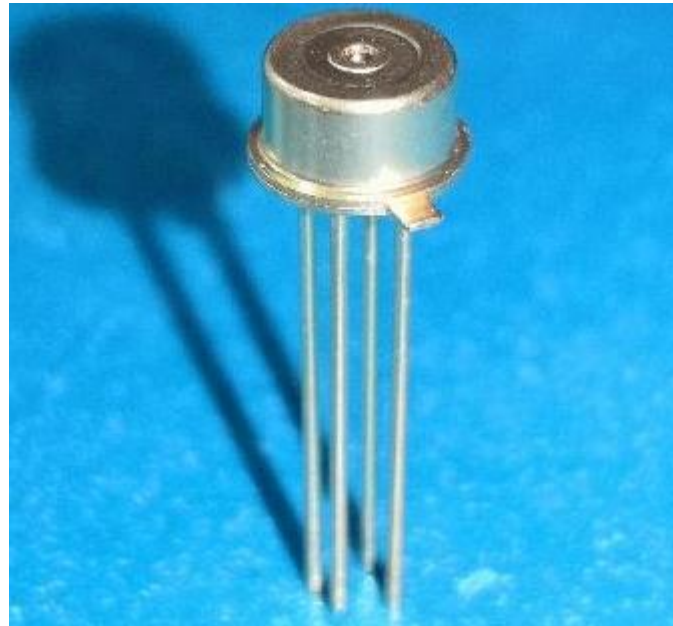




1.0~2.6 μm extended InGaAs photodiode



- **Product Description**

This is a photosensitive component specifically designed for detecting the short-wave infrared band. It overcomes the 1.7 μm response limit of standard InGaAs detectors, extending the detection range to 2.6 μm , thereby covering more critical near-infrared spectral regions

- **Product features**

Positive irradiation structure、 High sensitivity、 Fast response time、 T046 package



- **Part Number**

MP-CPD-B-I-X0.3

- **Application area**

Spectral detection and analysis、 Gas analysis、 Water content analysis

- **Core parameters**

Active Area	Band	Peak Wavelength
Φ0.3mm	1.0-2.6um	2.2um

- **General Parameters**

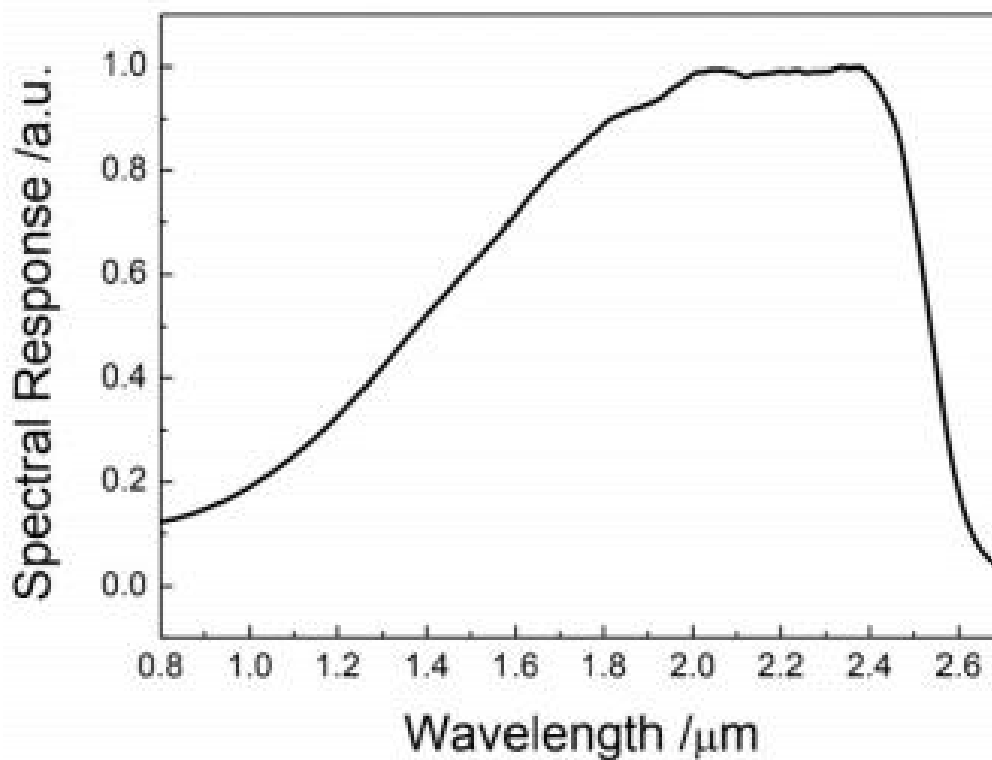
Parameters

Characteristic parameters	Typical values
Active area	Φ 0.3 mm
Scale	unit
Operating temperature	-20~+60 °C
Storage temperature	-55~+70 °C
Band	1.0~2.6 um
Peak wavelength	2.2 um
Peak quantum efficiency	≥70%
Peak response rate	≥1.2 A/W
Device impedance	$2 \times 10^4 \Omega$
Dark current	$5 \times 10^{-7} @ -0.01V$
Equivalent noise power	$4 \times 10^{-13} W/Hz^{1/2}$

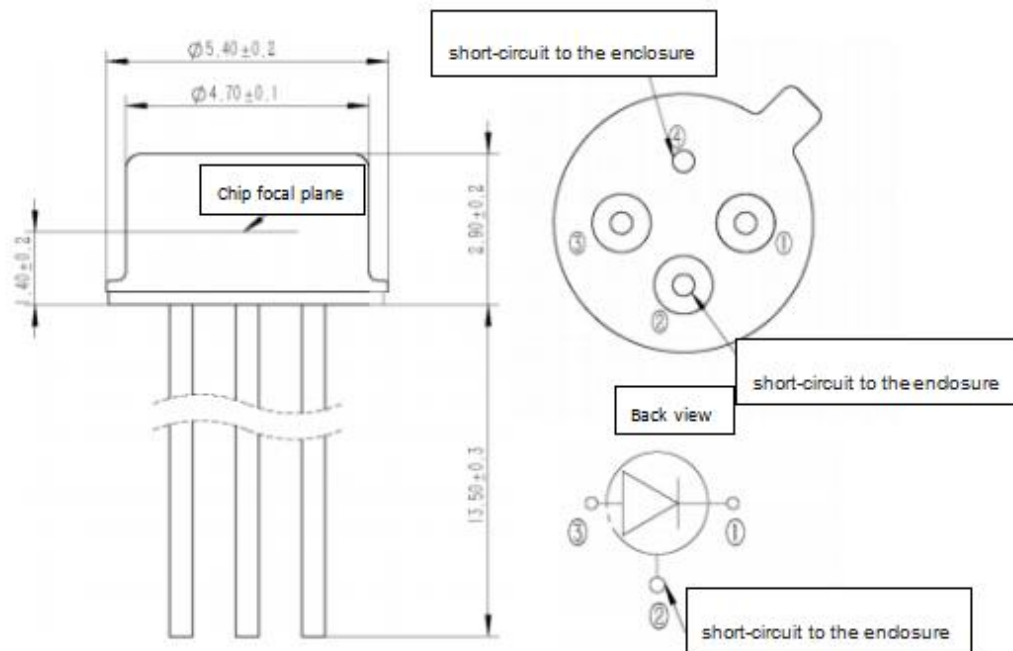


Characteristic parameters	Typical values
Peak detection rate	$7 \times 10^{10} \text{ cm Hz}^{1/2}/\text{W}$
Packaging type	TO-46 package

Typical spectral response curve



Product structure and size



Notes:

- (1) Anti-static protection is required during product use, and operators should wear anti-static wrist straps.
- (2) During storage and transportation, the product should be placed in anti-static foam and stored in an anti-static box.
- (3) Do not use excessive force when plugging and unplugging pins, and do not bend the pins more than 45° along the root to prevent bending from causing cracks in the glass beads.
- (4) The product must be plugged and unplugged after power is turned off.