

UV-B Sensor GUVB-T11GD

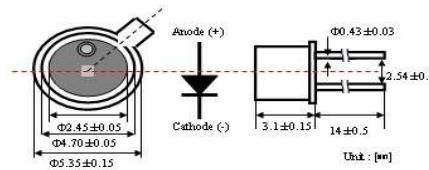


- Features**
- Aluminium Gallium Nitride Based Material
 - Schottky-type Photodiode
 - Photovoltaic Mode Operation
 - Good Visible Blindness
 - High Responsivity & Low Dark Current



- Applications**
- UV-B Lamp Monitoring
 - UV Index Monitoring

Outline Diagrams and Dimensions



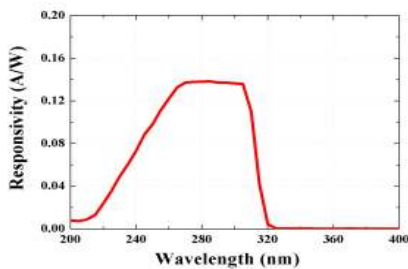
Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T _{st}	-40	90	°C	
Operating Temperature	T _{op}	-30	85	°C	
Reverse Voltage	V _{r, max.}		3	V	
Forward Current	I _{f, max.}		1	mA	
Soldering Temperature	T _{sol}		260	°C	within 10 sec.

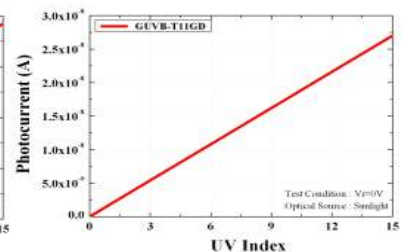
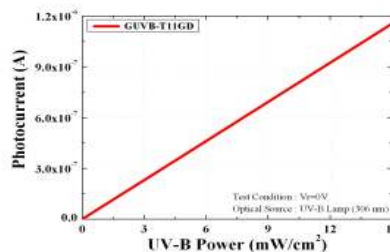
Characteristics (at 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I _d			1	nA	V _r = 0.1 V
Photo Current	I _{ph}		77		nA	UVB Lamp, 1mW/cm ²
			1.7		nA	1 UVI
Temperature Coefficient	I _{tc}		0.1		%/°C	UVB Lamp
Responsivity	R		0.13		A/W	λ = 300 nm, V _r = 0 V
Spectral Detection Range	λ	220		320	nm	10% of R

Responsivity Curve



Photocurrent along UV Power



Caution