

## **SVTA-UV-B Photodetector**





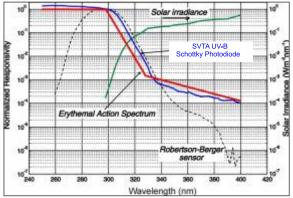
## Description

SVTA-UV-B Schottky detectors are small, robust, solid-state photodiodes that provides a close match to the standard erythemal response. The capability of sunlight to induce erythema (sunburning) is strongly dependent on wavelength. Radiation in the UV-B band (280-320 nm) is primarily responsible. These sensors provide 10<sup>4</sup> rejection of all visible peak and infrared wavelengths longer than 400 nm. The photovoltaic efficiency of the UV-B sensor is more than 10% of the fundamental quantum efficiency limit, orders of magnitude higher than standard phosphor conversion techniques.

The standard package is a TO-46 header with cap. Other types of packaging are available including ones with built-in amplification.

## **Specifications**

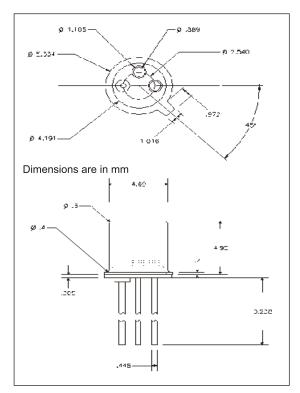
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Active area	0.5 mm²
Responsivity @ 300 nm	0.03 A/W typ.
Rejection @ >400 nm	>10 <sup>4</sup>
Shunt resistance(-10 mV)	
Series resistance	<1 kΩ
Package type	TO-46



Spectral responsivity graph of a 26% AlGaN detector shows a close match to the erythemal response

## **Typical Applications:**

- Erythemal Response Matching
- Solar Irradiance Measurement
- Climatological And Biological Studies
- UV Curing and Drying
- Combustion Monitoring
- Spectroscopy
- Sterilization Control
- Arc Detection



TO-46 Standard package with UV-glass windows cap