

Features

- 100 mm² PSD
- Dual-axis, duo-lateral
- High position resolution
- High NIR sensitivity

Description

Square active area position sensing PIN photodiode with 100 mm² active area. Ceramic carrier type non-hermetic package with clear glass window.

Application

- Laser positioning
- Precision photometry
- Instrumentation
- Medical equipment
- Pulsed light sensor

RoHS

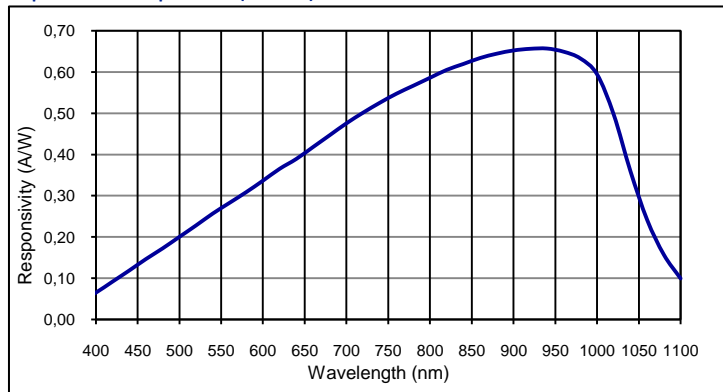
2002/95/EC



Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
T _{STG}	Storage temp	-20	80	°C
T _{OP}	Operating temp	-20	60	°C
V _{max}	Max reverse voltage	20		V
I _{PEAK}	Peak DC current		10	mA

Spectral response (23 °C)



Electro-optical characteristics @ 23 °C

Symbol	Characteristic	Test Condition	Min	Typ	Max	Unit
	Active area		10 x 10			mm
	Active area		100.0			mm ²
I _D	Dark current	V _R = 10 V		80	300	nA
C	Capacitance	V _R = 0 V		225		pF
		V _R = 10 V		75		pF
		λ = 633 nm		0.4		A/W
	Responsivity	λ = 850 nm		0.62		A/W
t _R	Rise time	V _R = 10 V; λ = 865 nm; R _L = 50 Ω		4000		ns
	Interelectrode Resistance	E = 0 lx		12		kΩ
	Noise lim. resolution	λ = 632 nm; P = 0.5 μW, spot dia. 0.5 mm		0.2		μm
	Position detection error	λ = 632 nm; P = 0.5 μW, spot dia. 0.5 mm		± 1		%
V _{BR}	Breakdown voltage	I _R = 2 μA		30		V

European, International Sales:



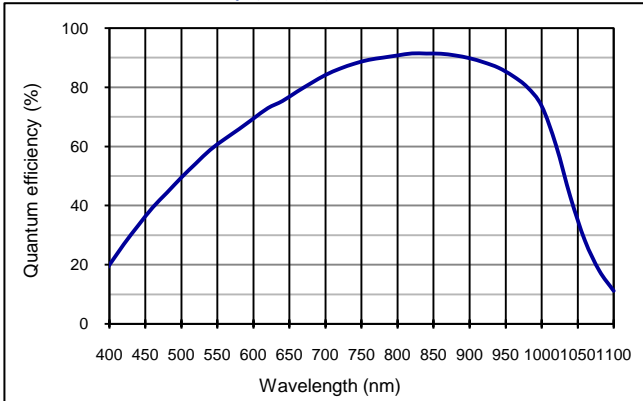
First Sensor AG
 Peter-Behrens-Strasse 15
 12459 Berlin
 Germany
 T +49 30 6399 2399
 F +49 30 639923-752
 sales.opto@first-sensor.com

USA:

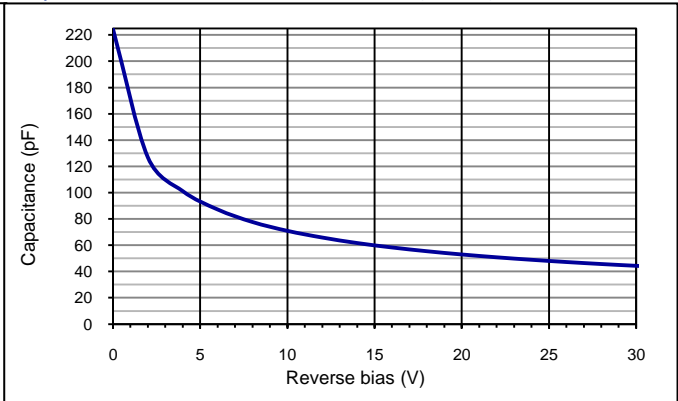


First Sensor Inc.
 5700 Corsa Avenue #105
 Westlake Village
 CA 91362 USA
 T +1 818 706 3400
 F +1 818 889 7053
 sales.us@first-sensor.com

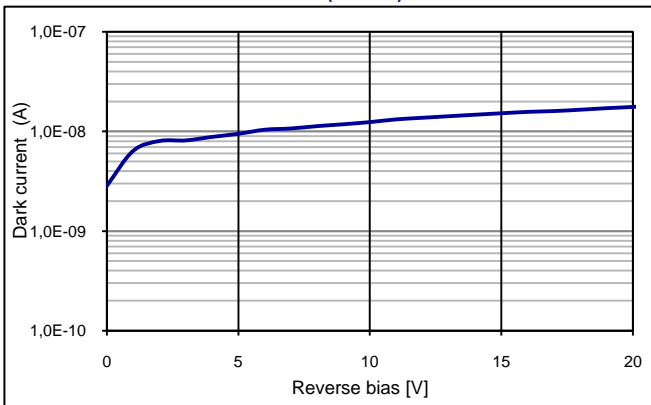
Quantum efficiency (23 °C)



Capacitance as fct of reverse bias (23 °C)



Dark current as fct of bias (23 °C)



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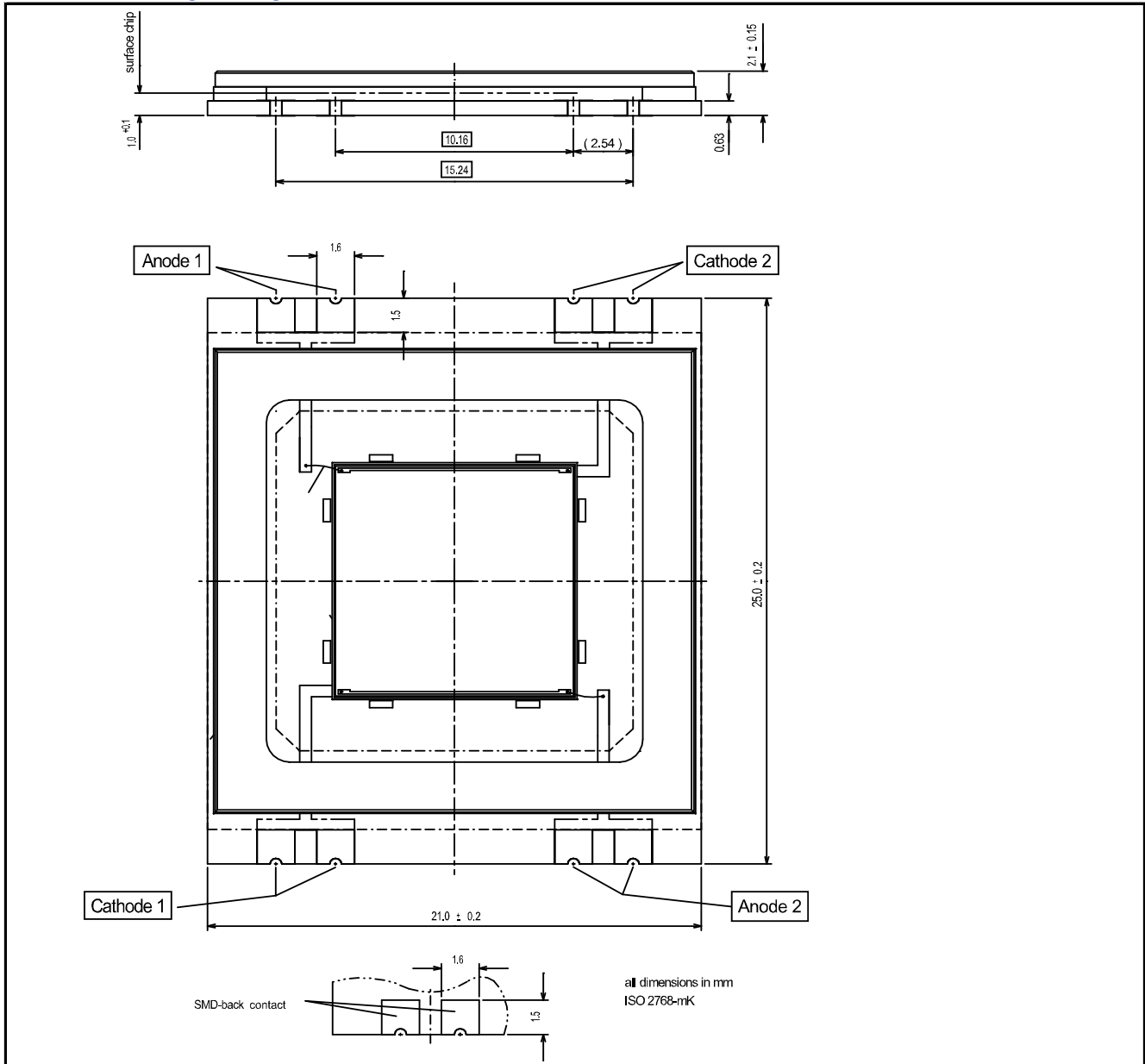


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Technical Drawing, Package: CERsmd

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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