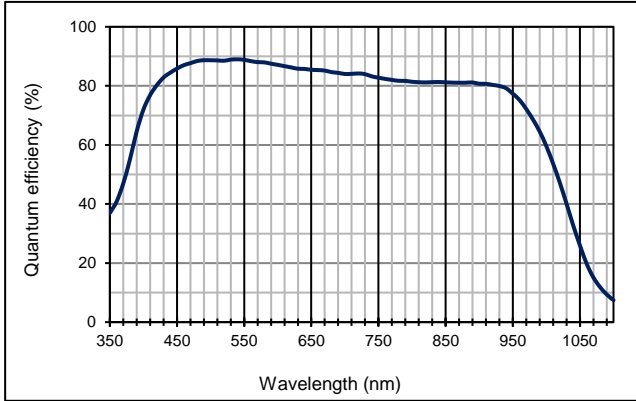
### Spectral response (23 °C)



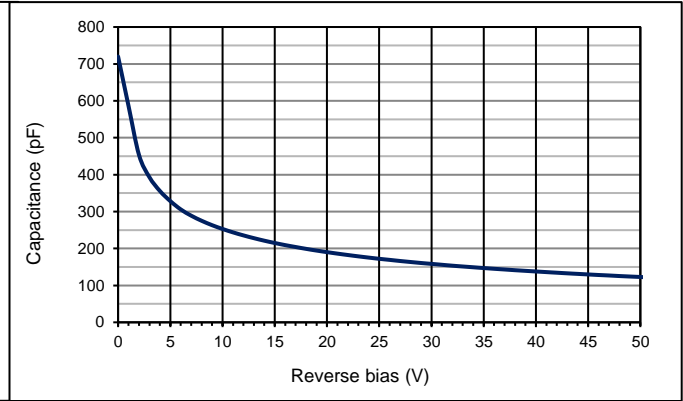
### Electro-optical characteristics @ 23 °C

Symbol	Characteristic	Test Condition	Min	Typ	Max	Unit
	Active area		10000 x 10000			µm
	Active area		100			mm <sup>2</sup>
I <sub>D</sub>	Dark current	V <sub>R</sub> = 5 V		1.0		nA
C	Capacitance	V <sub>R</sub> = 0 V		720		pF
		V <sub>R</sub> = 5 V		275		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> = 5 V; λ = 410 nm; R <sub>L</sub> = 50 Ω		200		ns
	Shunt Resistance	V <sub>R</sub> = 10 mV		50		MΩ
	N.E.P.	V <sub>R</sub> = 5 V; λ = 410 nm		8 E-14		W/√Hz
V <sub>BR</sub>	Breakdown voltage	I <sub>R</sub> = 2 µA	50			V

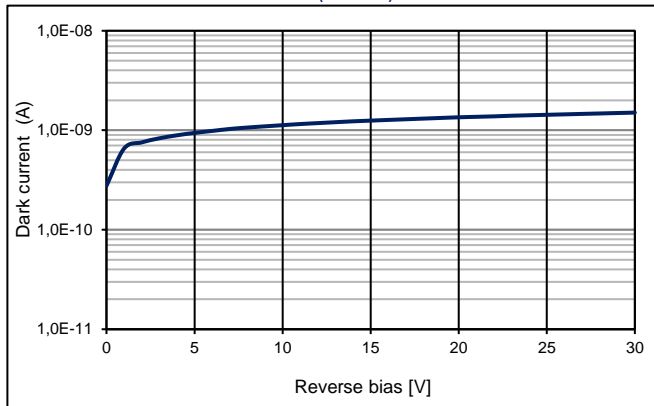
Quantum efficiency (23 °C)



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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