Model

**GT-UVC-L** 

## **UVC** photodiode

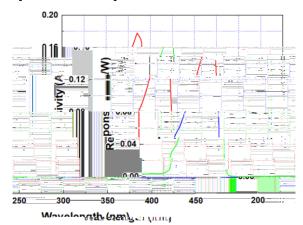
#### **General Features:**

- Selective response to UVC band
- Photovoltaic mode operation
- TO-46 metal housing
- Good solar blindness
- High responsivity and low dark current

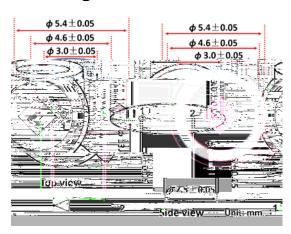
**Applications:** UV sterilizing lamp monitoring, UV radiation dose measurement, flame detection **Specifications:** 

| Parameters  | Symbol           | Value   | Unit |
|---|------------------|---------|------|
| Maximum ratings   |                  |         |      |
| Operation temperature range   | $T_{opt}$        | -25-85  | °C   |
| Storage temperature range   | T <sub>sto</sub> | -40-80  | °C   |
| Soldering temperature (3 s)   | T <sub>sol</sub> | 260     | °C   |
| Reverse voltage   | $V_{r-max}$      | -10     | V    |
| General characteristics (25 °C)                                     |                  |         |      |
| Chip size   | А                | 1       | mm²  |
| Dark current (V <sub>r</sub> = -1 V)                                | I <sub>d</sub>   | <1      | nA   |
| Temperature coefficient (@265 nm)                                   | Tc               | 0.05    | %/°C |
| Capacitance (at 0 V and 1 MHz)                                      | Cp               | 18      | pF   |
| Spectral response characteristics (25 °C)                           |                  |         |      |
| Wavelength of peak responsivity                                     | р                | 285     | nm   |
| Peak responsivity (at 285 nm)                                       | R <sub>max</sub> | 0.178   | A/W  |
| Spectral response range (R=0.1×R <sub>max</sub> )                   | -                | 225-290 | nm   |
| UV-visible rejection ratio (R <sub>max</sub> /R <sub>400 nm</sub> ) | -                | >104    | -    |

#### **Spectral response**



### **Package dimensions**

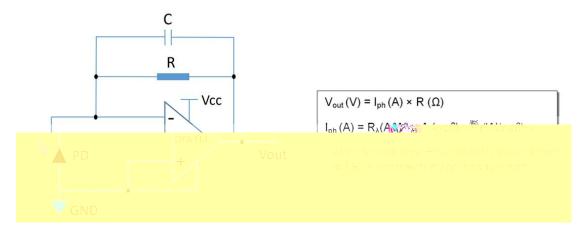






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## **Application circuit:**



### **Evaluation circuit board:**

Α

