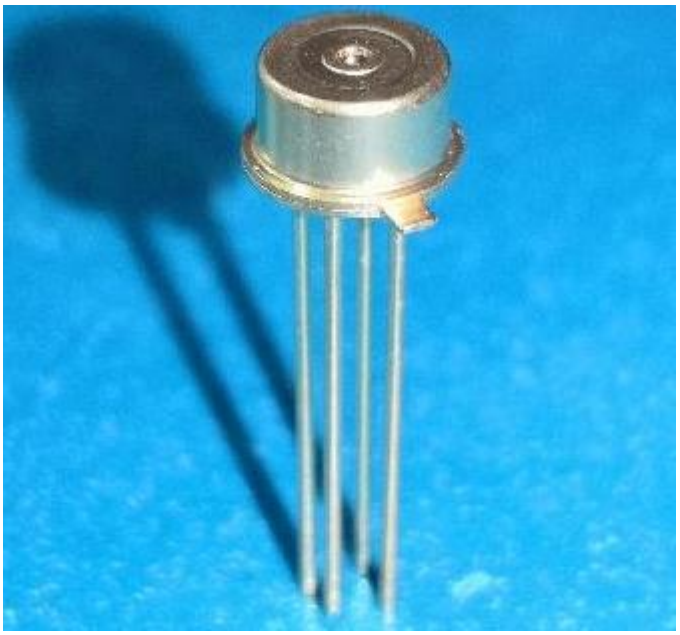
1.0~2.6 um extended InGaAs photodiode



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、 TO46 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

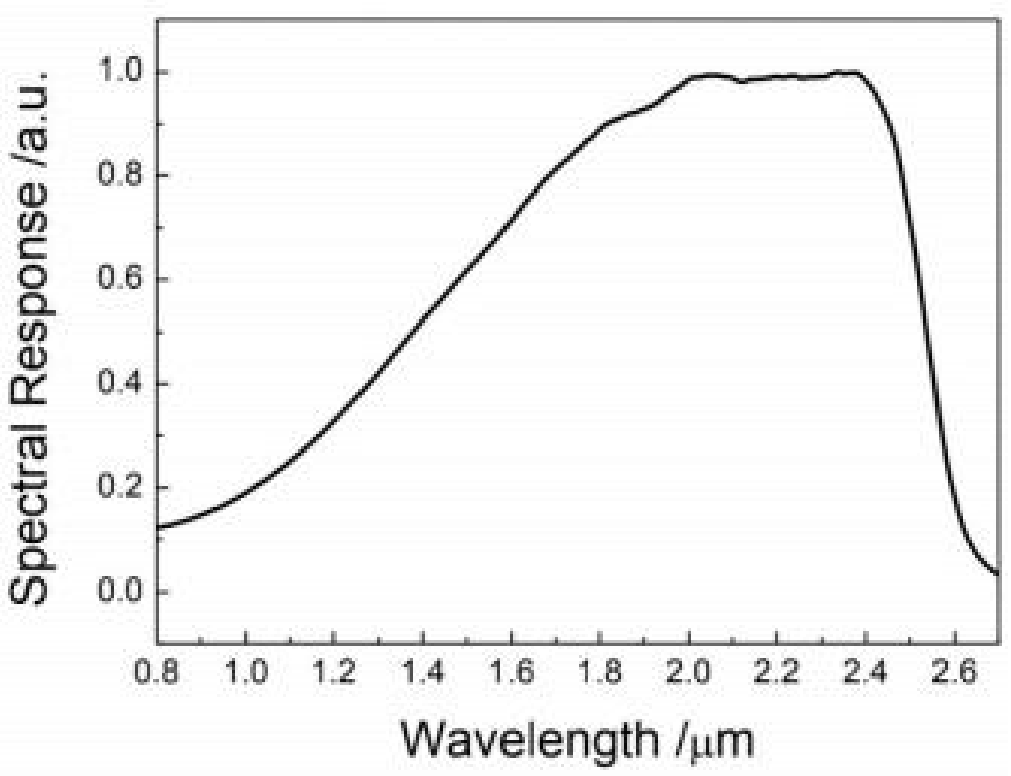
General Parameters

Parameters

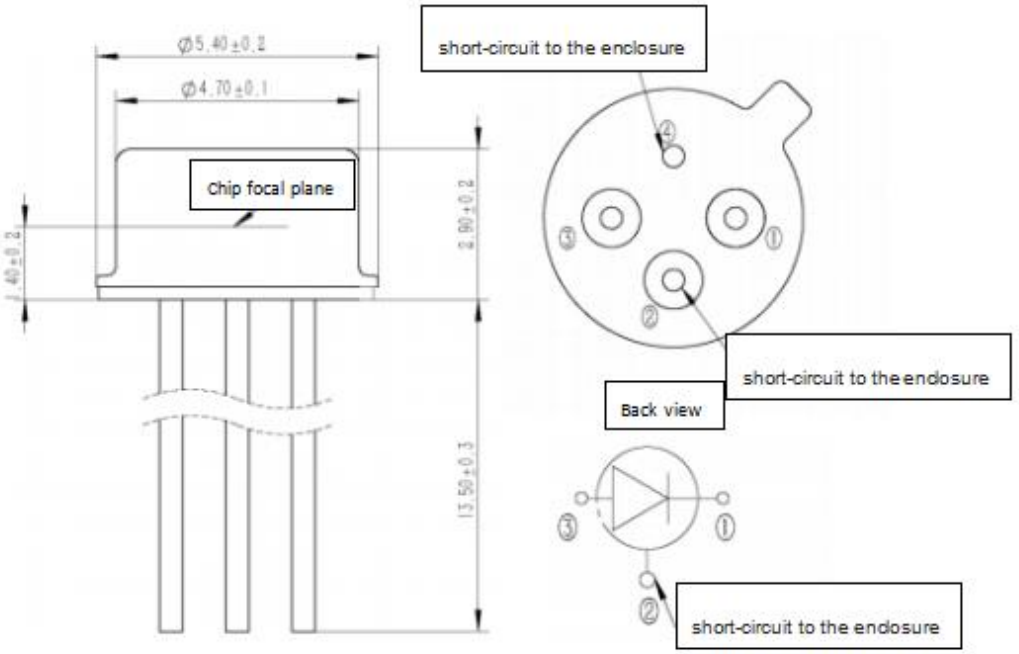
Characteristic parameters	Typical values
Active area	Φ 0.3 mm
Scale	unit
Operating temperature	-20~+60 °C
Storage temperature	-55~+70 °C
Band	1.0~2.6 um

Characteristic parameters	Typical values
Peak wavelength	2.2 um
Peak quantum efficiency	⩾70%
Peak response rate	⩾1.2 A/W
Device impedance	$2\times10^{4}\Omega$
Dark current	5×10^{-7}@-0.01V
Equivalent noise power	4×10^{-13} W/Hz$^{1/2}$
Peak detection rate	7×10^{10} cm Hz$^{1/2}$/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.