

### Features

- 2660  $\mu\text{m}$  x 2660  $\mu\text{m}$  active area
- Low dark current
- Fast response time
- High speed epitaxy
- Fully depleted at 3.5 V
- Optimized for blue light

### Description

High speed epitaxy PIN photodiode with 7.1 mm<sup>2</sup> square active area. Metal can type hermetic TO5 package with UV clear window. Other packaging options available upon special request.

### Application

- Pulsed light detection
- High speed photometry
- High speed optical communications
- Laser monitoring

### RoHS

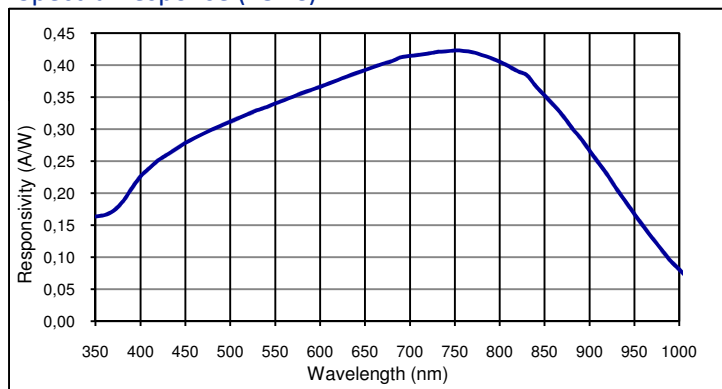
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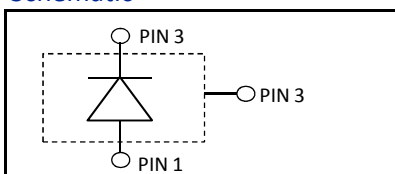
### Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
$T_{STG}$	Storage temp	-55	125	°C
$T_{OP}$	Operating temp	-40	100	°C
$V_{max}$	Max reverse voltage		30	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		2660 x 2660			$\mu\text{m}$
	Active area		7.1			mm <sup>2</sup>
$I_D$	Dark current	$V_R = 0\text{ V}$		0.020	0.1	nA
		$V_R = 3.5\text{ V}$		0.040	0.2	nA
C	Capacitance	$V_R = 0\text{ V}$		120	150	pF
		$V_R = 3.5\text{ V}$		50	65	pF
	Responsivity	$\lambda = 355\text{ nm}$		0.16		A/W
		$\lambda = 405\text{ nm}$		0.23		A/W
$t_R$	Rise time	$V_R = 3.5\text{ V}; \lambda = 405\text{ nm}; R_L = 50\ \Omega$		5		ns
		$V_R = 20\text{ V}; \lambda = 405\text{ nm}; R_L = 50\ \Omega$		4		ns
$V_{BR}$	Breakdown voltage	$I_R = 2\ \mu\text{A}$	30			V
	Shunt resistance	$V_R = 10\text{ mV}$		2500		M $\Omega$
	N.E.P.	$V_R = 3.5\text{ V}; \lambda = 405\text{ nm}$		1.6 E-14		W/ $\sqrt{\text{Hz}}$

#### European, International Sales:

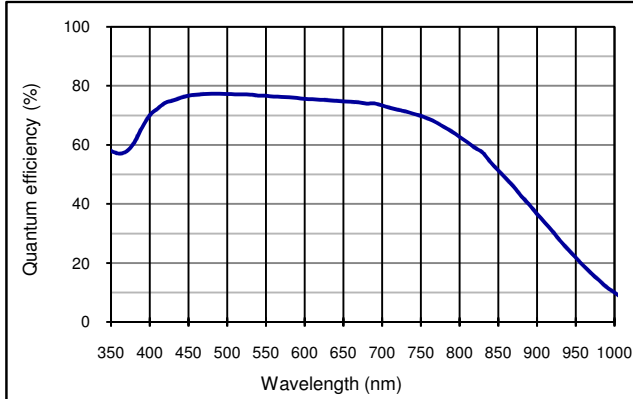
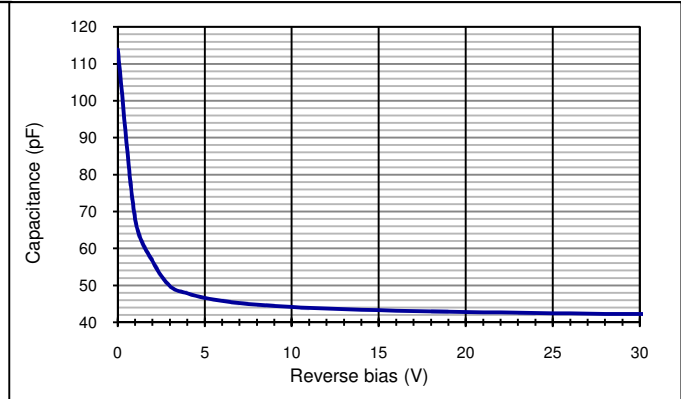
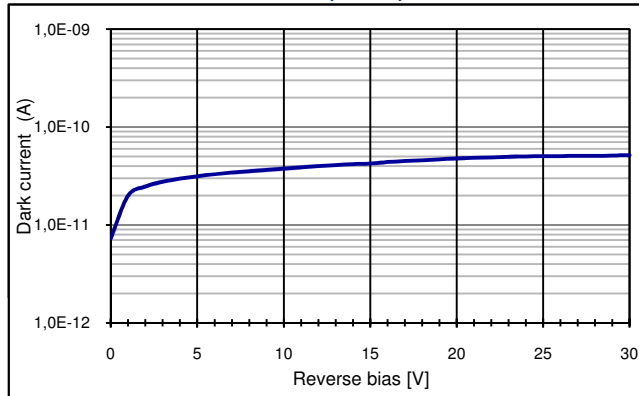
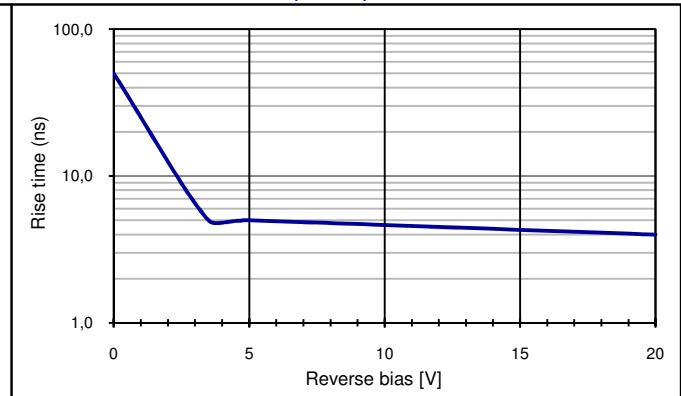


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**Quantum efficiency (23 °C)**

**Capacitance as fct of reverse bias (23 °C)**

**Dark current as fct of bias (23 °C)**

**Rise time as fct of bias (23 °C)**

**Application hints:**

Please refer to document "Instructions for handling and processing"

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