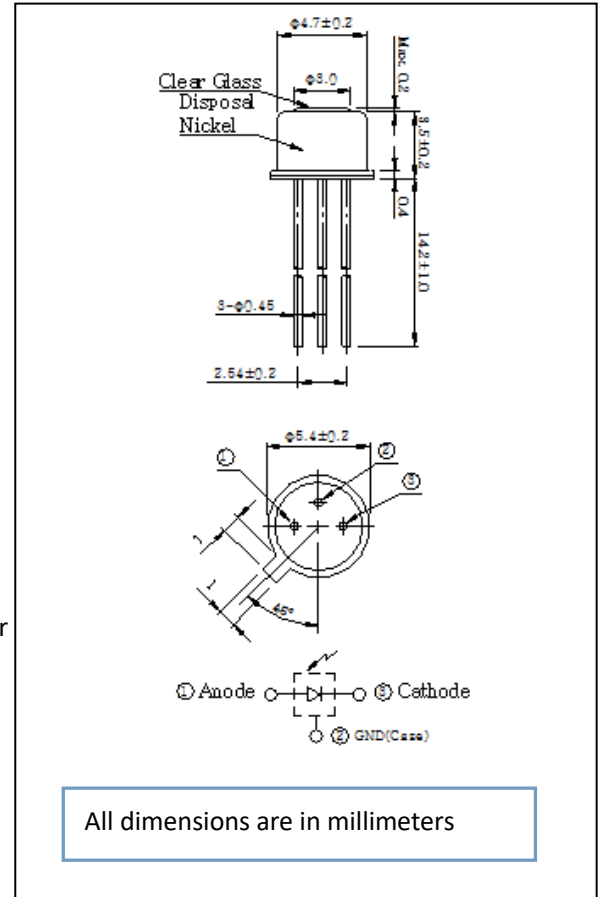
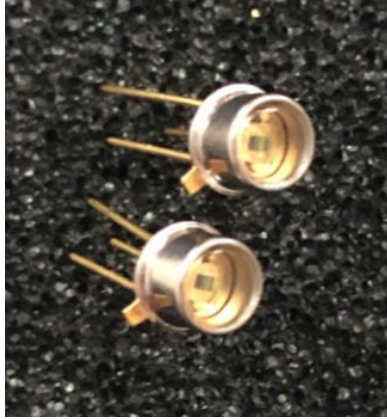


## SiC-based Ultraviolet Detector



### Description

SiC0.25TF-3 is broad band SiC based UV photodiode, it is Optimized for Ultra-violet , UVA, UVB and UVC wavelength. It can be easily selected With integral filters.

### Features

- \* High reliability in demanding environments
- \* Good visible blindness

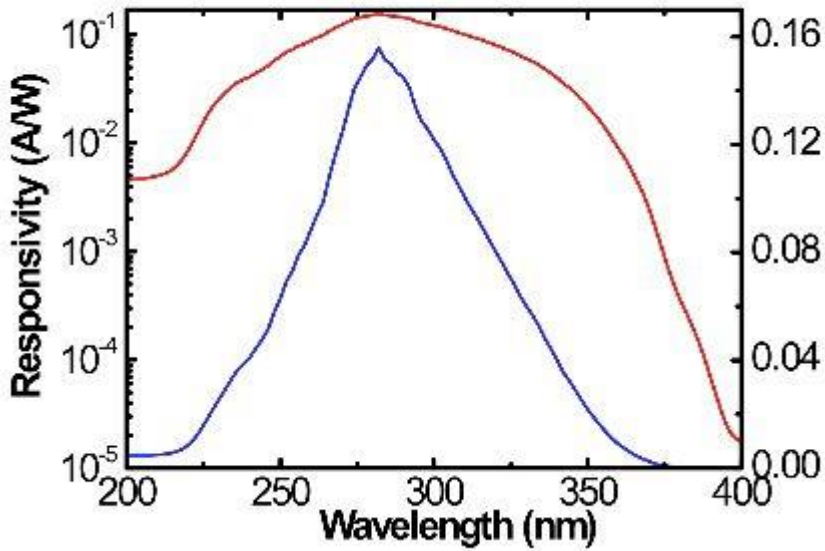
### Applications

- \* Sunlight exposure meter
- \* Water purification facilities
- \* UV power meter

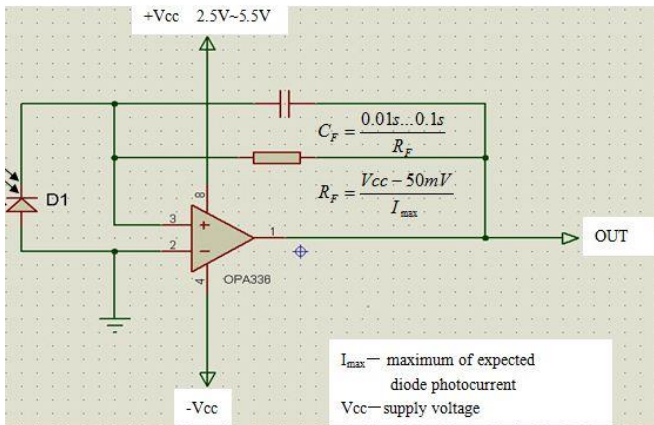
### Specifications:

| Parameter                               | Symbol      | Min.            | Typ.  | Max. | Unit |
|-----------------------------------------|-------------|-----------------|-------|------|------|
| Operation temperature range             | Topt        | -25             |       | +120 | °C   |
| Storage temperature range               | Tsto        | -40             |       | +120 | °C   |
| Soldering temperature (3s)              | Tsol        |                 | 260   |      | °C   |
| Reverse voltage                         | Vr          |                 | -20   |      | V    |
| Chip size (active area)                 | A           |                 | Φ 500 |      | mm   |
| Dark current (Vr=-5V)                   | Id          |                 | 0.09  | 0.1  | nA   |
| Temperature coefficient                 | Tc          |                 | -0.1  |      | %/°C |
| Capacitance (Vr=0V, f=100KHz)           | Cj          |                 | 31    |      | pF   |
| Wavelength of peak responsivity         | $\lambda_p$ |                 | 280   |      | nm   |
| Peak responsivity (@280nm)              | Rmax        |                 | 0.15  |      | A/W  |
| Spectral response range (R=0.1*Rmax)    | SR          | 215             |       | 360  | nm   |
| UV-Visible rejection ratio(Rmax/R400nm) | -           | 10 <sup>4</sup> |       |      | -    |

## Spectral response



## Typical application circuit



Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject change without notice