

### Features

- 7 mm<sup>2</sup> PIN detector
- High speed epitaxy
- Fast response time
- Low dark current

### Description

High speed epitaxy square active area PIN photodiode with 7 mm<sup>2</sup> active area. Metal can type hermetic TO5 package with clear glass window.

### Application

- Pulsed light detection
- High speed photometry
- High speed optical communications
- Fiber optic light monitoring

### RoHS

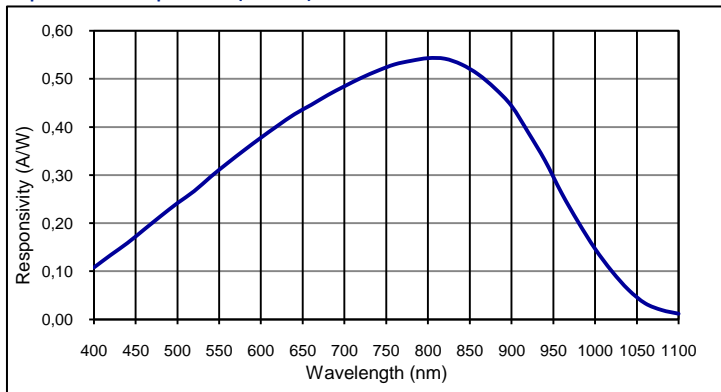
2002/95/EC



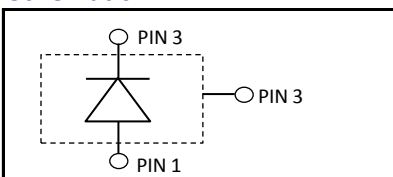
### Absolute maximum ratings

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 (23 °C)



### Schematic



### Electro-optical characteristics @ 23 °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> = 20 V		0.5	1	nA
C	Capacitance	V <sub>R</sub> = 0 V		80		pF
		V <sub>R</sub> = 20 V		20		pF
	Responsivity	λ = 632 nm		0.4		A/W
		λ = 800 nm		0.52		A/W
t <sub>R</sub>	Rise time	V <sub>R</sub> = 20 V; λ = 850 nm; R <sub>L</sub> = 50 Ω		2		ns
	Shunt Resistance	V <sub>R</sub> = 10 mV		200		MΩ
	N.E.P.	V <sub>R</sub> = 20 V; λ = 850 nm		2.4 E-14		W/√Hz
V <sub>BR</sub>	Breakdown voltage	I <sub>R</sub> = 2 µA	30	50		V

#### European, International Sales:

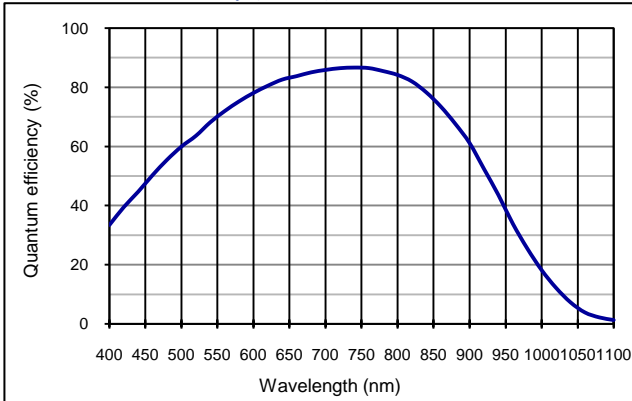
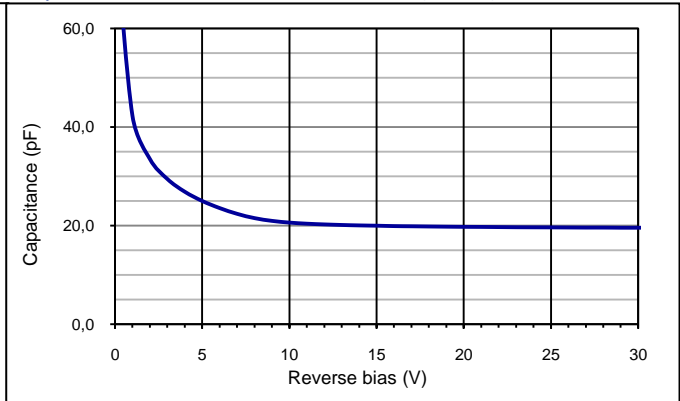
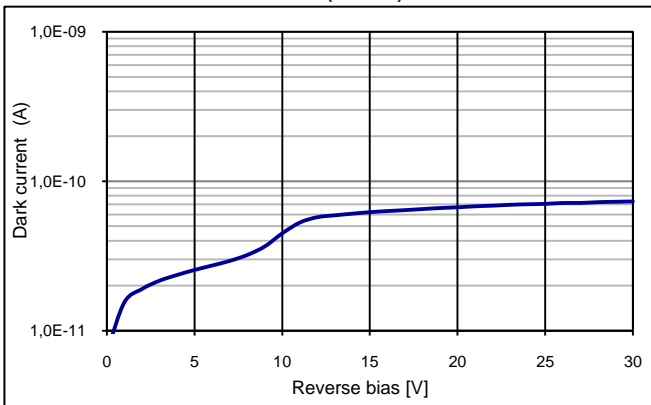


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**Quantum efficiency (23 °C)**

**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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