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## 0.5mm Dia., TO-46 Package, InGaAs Photodiode



InGaAs Photodiodes (FC Receptacle , TO-5, TO-46)

Stock **#62-271** [CONTACT US](#)

⊖ 1 ⊕ £84.<sup>00</sup>

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Volume Pricing	
Qty 1-4	£84.80 each
Qty 5-9	£72.00 each
Qty 10-24	£67.60 each
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ⓘ Prices shown are exclusive of VAT/local taxes

### Product Downloads

#### General

Ball Lens **Type of Optics:**

InGaAs Photodiode **Type:**

10 **Rise/ Fall Time @  $V_R=5V$  (ns):**

TO-46

Package:

## Physical & Mechanical Properties

0.5      **Active Area Diameter (mm):**

## Optical Properties

900 - 1700      **Spectral Response (nm):**

## Electrical

0.8 minimum / 0.9 typical      **Responsivity @ 1310nm (AW):**

0.9 minimum / 0.95 typical      **Responsivity @ 1550nm (AW):**

20 typical      **Capacitance @  $V_R=5V$  (pF):**

$8.42 \times 10^{-15}$       **Noise Equivalent Power NEP ( $W/Hz^{1/2}$ ):**

8      **Maximum Forward Current (mA):**

2      **Maximum Reverse Current (mA):**

15      **Maximum Reverse Voltage (V):**

0.50 typical / 20 maximum      **Dark Current @  $V_R=5V$  (nA):**

## Regulatory Compliance

[View](#)      **Certificate of Conformance:**

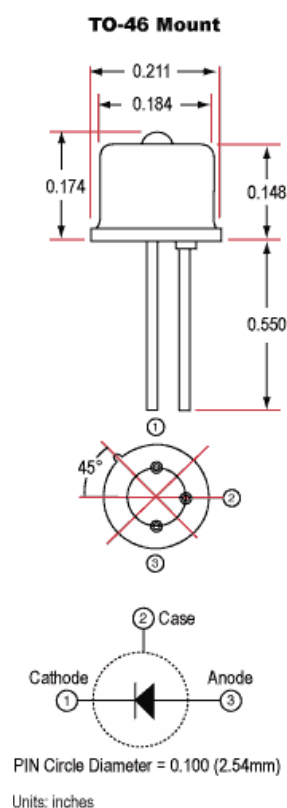
## Product Details

- Response Range From 900nm to 1700nm
- Both Small Area (High Speed) and Large Area
- [Segmented InGaAs Photodiodes](#) Also Available

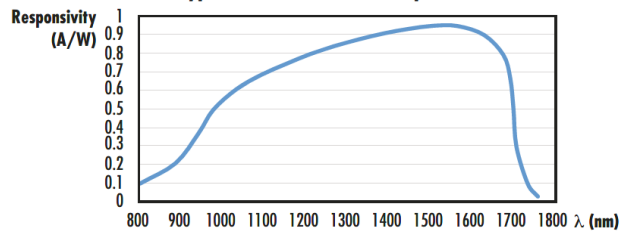
InGaAs Photodiodes feature excellent responsivity from 900nm to 1700nm with active areas ranging from 0.07mm to 3.0mm. Photodiodes with active area sizes less than 1mm provide low capacitance, low dark current, and high responsivity from 1100nm to 1620nm, for high speed datacom and telecom applications. Photodiodes with active area sizes of 1mm and up provide large active areas, low noise, and high shunt resistance enabling high sensitivity for weak signals. InGaAs Photodiodes are isolated in TO-46, TO-18, or TO-5 packages with either a ball lens or double-sided AR coated window, depending on the packaging. These photodiodes are ideal for a multitude of research and OEM applications including IR laser alignment, medical diagnostics, and chemical analysis.

**Note:** To ensure well centered incident light, a [focusing lens](#) or [pinhole](#) is recommended due to inhomogeneity at the edge of the photodiode chip which can cause a decrease in detector responsivity.

## Technical Information



Typical InGaAs Detector Response Curve



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