

Features

- 10 mm² PIN detector
- Low dark current
- High shunt resistance
- High sensitivity

Description

Circular active area PIN photodiode with 10 mm² active area. Metal can type hermetic TO5 package with clear glass window.

Application

- Precision photometry
- Bar code readers
- Medical equipment
- Pulsed light sensor

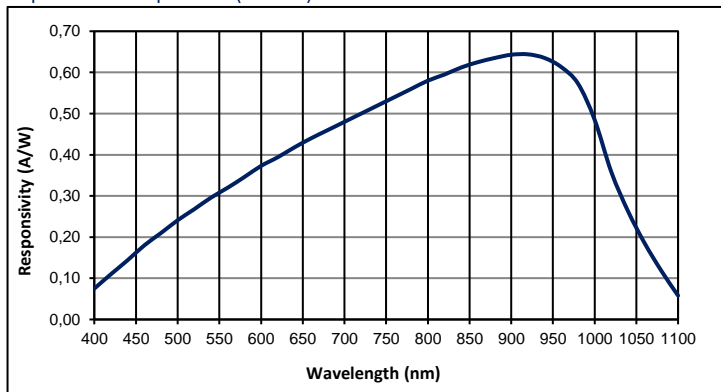
RoHS

2011/65/EU

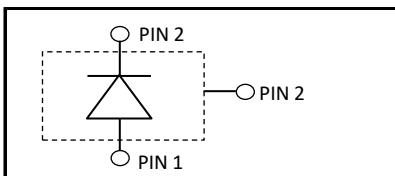
Absolute maximum ratings

| Symbol | Parameter | Min | Max | Unit |
|-------------------|---------------------|-----|-----|------|
| T _{STG} | Storage temp | -55 | 125 | °C |
| T _{OP} | Operating temp | -40 | 100 | °C |
| V _{max} | Max reverse voltage | | 20 | V |
| I _{PEAK} | Peak DC current | | 10 | mA |

Spectral response (23 °C)



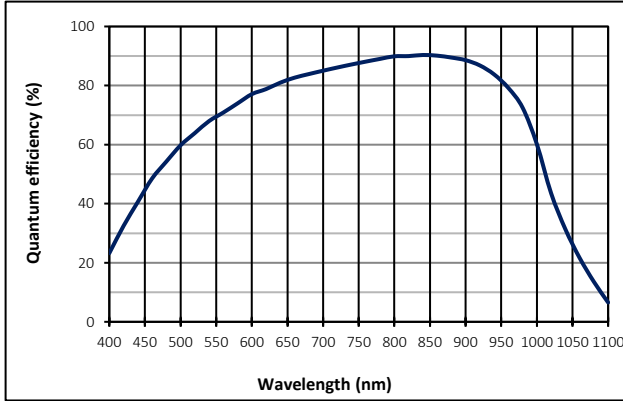
Schematic



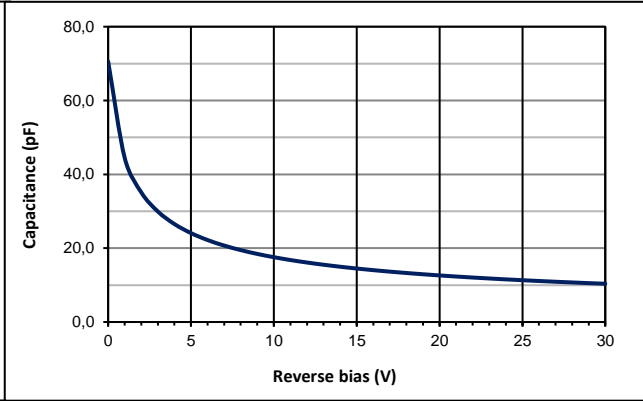
Electro-optical characteristics @ 23 °C

| Symbol | Characteristic | Test Condition | Min | Typ | Max | Unit |
|-----------------|-------------------|----------------------------------------------------------|---------------|----------|-----|-----------------|
| | Active area | | 3570 diameter | | | μm |
| | Active area | | 10.0 | | | mm ² |
| I _D | Dark current | V _R = 10 V | | 0.2 | | nA |
| C | Capacitance | V _R = 0 V | | 100 | | pF |
| | | V _R = 10 V | | 15 | | pF |
| | Responsivity | λ = 632 nm | | 0.4 | | A/W |
| | | λ = 900 nm | | 0.64 | | A/W |
| t _R | Rise time | V _R = 0 V; λ = 850 nm; R _L = 50 Ω | | 2000 | | ns |
| | | V _R = 10 V; λ = 850 nm; R _L = 50 Ω | | 20 | | ns |
| | Shunt Resistance | V _R = 10 mV | | 1500 | | MΩ |
| | N.E.P. | V _R = 10 V; λ = 900 nm | | 1.3 E-14 | | W/√Hz |
| V _{BR} | Breakdown voltage | I _R = 2 μA | 30 | | | V |

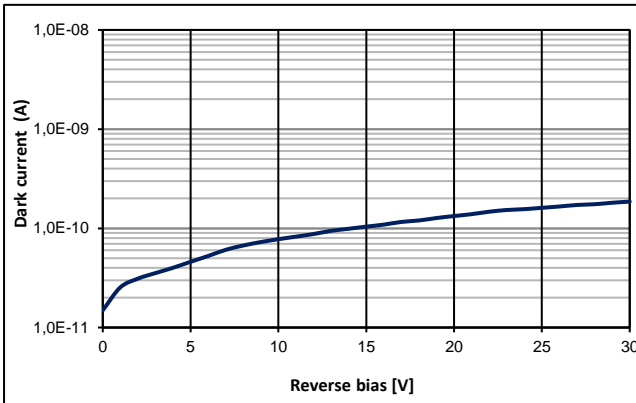
Quantum efficiency (23 °C)



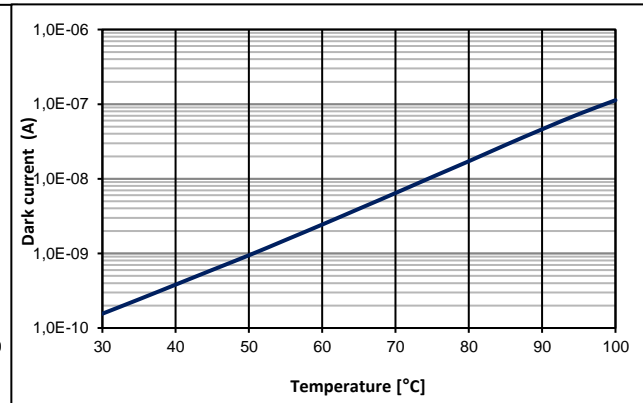
Capacitance as fct of reverse bias (23 °C)



Dark current as fct of bias (23 °C)



Dark current as fct of temperature ($V_R = 10$ V)



Package dimension:

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

Handling:

Please refer to document "Instructions for handling and processing"

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