



GaN-based UV photodiode

Model: GT-ABC-L

General Features:

- Broad band UVA+UVB+UVC photodiode
- Photovoltaic mode operation
- TO-46 metal housing
- Good visible blindness
- High responsivity and low dark current

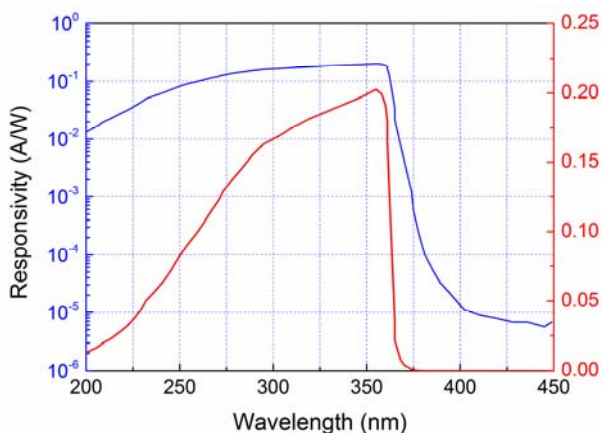


Applications: UV index monitoring, UV radiation dose measurement, flame detection

Specifications:

| Parameters | Symbol | Value | Unit |
|--|-------------|---------|-----------------|
| Maximum ratings | | | |
| Operation temperature range | T_{opt} | -25-85 | °C |
| Storage temperature range | T_{sto} | -40-85 | °C |
| Soldering temperature (3 s) | T_{sol} | 260 | °C |
| Reverse voltage | V_{r-max} | -10 | V |
| General characteristics (25 °C) | | | |
| Chip size | A | 1 | mm ² |
| Dark current ($V_r = -1$ V) | I_d | <1 | nA |
| Temperature coefficient | T_c | -0.02 | %/°C |
| Capacitance (at 0 V and 1 MHz) | C_p | 18 | pF |
| Spectral response characteristics (25 °C) | | | |
| Wavelength of peak responsivity | λ_p | 355 | nm |
| Peak responsivity (at 355 nm) | R_{max} | 0.20 | A/W |
| Spectral response range ($R=0.1 \times R_{max}$) | - | 210-370 | nm |
| UV-visible rejection ratio ($R_{max}/R_{400\text{ nm}}$) | - | $>10^4$ | - |

Spectral response



Package dimensions

