

Features

- 20 mm² PIN detector
- Low dark current
- High shunt resistance
- High sensitivity

Description

Circular active area PIN photodiode with 20 mm² active area. Metal can type hermetic TO8 package with clear glass window.

Application

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

RoHS

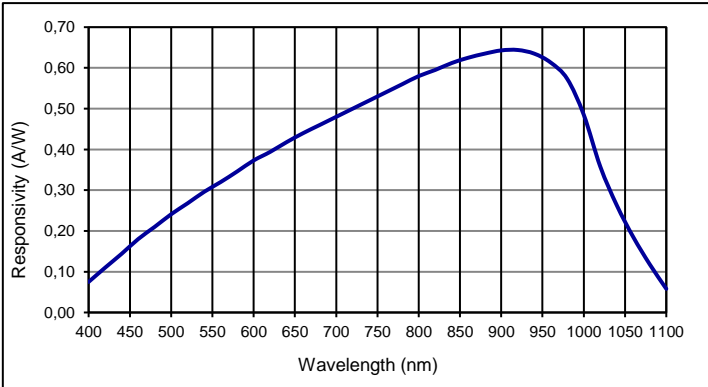
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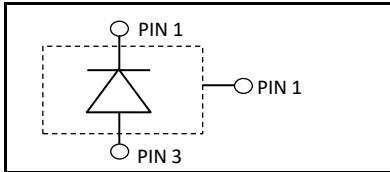
Absolute maximum ratings

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		diameter 5050			μm
	Active area		20			mm ²
I _D	Dark current	V _R = 10 V		0.3	3	nA
C	Capacitance	V _R = 0 V		220		pF
		V _R = 10 V		35		pF
	Responsivity	λ = 632 nm		0.4		A/W
		λ = 900 nm		0.64		A/W
t _R	Rise time	V _R = 0 V; λ = 850 nm; R _L = 50 Ω		2000		ns
		V _R = 10 V; λ = 850 nm; R _L = 50 Ω		25		ns
		V _R = 20 V; λ = 850 nm; R _L = 50 Ω		15		ns
		V _R = 80 V; λ = 850 nm; R _L = 50 Ω		6		ns
	Shunt Resistance	V _R = 10 mV		700		MΩ
	N.E.P.	V _R = 10 V; λ = 900 nm		1.5 E-14		W/√Hz
V _{BR}	Breakdown voltage	I _R = 2 μA	30			V

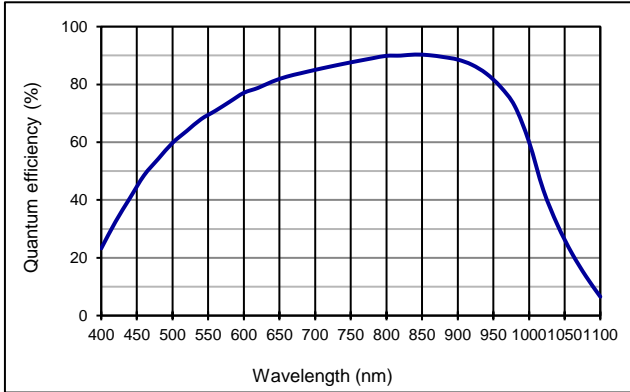
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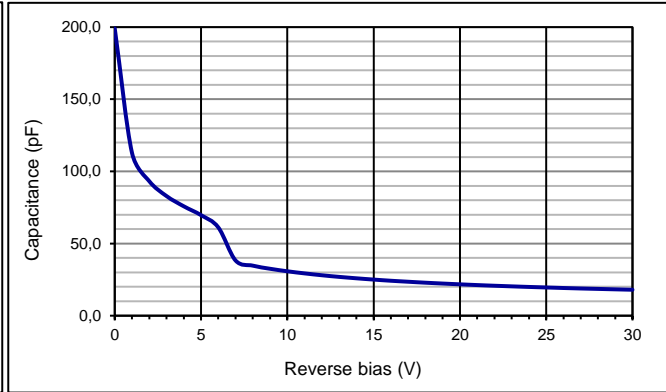
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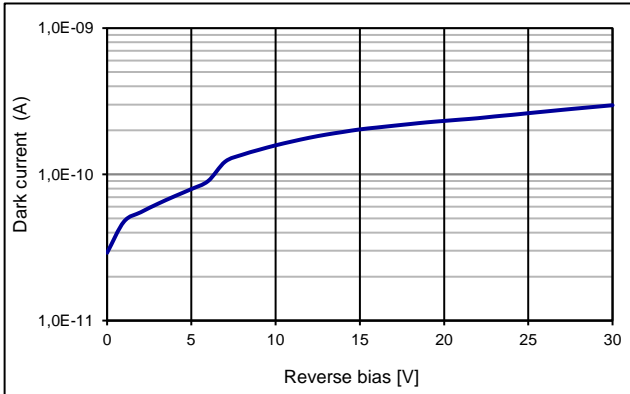
Quantum efficiency (23 °C)



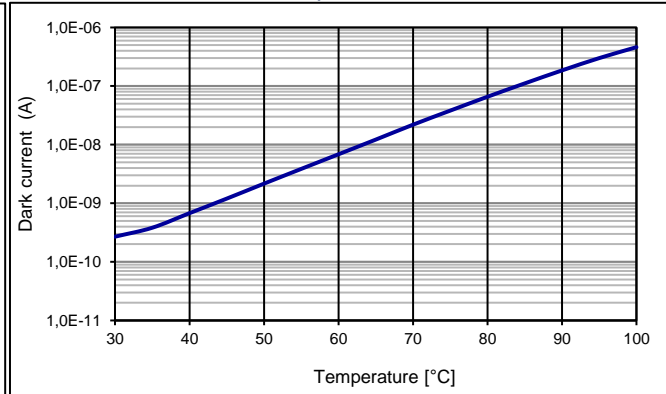
Capacitance as fct of reverse bias (23 °C)



Dark current as fct of bias (23 °C)



Dark current as fct of temperature (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.

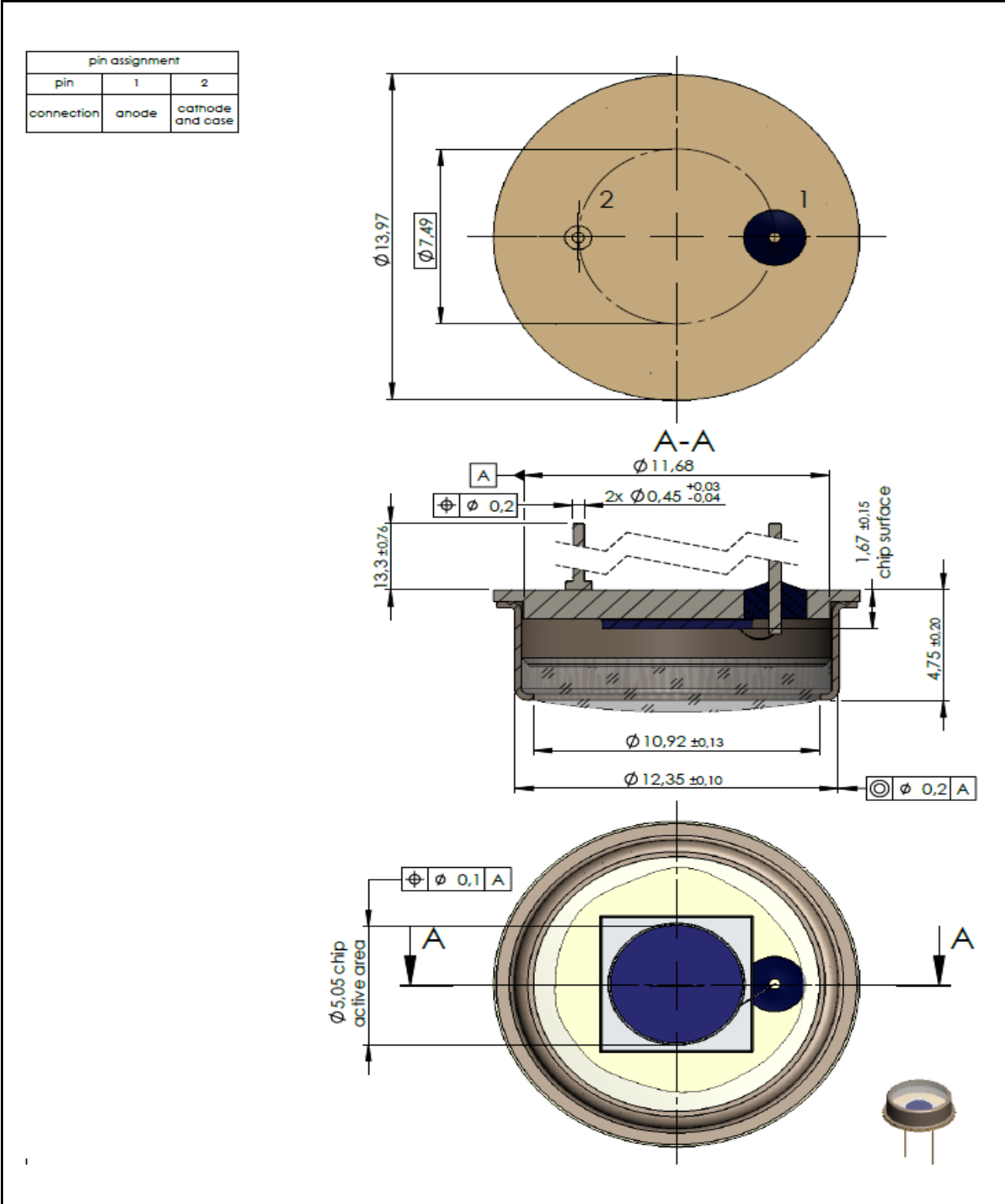
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Dimensions



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