

Features

- 20 mm² PIN detector
- Low dark current
- Fast rise time, low capacitance
- High QE at 1064 nm
- Fully depletable

Description

Circular active area PIN photodiode with 20 mm² active area. Metal can type isolated and hermetic TO8S package with clear glass window.

Application

- Precision photometry
- 1064 nm laser detection
- Pulsed light sensor

RoHS

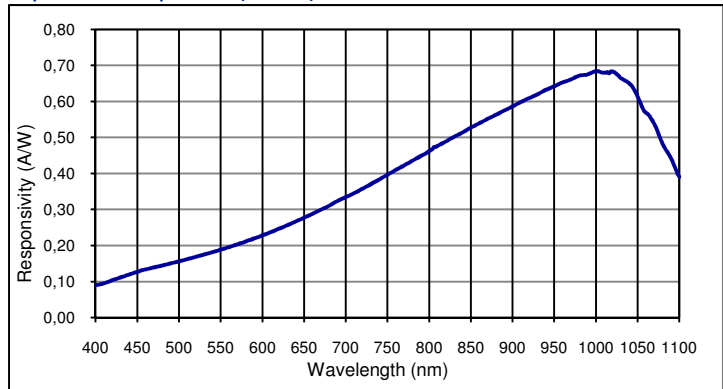
2002/95/EC



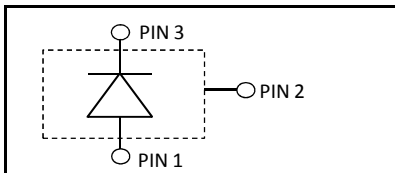
Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
T _{STG}	Storage temp	-55	125	°C
T _{OP}	Operating temp	-40	100	°C
V _{max}	Max reverse voltage		200	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		diameter 5046			μm
	Active area		20			mm ²
I _D	Dark current	V _R = 10 V		10	25	nA
		V _R = 150 V		15	30	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		7		pF
		V _R = 150 V; f = 10 kHz		3.5		pF
	Responsivity	λ = 900 nm		0.60		A/W
		λ = 1064 nm	0.48	0.55	0.65	A/W
t _R	Rise time	V _R = 150 V; λ = 1064 nm; R _L = 50 Ω		12		ns
	Shunt Resistance	V _R = 10 mV		10		MΩ
	N.E.P.	V _R = 150 V; λ = 1064 nm		4.0 E-13		W/√Hz
V _{BR}	Breakdown voltage	I _R = 2 μA	200	300		V

European, International Sales:

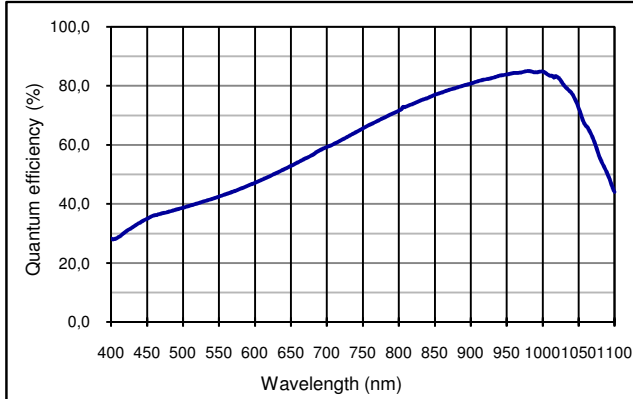
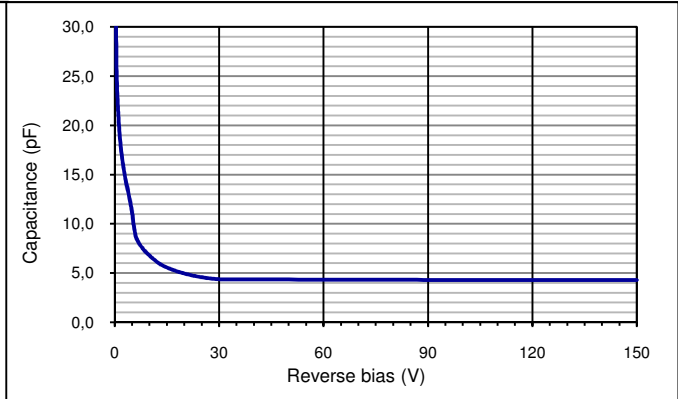
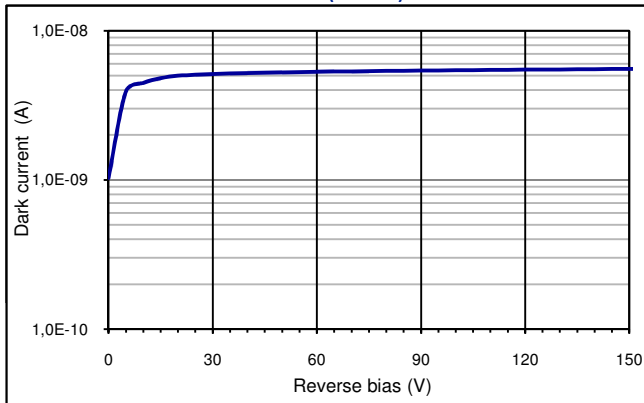
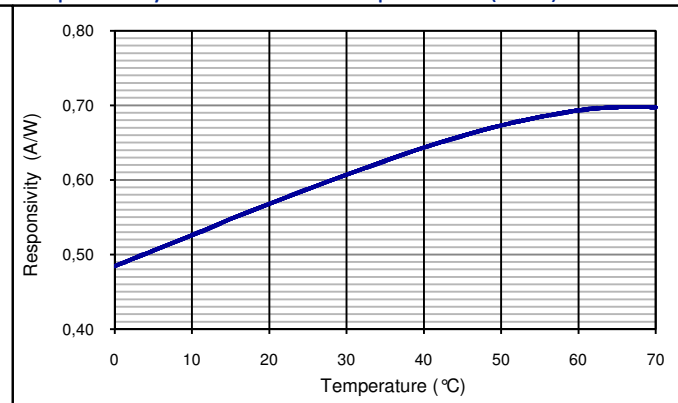


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Quantum efficiency (23 °C)

Capacitance as fct of reverse bias (23 °C)

Dark current as fct of bias (23 °C)

Responsivity as funtion of temperature (10 V)

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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