
Features

- PIN PD with 100 mm² active area
- High speed epitaxy
- Fast response time
- Low dark current

Description

High speed epitaxy PIN photodiode with 100 mm² square active area. Non-hermetic ceramic carrier package with glass window.

Application

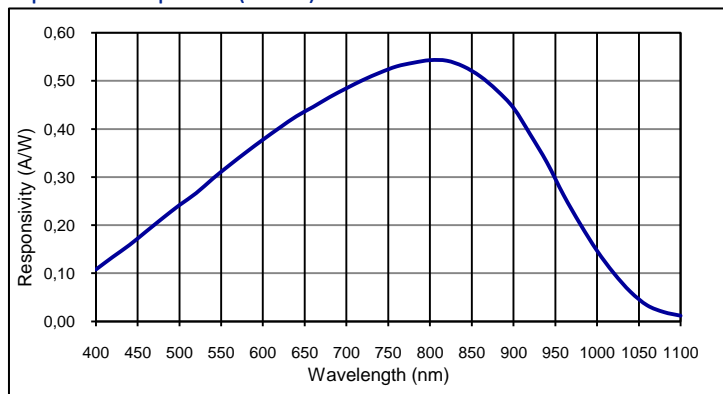
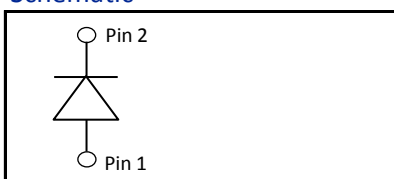
- Pulsed light detection
- High speed photometry
- High speed optical communications
- Fiber optic light monitoring

RoHS

2002/95/EC


Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
T _{STG}	Storage temp	-40	125	°C
T _{OP}	Operating temp	-40	100	°C
V _{max}	Max reverse voltage		100	V
I _{PEAK}	Peak DC current		10	mA

Spectral response (23 °C)

Schematic

Electro-optical characteristics @ 23 °C

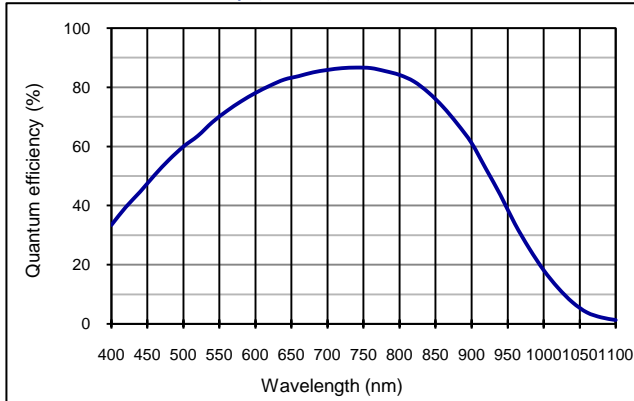
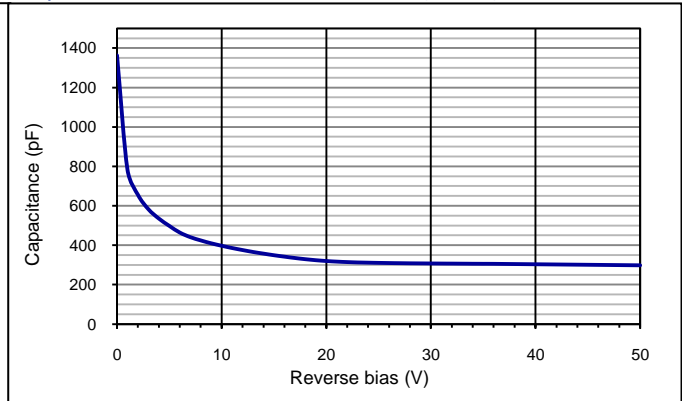
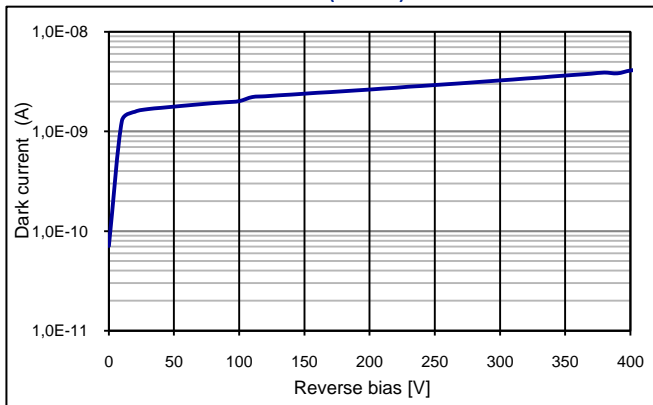
Symbol	Characteristic	Test Condition	Min	Typ	Max	Unit
	Active area		10000 x 10000			µm
	Active area		100			mm ²
I _D	Dark current	V _R = 20 V		2	10	nA
C	Capacitance	V _R = 0 V		1400		pF
		V _R = 20 V		350		pF
	Responsivity	λ = 632 nm		0.4		A/W
		λ = 800 nm		0.52		A/W
t _R	Rise time	V _R = 20 V; λ = 850 nm; R _L = 50 Ω		5		ns
	Shunt Resistance	V _R = 10 mV		50		MΩ
	N.E.P.	V _R = 20 V; λ = 850 nm		4.9 E-14		W/√Hz
V _{BR}	Breakdown voltage	I _R = 2 µA	30	50		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)

Application hints:

Please refer to document "Instructions for handling and processing".

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.

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Photodiodes](#) category:

Click to view products by [First Sensor](#) manufacturer:

Other Similar products are found below :

[LTR-526AD](#) [OED-SP-7L](#) [LTR-536AB](#) [LTR-743DBM1-TA](#) [67-21SYGC-S349-TR8](#) [SFH 2200 A01](#) [HFD3081-108-XBA](#) [BPW 34 S E9601](#)
[SFH 2713](#) [SFH 2703](#) [LTR-546AD](#) [BPV23FL](#) [BPW 34 FAS](#) [BPW 34 FS](#) [IG17X1000S4I](#) [IG22X250S4I](#) [VTD205H](#) [VTD205KH](#)
[VTP1220FBH](#) [VTP1232FH](#) [VTP4085H](#) [SFH 2400](#) [OP913WSL](#) [OPF794](#) [PD70-01C/TR7](#) [LTR-536AD](#) [VTP8651H](#) [VTD206KH](#) [VTB1013H](#)
[BPV23NF](#) [OP905](#) [LTR-516AD](#) [BPW 34 FS-Z](#) [VTD34FH](#) [QSB34CGR](#) [SFH 2500 FA](#) [SFH 213 FA](#) [PD15-22C/TR8](#) [VEMD5510C](#) [SFH](#)
[2200](#) [VEMD5510CF](#) [APS5130PD7C-P22](#) [SAH230M](#) [SAH230M2](#) [SAH500M2](#) [BP 104 FS](#) [BPV22F-AS12](#) [BPW 21](#) [BPW 34 SR-Z](#) [BPX 65](#)