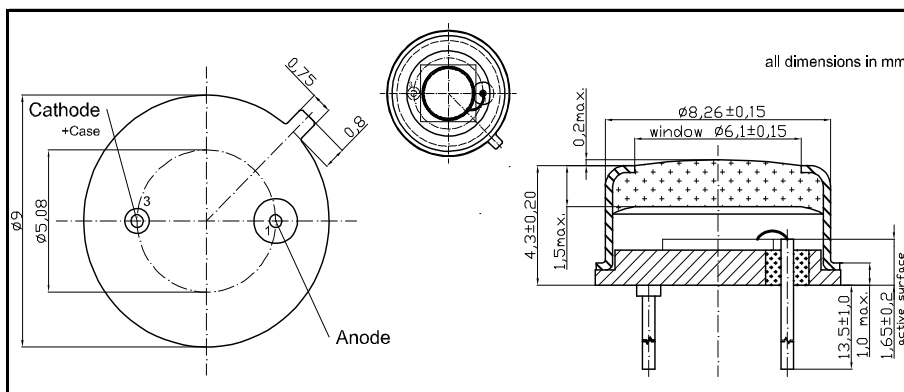




Features

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

Description

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

Application

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

RoHS

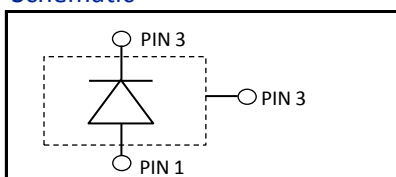
2002/95/EC



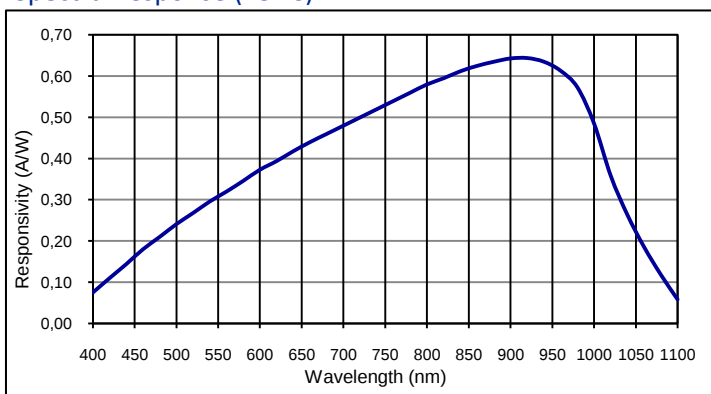
Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
T_{STG}	Storage temp	-55	125	°C
T_{OP}	Operating temp	-40	100	°C
V_{max}	Max reverse voltage		20	V
I_{PEAK}	Peak DC current		10	mA

Schematic



Spectral response (23 °C)



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	$V_R = 10 \text{ V}$		0.1		nA
C	Capacitance	$V_R = 0 \text{ V}$		65		pF
		$V_R = 10 \text{ V}$		10		pF
	Responsivity	$\lambda = 632 \text{ nm}$		0.4		A/W
		$\lambda = 900 \text{ nm}$		0.64		A/W
t_R	Rise time	$V_R = 0 \text{ V}; \lambda = 850 \text{ nm}; R_L = 50 \Omega$		2000		ns
		$V_R = 10 \text{ V}; \lambda = 850 \text{ nm}; R_L = 50 \Omega$		13		ns
	Shunt Resistance	$V_R = 10 \text{ mV}$		2000		MΩ
	N.E.P.	$V_R = 10 \text{ V}; \lambda = 900 \text{ nm}$		8.8 E-15		W/√Hz
V_{BR}	Breakdown voltage	$I_R = 2 \mu\text{A}$	30			V

European, International Sales:

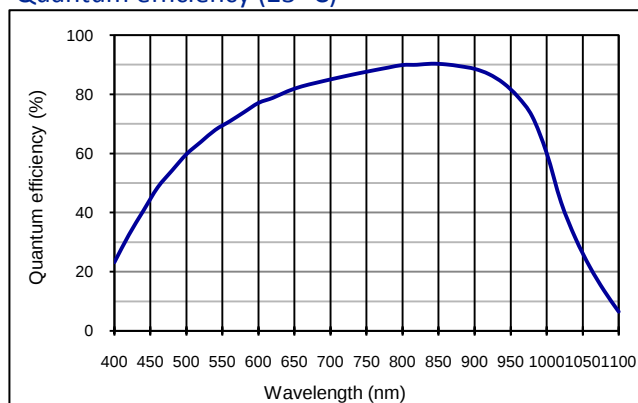
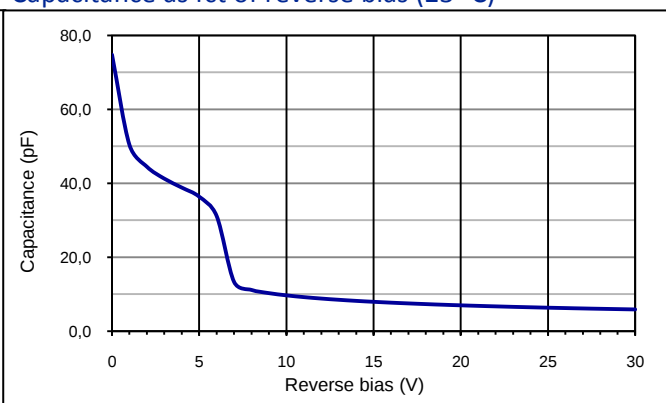
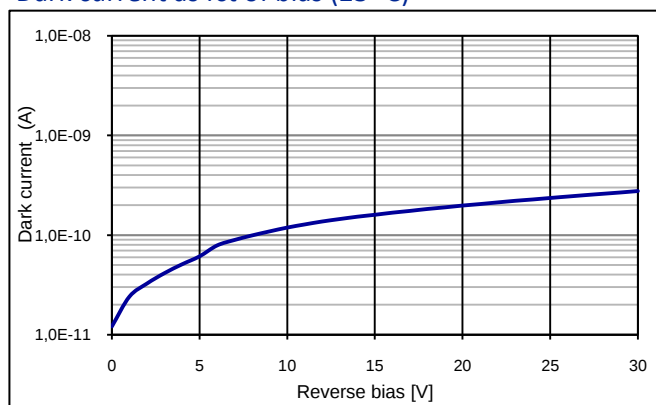


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Quantum efficiency (23 °C)

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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Authorized Distributor

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