

Features

- 7 mm² PIN detector
- High speed epitaxy
- Fast response time
- Low dark current

Description

High speed epitaxy square active area PIN photodiode with 7 mm² 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

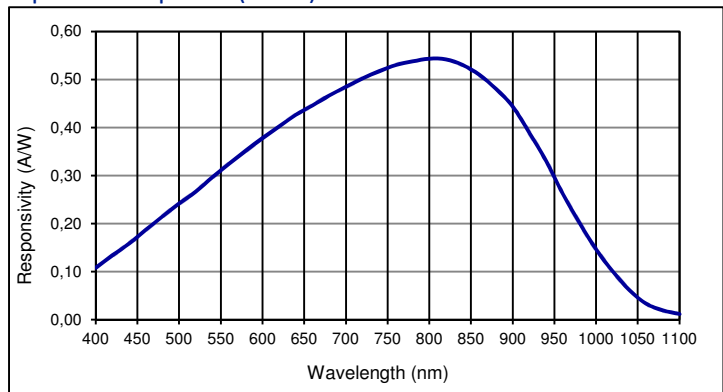
2002/95/EC



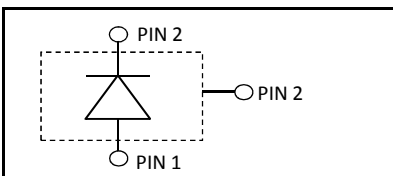
Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
T _{STG}	Storage temp	-55	125	°C
T _{OP}	Operating temp	-40	100	°C
V _{max}	Max reverse voltage		30	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
	Active area		2660 x 2660			μm
	Active area		7.1			mm ²
I _D	Dark current	V _R = 20 V		0.5	1	nA
C	Capacitance	V _R = 0 V		80		pF
		V _R = 20 V		20		pF
	Responsivity	λ = 632 nm		0.4		A/W
		λ = 800 nm		0.52		A/W
t _R	Rise time	V _R = 20 V; λ = 850 nm; R _L = 50 Ω		11		ns
	Shunt Resistance	V _R = 10 mV		200		MΩ
	N.E.P.	V _R = 20 V; λ = 850 nm		2.4 E-14		W/√Hz
V _{BR}	Breakdown voltage	I _R = 2 μA	30	50		V

European, International Sales:

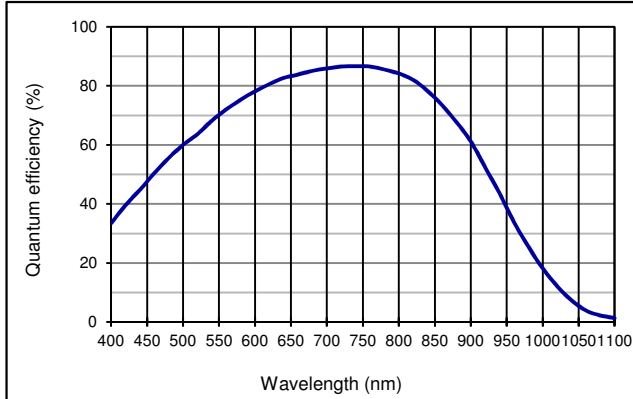
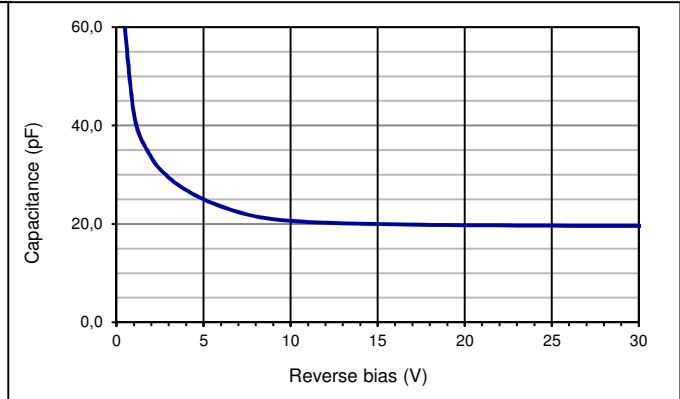
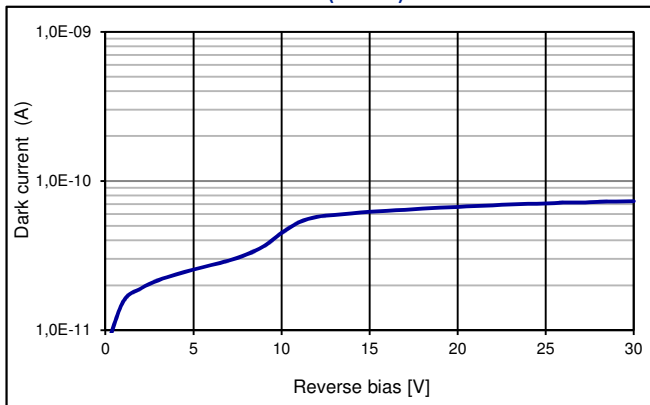


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Quantum efficiency (23 °C)

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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