

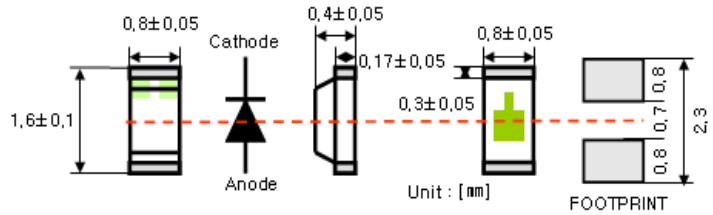
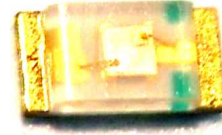
UVI Monitoring Sensor

GUVB-S21SD



Features

- Very Thin(0.4mm) & Small(1.6×0.8mm²)
- Aluminium Gallium Nitride Based Material
- Schottky-type Photodiode
- Photovoltaic Mode Operation
- Good Visible Blindness
- High Responsivity & Low Dark Current



Applications

- UV Index Monitoring for portable equipment

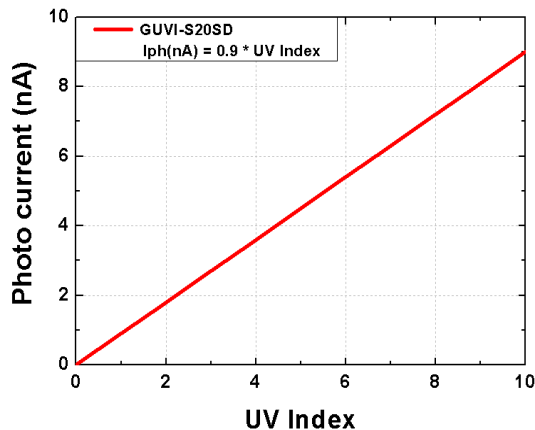
Absolute Maximum Ratings

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}		0.9		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	230		320	nm	
Breakdown Voltage	V _{BR}		5			I _r = 1 μA

UVI - I_{ph} Curve



Responsivity Curve

