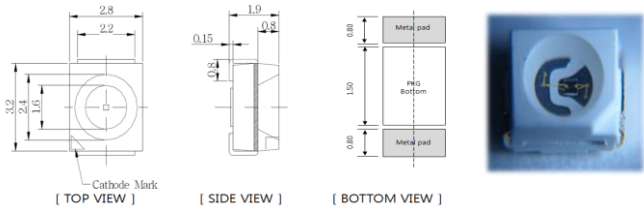


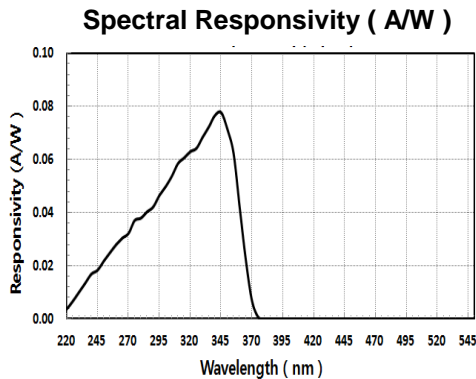
**SUVISEN 375**
**UVA SENSOR**

SUVA-CS-S3528-A (A-Z)



## Product Brief

### Description



### Features and Benefits

- GaN Based Material
- Active Area A = 0.121 mm<sup>2</sup>
- SMD3528 PKG / Silicon Molding type
- High UV sensitivity & Low Dark Current

### Key Applications

- NUV LED Monitor
- UV Index Monitor

### Maximum Ratings

Parameter	Symbol	Value	Unit	Remark
Operating Temperature	T <sub>opt</sub>	- 40 to + 85	°C	
Storage Temperature	T <sub>stot</sub>	- 40 to + 85	°C	
Soldering Temperature	T <sub>sol</sub>	260	°C	Within 10sec
Reverse Voltage	V <sub>R</sub>	3	V	

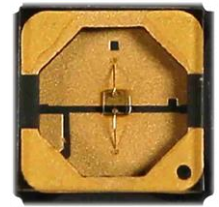
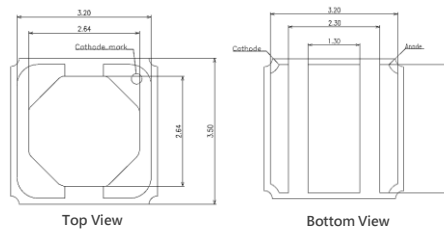
### General Characteristics ( @ 25°C )

Parameter	Symbol	Value ( typical )	Unit	Test Conditions
Active Area	A	0.121	mm <sup>2</sup>	400 x 400 μm <sup>2</sup>
Responsivity	R	0.08	A/W	λ=345nm, Vr=0V
Dark Current	I <sub>D</sub>	< 1	nA	Very = 1V
Photo Current	I <sub>ph</sub>	~ 34	nA	UVA Lamp, ~1mW/cm <sup>2</sup>
Temperature Coefficient	I <sub>tc</sub>	< 0.3	%/°C	UVA Lamp
Spectral Detection Range	λ	200 ~ 375	nm	Cut off : 10% of R

\* Wrist bands or Anti-electrostatic gloves : If possible, utilize wrist bands and Anti-electrostatic gloves. This precautionary measure is to ward off ESD damage.

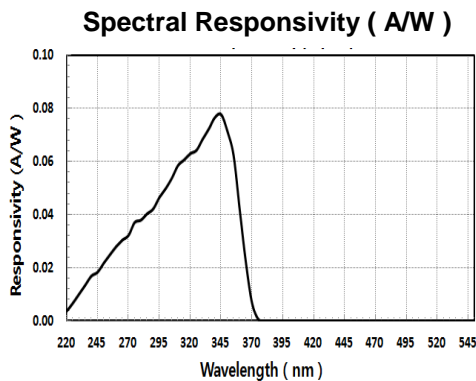
**SUVISEN 375**
**UVA SENSOR**

SUVA-CS-CA3535-A (A-Z)



## Product Brief

### Description



### Features and Benefits

- GaN Based Material
- Active Area A = 0.121 mm<sup>2</sup>
- SMD3535 PKG / Quartz cover type
- High UV sensitivity & Low Dark Current

### Key Applications

- UVA, B, C source Monitor
- UV LED Monitor / UV Index Monitor

### Maximum Ratings

Parameter	Symbol	Value	Unit	Remark
Operating Temperature	T <sub>opt</sub>	- 40 to + 85	°C	
Storage Temperature	T <sub>sot</sub>	- 40 to + 85	°C	
Soldering Temperature	T <sub>sol</sub>	260	°C	Within 10sec
Reverse Voltage	V <sub>R</sub>	3	V	

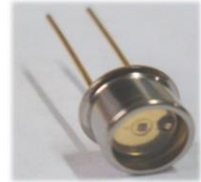
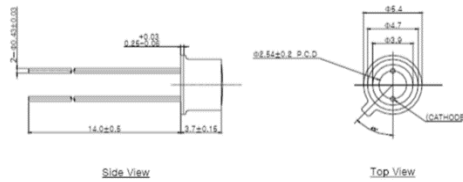
### General Characteristics ( @ 25°C )

Parameter	Symbol	Value ( typical )	Unit	Test Conditions
Active Area	A	0.121	mm <sup>2</sup>	400 x 400 μm <sup>2</sup>
Responsivity	R	0.11	A/W	λ=345nm, Vr=0V
Dark Current	I <sub>D</sub>	< 1	nA	Very = 1V
Photo Current	I <sub>ph</sub>	~ 43	nA	UVA Lamp, ~1mW/cm <sup>2</sup>
Temperature Coefficient	I <sub>tc</sub>	< 0.3	%/°C	UVA Lamp
Spectral Detection Range	λ	200 ~ 375	nm	Cut off : 10% of R

\* Wrist bands or Anti-electrostatic gloves : If possible, utilize wrist bands and Anti-electrostatic gloves. This precautionary measure is to ward off ESD damage.

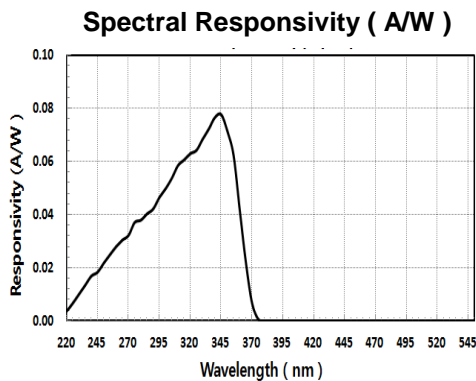
**SUVISEN 375**
**UVA SENSOR**

SUVA-CS-T18-A (A-Z)



## Product Brief

### Description



### Features and Benefits

- GaN Based Material
- Active Area A = 0.121 mm<sup>2</sup>
- TOPKG / BSG type
- High UV sensitivity & Low Dark Current

### Key Applications

- UVA, B, C source Monitor
- UV LED Monitor / UV Index Monitor

### Maximum Ratings

Parameter	Symbol	Value	Unit	Remark
Operating Temperature	T <sub>opt</sub>	- 40 to + 85	°C	
Storage Temperature	T <sub>st</sub>	- 40 to + 85	°C	
Soldering Temperature	T <sub>sol</sub>	260	°C	Within 10sec
Reverse Voltage	V <sub>R</sub>	3	V	

### General Characteristics ( @ 25°C )

Parameter	Symbol	Value ( typical )	Unit	Test Conditions
Active Area	A	0.121	mm <sup>2</sup>	400 x 400 μm <sup>2</sup>
Responsivity	R	0.11	A/W	λ=345nm, Vr=0V
Dark Current	I <sub>D</sub>	< 1	nA	Very = 1V
Photo Current	I <sub>ph</sub>	~ 43	nA	UVA Lamp, ~1mW/cm <sup>2</sup>
Temperature Coefficient	I <sub>tc</sub>	< 0.3	%/°C	UVA Lamp
Spectral Detection Range	λ	200 ~ 375	nm	Cut off : 10% of R

\* Wrist bands or Anti-electrostatic gloves : If possible, utilize wrist bands and Anti-electrostatic gloves. This precautionary measure is to ward off ESD damage.