

Features

- Quadrant detector
- Low dark current
- High shunt resistance
- High sensitivity
- Fully depletable

Description

Square active area quadrant PIN detector with 4 x 25 mm² and 50 μm gaps. Quasi-hermetic ceramic carrier type package with glass cover (reflow solderable).

Application

- Precision photometry
- Medical equipment
- Pulsed light sensor

RoHS

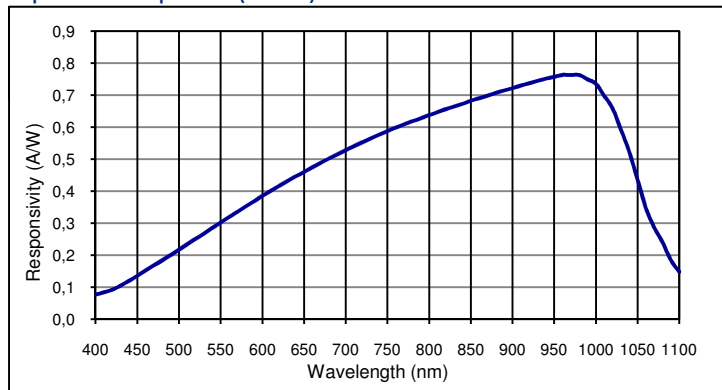
2002/95/EC



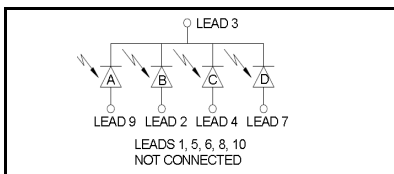
Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
T _{STG}	Storage temp	-55	125	°C
T _{OP}	Operating temp	-40	85	°C
V _{OP}	Operating voltage		250	V
I _{PEAK}	Peak DC current		10	mA

Spectral response (23 °C)



Schematic



Electro-optical characteristics @ 23 °C

Symbol	Characteristic	Test Condition	Min	Typ	Max	Unit
	Number of elements		4 quadrants			
	Active area		10 x 10			mm
	Active area	per element	25			mm ²
	Gap	between elements	50			μm
I _D	Dark current	V _R = 10 V		2.5	5	nA
		V _R = 150 V		10	25	nA
T _K (I _D)	Temperature coefficient	V _R = 10 V; change of dark current		13		%/K
C	Capacitance	V _R = 10 V; f = 10 kHz		25		pF
		V _R = 150 V; f = 10 kHz		13		pF
	Responsivity	λ = 800 nm		0.61		A/W
		λ = 900 nm		0.69		A/W
t _R	Rise time	V _R = 150 V; λ = 905 nm; R _L = 50 Ω		6		ns
V _{BR}	Breakdown voltage	I _R = 2 μA	250			V

European, International Sales:



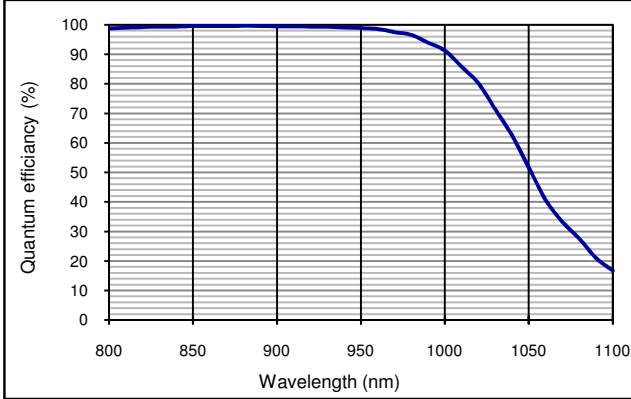
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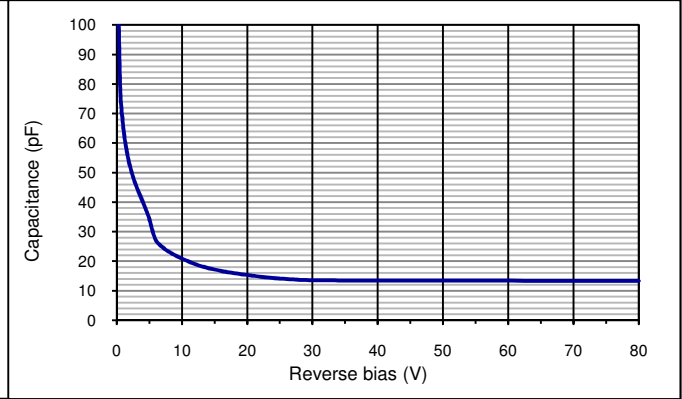


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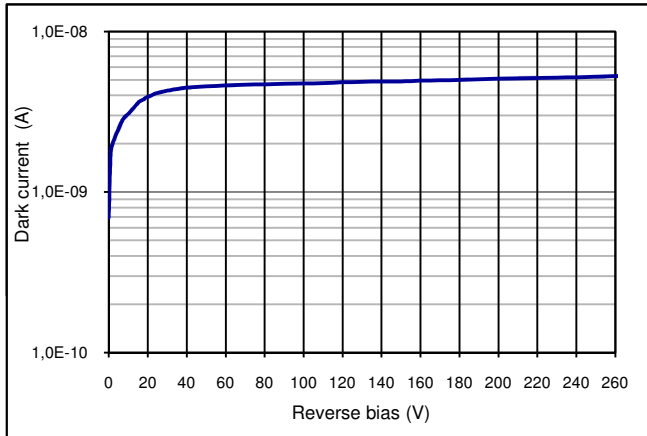
Quantum efficiency (23 °C)



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)

Disclaimer: Due to our strive for continuous improvement, specifications are subject to change within our PCN policy according to JESD46C.

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