

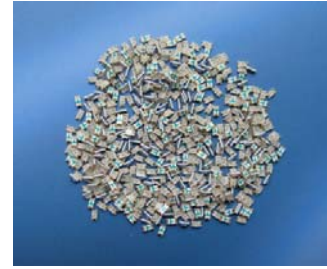


# GaN-based UV photodiode

Model: GS-AB-0603E

## General Features:

- UVA+UVB photodiode
- Photovoltaic mode operation
- SMD 0603 package
- Good visible blindness
- High responsivity and low dark current

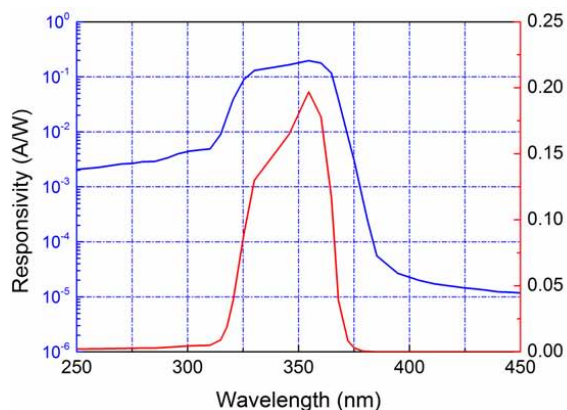


**Applications:** UV index monitoring, UV radiation dose measurement, flame detection

## Specifications:

Parameters	Symbol	Value	Unit
<b>Maximum ratings</b>			
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
<b>General characteristics (25 °C)</b>			
Chip size	A	0.09	mm <sup>2</sup>
Dark current ( $V_r = -1$ V)	$I_d$	<1	nA
Temperature coefficient	$T_c$	-0.02	%/°C
Capacitance (at 0 V and 1 MHz)	$C_p$	2.3	pF
<b>Spectral response characteristics (25 °C)</b>			
Wavelength of peak responsivity	$\lambda_p$	355	nm
Peak responsivity (at 355 nm)	$R_{max}$	0.20	A/W
Spectral response range ( $R=0.1 \times R_{max}$ )	-	300-370	nm
UV-visible rejection ratio ( $R_{max}/R_{400\text{ nm}}$ )	-	$>10^4$	-

## Spectral response



## Package dimensions

