
Features

- 100 mm² PIN detector
- Long-term stability
- High shunt resistance
- High sensitivity

Description

Low dark current PIN photodiode. Non-hermetic ceramic carrier package with clear glass cover (# 500150). Also available without glass (Order #: 500937). Epoxy or silicone potting on special request.

Application

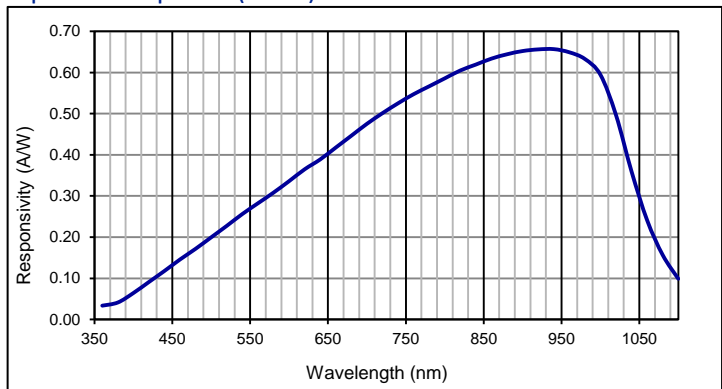
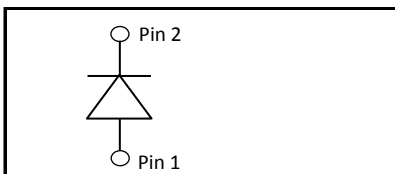
- Precision photometry
- Medical equipment
- Pulsed light sensor

RoHS

2002/95/EC


Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
T _{STG}	Storage temp	-25	100	°C
T _{OP}	Operating temp	-20	70	°C
V _{max}	Max reverse voltage		50	V
I _{PEAK}	Peak DC current		10	mA

Spectral response (23 °C)

Schematic

Electro-optical characteristics @ 23 °C

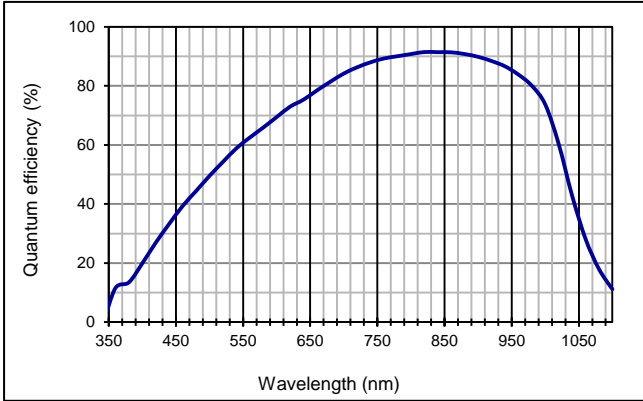
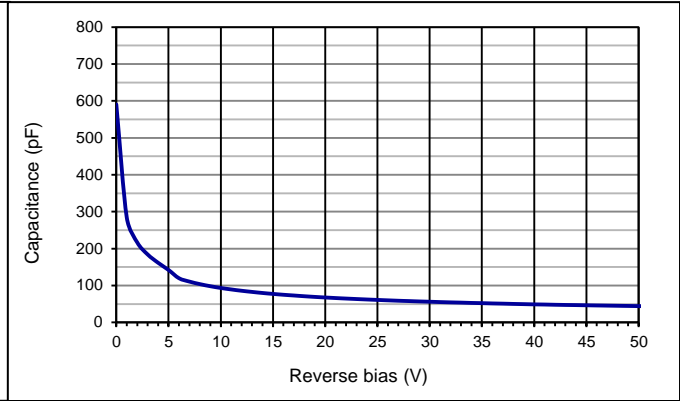
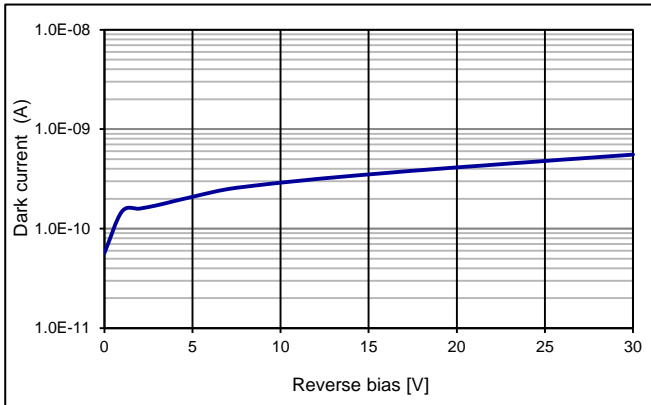
Symbol	Characteristic	Test Condition	Min	Typ	Max	Unit
	Active area		10000 x 10000			μm
	Active area		100			mm ²
I _D	Dark current	V _R = 10 V		0.5	10	nA
C	Capacitance	V _R = 10 V		80		pF
	Responsivity	λ = 900 nm	0.62	0.65		A/W
t _R	Rise time	V _R = 10 V; λ = 850 nm; R _L = 50 Ω		50		ns
	Shunt Resistance	V _R = 10 mV		150		MΩ
	N.E.P.	V _R = 10 V; λ = 900 nm		2 E-14		W/√Hz

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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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