

Features

- Quadrant detector
- Low dark current
- Fast rise time, low capacitance
- High QE at 1064 nm

Description

Square active area quadrant PIN detector with 4 x 25 mm² and 50 μm gaps, optimized for 1064 nm. Quasi-hermetic ceramic carrier type package with glass cover (reflow solderable).

Application

- 1064 nm laser detection
- High speed photometry
- NIR pulsed light sensor
- Laser guidance

RoHS

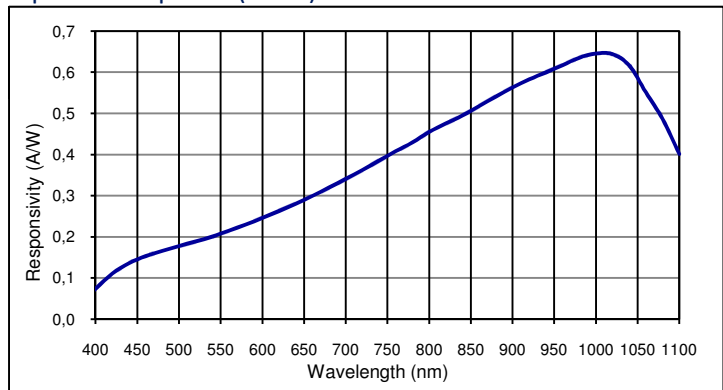
2002/95/EC



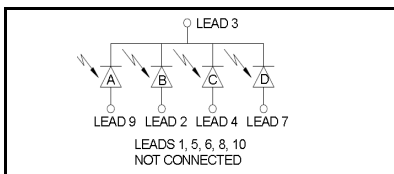
Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
T _{STG}	Storage temp	-55	125	°C
T _{OP}	Operating temp	-40	85	°C
V _{OP}	Operating voltage		250	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
	Number of elements		4 quadrants			
	Active area		10 x 10			mm
	Active area	per element	25			mm ²
	Gap	between elements	50			μm
I _D	Dark current	V _R = 150 V, per element		6.5	20	nA
C	Capacitance	V _R = 150 V, per element		10		pF
	Responsivity	V _R = 150 V; λ = 1064 nm; R _L = 50 Ω	0.42	0.48	0.65	A/W
t _R	Rise time	V _R = 180 V; λ = 1064 nm; R _L = 50 Ω		12		ns
V _{BR}	Breakdown voltage	I _R = 2 μA	250			V
	Temperature coefficient	Change of I _{PH} with temperature		1.07		%/K
	Cross talk	V _R = 150 V; λ = 1064 nm; R _L = 50 Ω		2		%

European, International Sales:

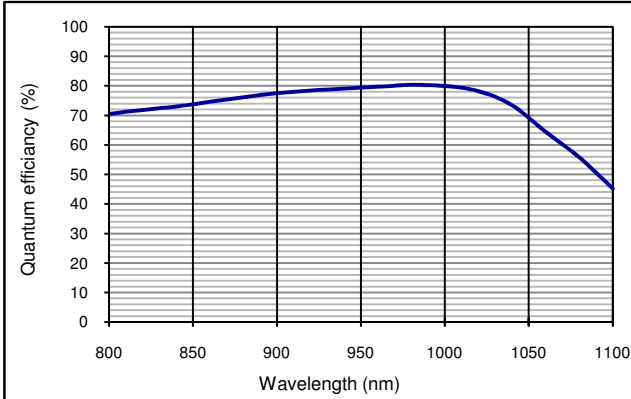
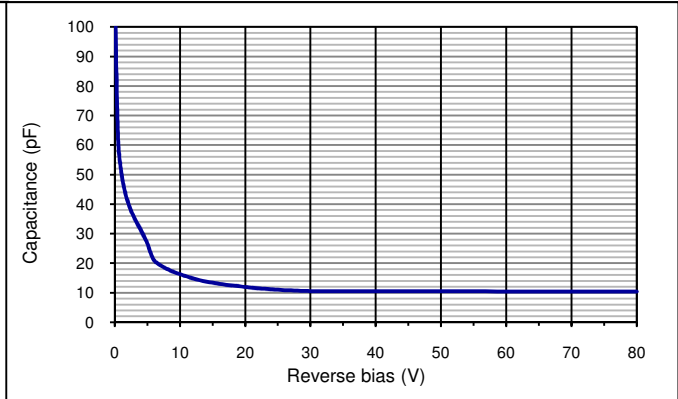
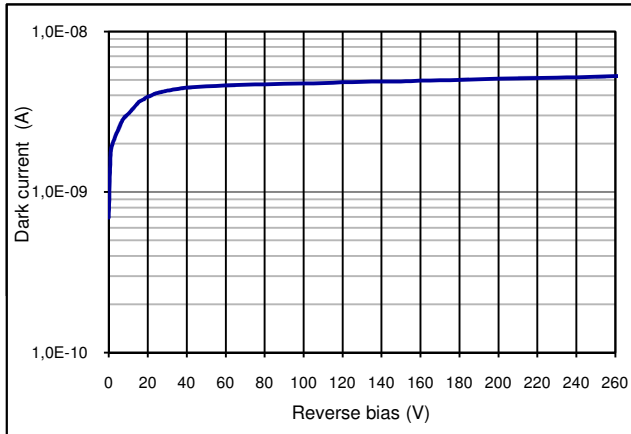
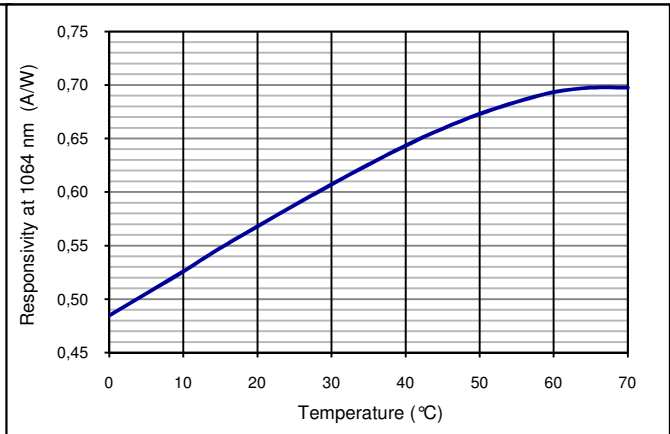


First Sensor AG
 Peter-Behrens-Strasse 15
 12459 Berlin
 Germany
 Phone: +49-30-6399-2399
 Fax: +49-30-6399-23752
 E-Mail: sales.opto@first-sensor.com

USA:



Pacific Silicon Sensor, Inc.
 5700 Corsa Avenue #105
 Westlake Village
 CA 91362 USA
 Phone: +1-818-706-3400
 Fax: +1-818-889-7053
 E-Mail: sales@pacific-sensor.com

Quantum efficiency (23 °C)

Capacitance as fct of reverse bias (23 °C)

Dark current as fct of bias (23 °C)

Responsivity at 1064 nm as fct of temperature

Package dimension:

Small quantities: Foam pad, boxed (12 cm x 16.5 cm)

Disclaimer: Due to our strive for continuous improvement, specifications are subject to change within our PCN policy according to JESD46C.

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First Sensor AG
 Peter-Behrens-Strasse 15
 12459 Berlin
 Germany
 Phone: +49-30-6399-2399
 Fax: +49-30-6399-23752
 E-Mail: sales.opto@first-sensor.com

USA:


Pacific Silicon Sensor, Inc.
 5700 Corsa Avenue #105
 Westlake Village
 CA 91362 USA
 Phone: +1-818-706-3400
 Fax: +1-818-889-7053
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