
Features

- 5mm² PIN detector
- Low dark current
- High shunt resistance
- Blue-green enhanced sensitivity

Description

Circular active area PIN photodiode with 5 mm² active area. Metal can type hermetic TO5 package with UV clear glass window.

Application

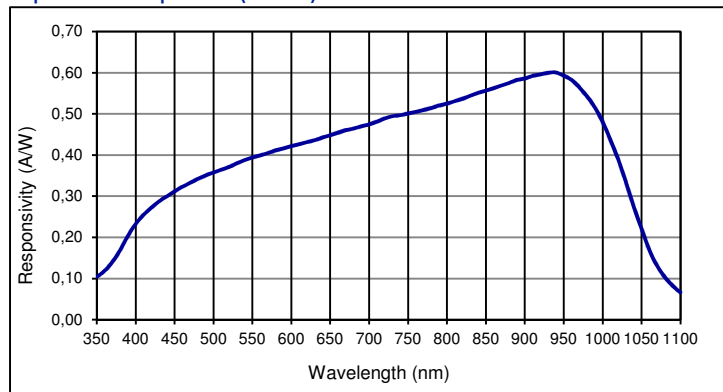
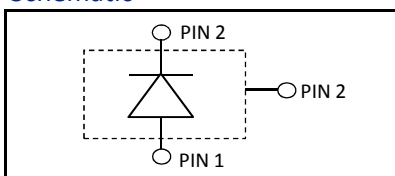
- Precision photometry
- Bar code readers
- Medical equipment
- Pulsed light sensor

RoHS

2002/95/EC


Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
T _{STG}	Storage temp	-55	125	°C
T _{OP}	Operating temp	-40	100	°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		2520 diameter			μm
	Active area		5.0			mm ²
I _D	Dark current	V _R = 5 V		0,1		nA
C	Capacitance	V _R = 0 V		65		pF
		V _R = 5 V		20		pF
	Responsivity	λ = 410 nm		0.22		A/W
		λ = 550 nm		0.37		A/W
t _R	Rise time	V _R = 0 V; λ = 410 nm; R _L = 50 Ω		100		ns
		V _R = 5 V; λ = 410 nm; R _L = 50 Ω		20		ns
	Shunt Resistance	V _R = 10 mV	400	600		MΩ
	N.E.P.	V _R = 5 V; λ = 410 nm		2.6 E-14		W/√Hz
V _{BR}	Breakdown voltage	I _R = 2 μA	50			V

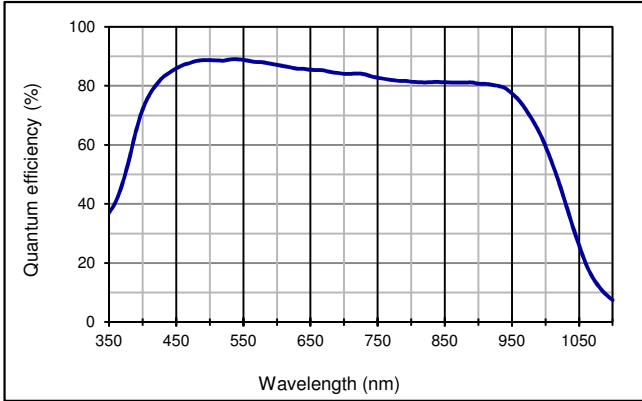
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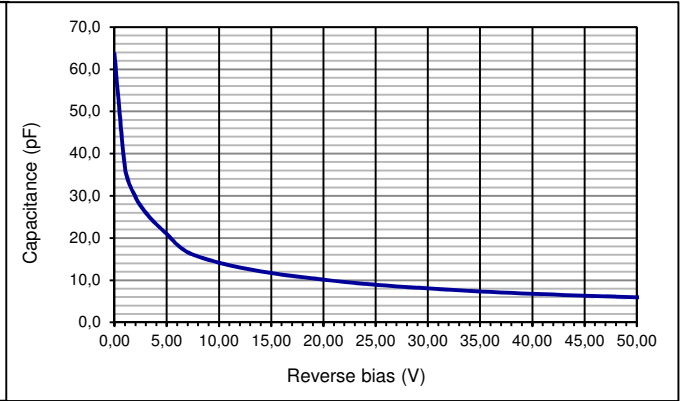
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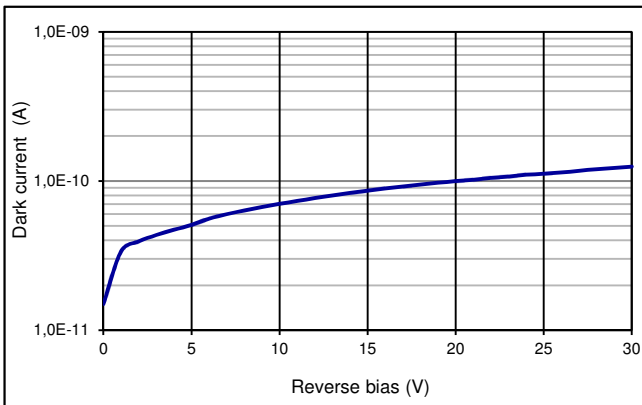
Quantum efficiency (23 °C)



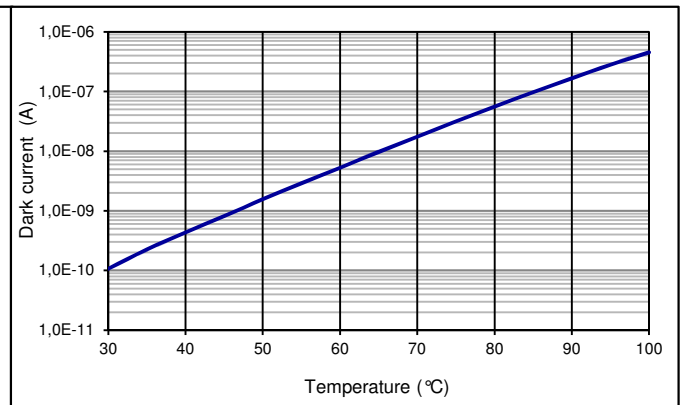
Capacitance as fct of reverse bias (23 °C)



Dark current as fct of bias (23 °C)



Dark current as fct of temperature ($V_R = 10$ 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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