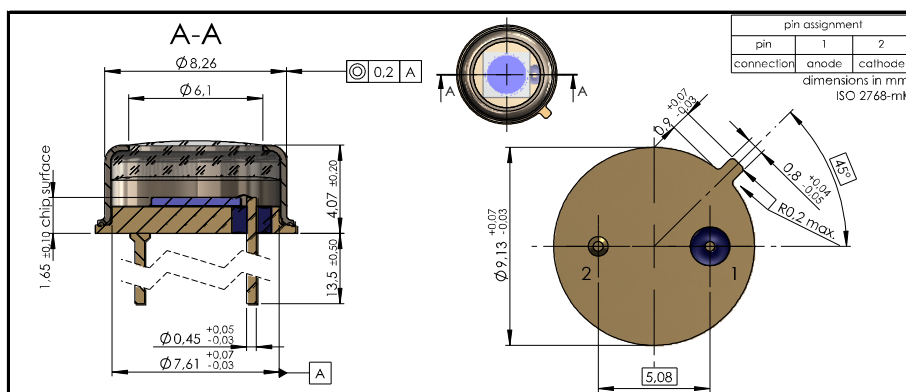




Features

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

Description

Circular active area PIN photodiode with 10 mm² active area. Metal can type hermetic TO5 package with clear glass window.

Application

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

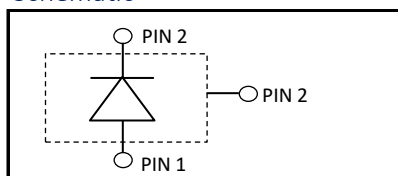
RoHS

2011/65/EU

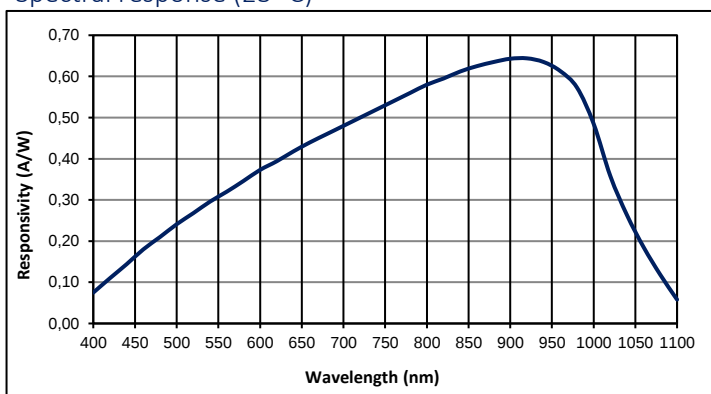
Absolute maximum ratings

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



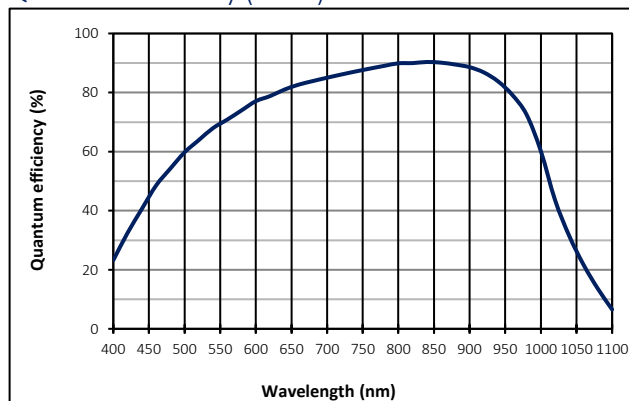
Spectral response (23 °C)



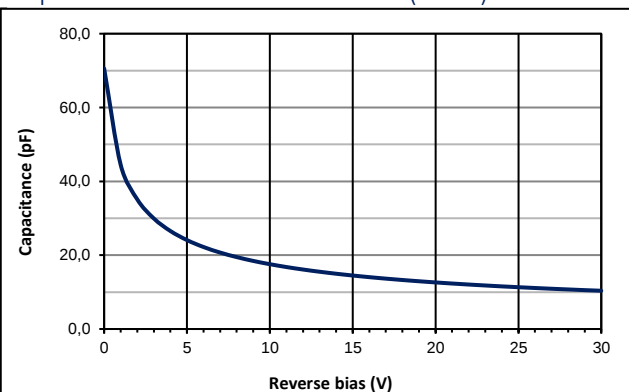
Electro-optical characteristics @ 23 °C

Symbol	Characteristic	Test Condition	Min	Typ	Max	Unit
	Active area		3570 diameter			μm
	Active area		10.0			mm ²
I _D	Dark current	V _R = 10 V		0.2		nA
C	Capacitance	V _R = 0 V		100		pF
		V _R = 10 V		15		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		20		ns
	Shunt Resistance	V _R = 10 mV		1500		MΩ
	N.E.P.	V _R = 10 V; λ = 900 nm		1.3 E-14		W/√Hz
V _{BR}	Breakdown voltage	I _R = 2 μA	30			V

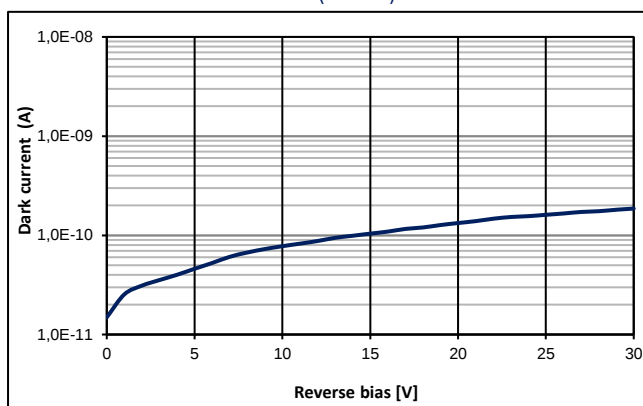
Quantum efficiency (23 °C)



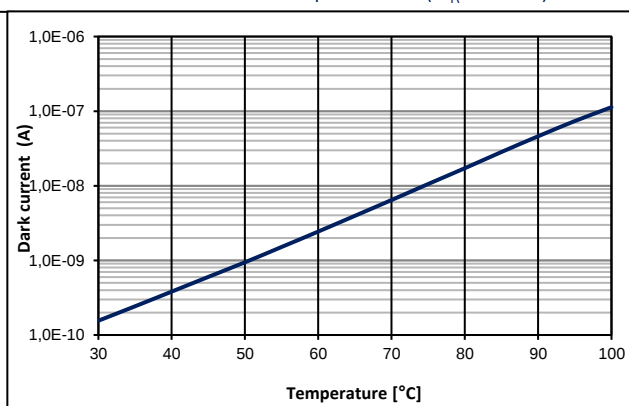
Capacitance as fct of reverse bias (23 °C)



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"