
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 silicone potting.

Application

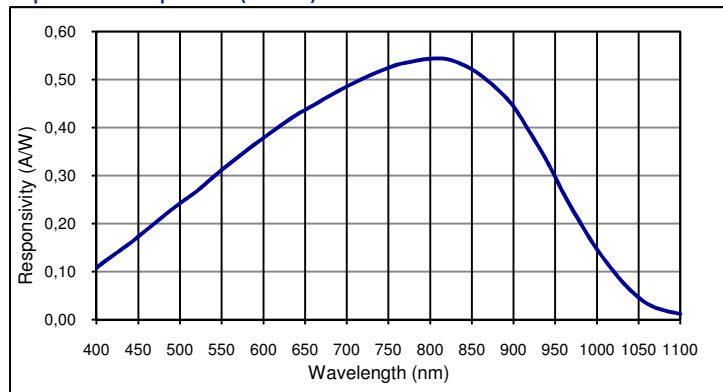
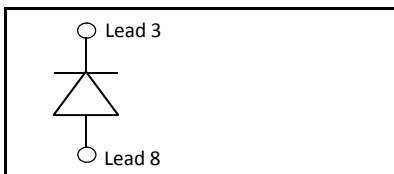
- Pulsed light detection
- High speed photometry
- High speed optical communications
- Fiber optic light monitoring

RoHS

2002/95/EC


Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
T _{STG}	Storage temp	-40	100	°C
T _{OP}	Operating temp	-20	70	°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

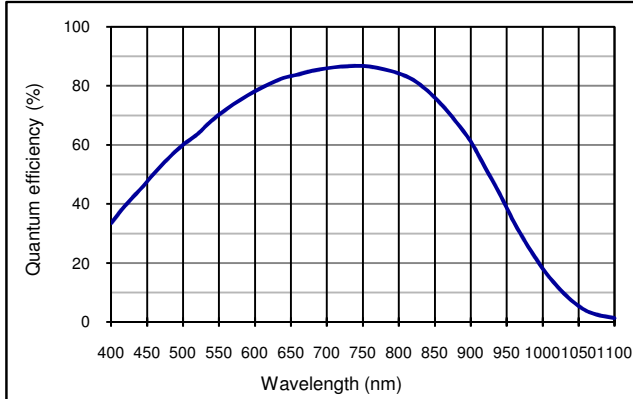
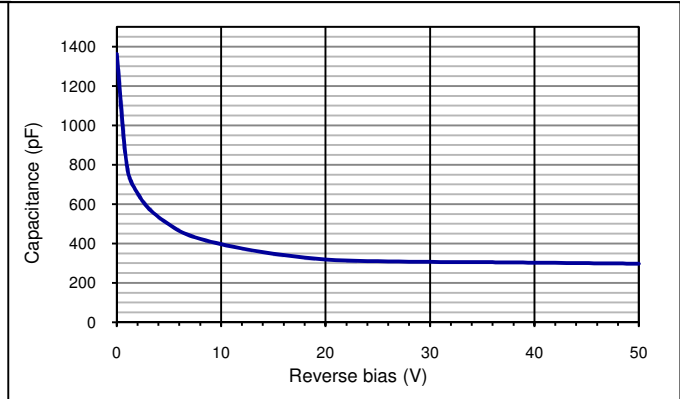
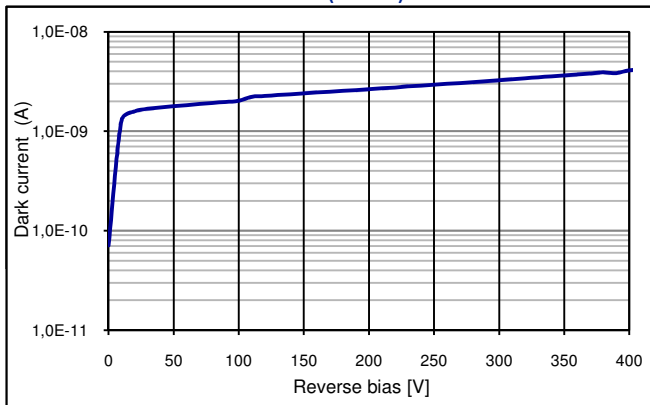
Symbol	Characteristic	Test Condition	Min	Typ	Max	Unit
	Active area		10000 x 10000			µm
	Active area		100			mm ²
I _D	Dark current	V _R = 20 V		2	10	nA
C	Capacitance	V _R = 0 V		1400		pF
		V _R = 20 V		350		pF
	Responsivity	λ = 632 nm		0.4		A/W
		λ = 800 nm		0.52		A/W
t _R	Rise time	V _R = 20 V; λ = 850 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

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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.

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