

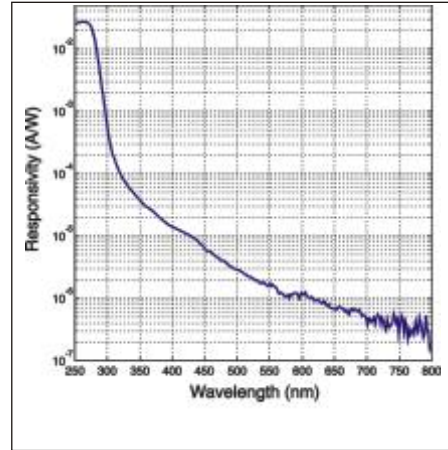


# SVTA-UV-C Photodetector



## Typical Applications:

- Combustion Monitoring
- Industrial Process Monitoring
- Missile or Artillery Fire Detection



Spectral responsivity graph above illustrates the long wavelength rejection of the SVTA-UV-C responding photodiode

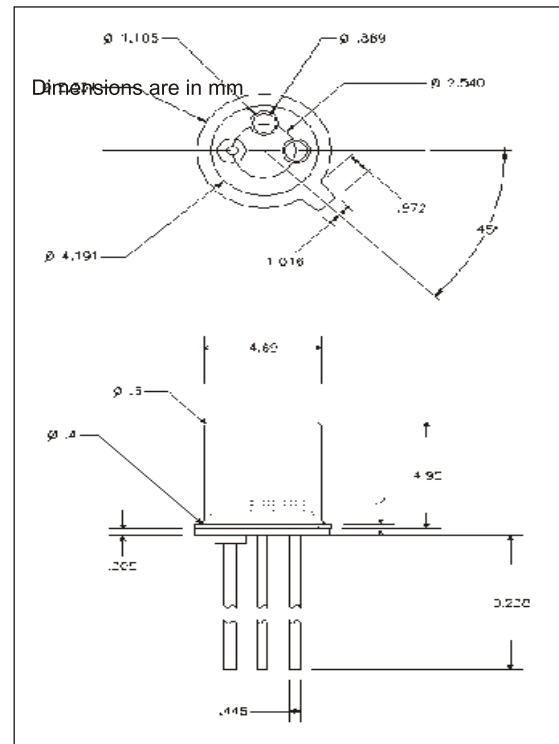
## Description

SVTA-UV-C Schottky detectors are small, robust, solid-state solar-blind photodiodes designed to respond primarily to ultra-violet radiation in the UV-C (<280 nm) spectral band. Responsivity falls to  $10^{-3}$  of the peak value by 370 nm and continues to fall to  $10^{-5}$  peak value by 500 nm. Terrestrial solar light in the UV-C range is absorbed in the atmosphere primarily by ozone and does not reach the earth's surface. UV-C radiation is produced at the earth's surface by combustion processes and also by certain industrial processes. Detection of UV-C radiation produced by these processes without background interference from solar radiation can be a valuable tool for identification and control.

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

## Specifications

Active area.....0.5 mm<sup>2</sup>  
 Responsivity @ 300 nm .....0.02 A/W typ.  
 Rejection @ >400 nm.....>10<sup>4</sup>  
 Shunt resistance(-10 mV).....>1 GΩ  
 Series resistance.....<1 kΩ  
 Package type.....TO-46



TO-46 Standard package with UV-glass windows cap