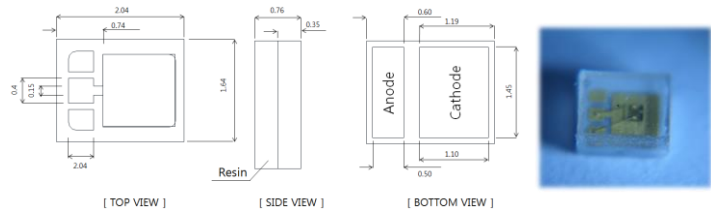


SUVISEN 320

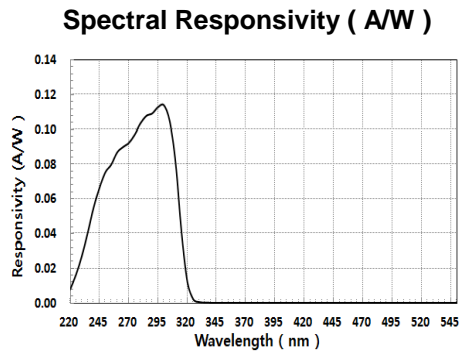
UVB SENSOR

SUVB-CS-S2016-A (A-Z)



Product Brief

Description



Features and Benefits

- AlGaN Based Material
- Active Area A = 0.121 mm²
- SMD2016 PKG / Silicon Molding type
- High UV sensitivity & Low Dark Current

Key Applications

- UV Index Monitor

Maximum Ratings

Parameter	Symbol	Value	Unit	Remark
Operating Temperature	T _{opt}	- 40 to + 85	°C	
Storage Temperature	T _{sot}	- 40 to + 85	°C	
Soldering Temperature	T _{sol}	260	°C	Within 10sec
Reverse Voltage	V _R	3	V	

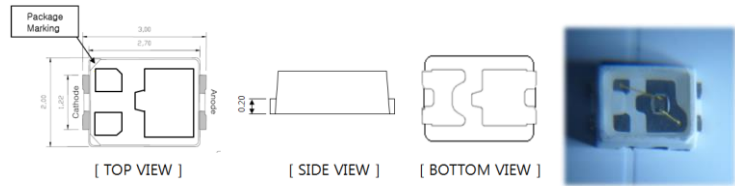
General Characteristics (@ 25°C)

Parameter	Symbol	Value (typical)	Unit	Test Conditions
Active Area	A	0.121	mm ²	400 x 400 μm ²
Responsivity	R	0.11	A/W	λ=305nm, Vr=0V
Dark Current	I _D	< 1	nA	Vr = 1V
Photo Current	I _{ph}	~ 110	nA	UVB Lamp, ~1mW/cm ²
		~ 1.2	nA	1UVI
Temperature Coefficient	I _{tc}	< 0.3	%/°C	UVB Lamp
Spectral Detection Range	λ	225 ~ 325	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.

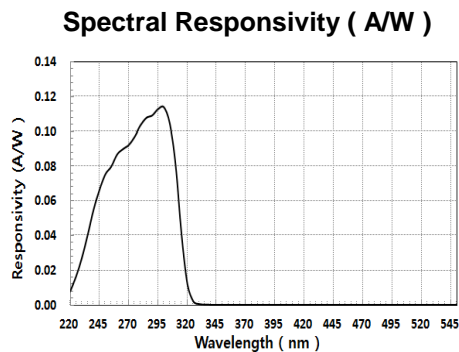
SUVISEN 320
UVB SENSOR

SUVB-CS-S3020-A (A-Z)



Product Brief

Description



Features and Benefits

- AlGaN Based Material
- Active Area A = 0.121 mm²
- SMD3020 PKG / Silicon Molding type
- High UV sensitivity & Low Dark Current

Key Applications

- UV Index Monitor

Maximum Ratings

Parameter	Symbol	Value	Unit	Remark
Operating Temperature	T _{opt}	- 40 to + 85	°C	
Storage Temperature	T _{sot}	- 40 to + 85	°C	
Soldering Temperature	T _{sol}	260	°C	Within 10sec
Reverse Voltage	V _R	3	V	

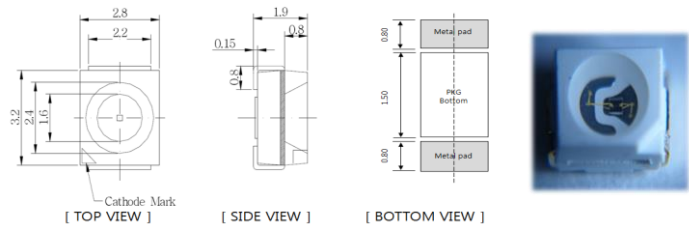
General Characteristics (@ 25°C)

Parameter	Symbol	Value (typical)	Unit	Test Conditions
Active Area	A	0.121	mm ²	400 x 400 μm ²
Responsivity	R	0.11	A/W	λ=305nm, Vr=0V
Dark Current	I _D	< 1	nA	Vr = 1V
Photo Current	I _{ph}	~ 110	nA	UVB Lamp, ~1mW/cm ²
		~ 1.2	nA	1UVI
Temperature Coefficient	I _{tc}	< 0.3	%/°C	UVB Lamp
Spectral Detection Range	λ	225 ~ 325	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.

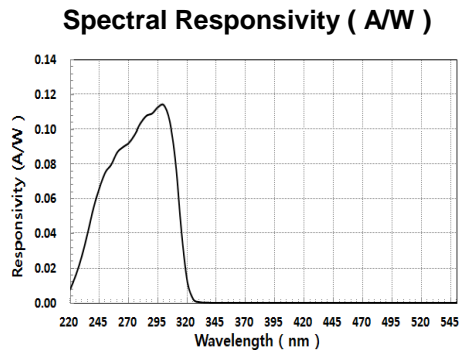
SUVISEN 320
UVB SENSOR

SUVB-CS-S3528-A (A-Z)



Product Brief

Description



Features and Benefits

- AlGaN Based Material
- Active Area A = 0.121 mm²
- SMD3528 PKG / Silicon Molding type
- High UV sensitivity & Low Dark Current

Key Applications

- UV Index Monitor

Maximum Ratings

Parameter	Symbol	Value	Unit	Remark
Operating Temperature	T _{opt}	- 40 to + 85	°C	
Storage Temperature	T _{sot}	- 40 to + 85	°C	
Soldering Temperature	T _{sol}	260	°C	Within 10sec
Reverse Voltage	V _R	3	V	

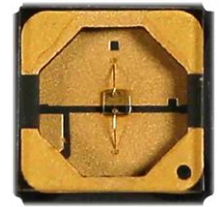
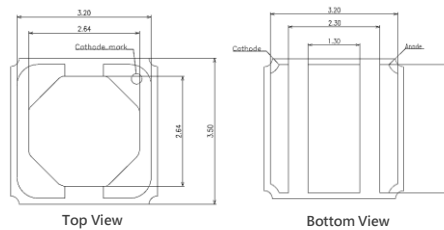
General Characteristics (@ 25°C)

Parameter	Symbol	Value (typical)	Unit	Test Conditions
Active Area	A	0.121	mm ²	400 x 400 μm ²
Responsivity	R	0.11	A/W	λ=305nm, Vr=0V
Dark Current	I _D	< 1	nA	Vr = 1V
Photo Current	I _{ph}	~ 110	nA	UVB Lamp, ~1mW/cm ²
		~ 1.2	nA	1UVI
Temperature Coefficient	I _{tc}	< 0.3	%/°C	UVB Lamp
Spectral Detection Range	λ	225 ~ 325	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.

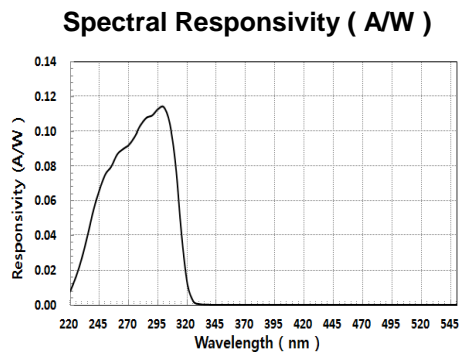
SUVISEN 320
UVB SENSOR

SUVB-CS-CA3535-A (A-Z)



Product Brief

Description



Features and Benefits

- AlGaN Based Material
- Active Area A = 0.121 mm²
- SMD3535 PKG / Quartz cover type
- High UV sensitivity & Low Dark Current

Key Applications

- UVB, C source Monitor
- UV LED Monitor / UV Index Monitor

Maximum Ratings

Parameter	Symbol	Value	Unit	Remark
Operating Temperature	T _{opt}	- 40 to + 85	°C	
Storage Temperature	T _{sot}	- 40 to + 85	°C	
Soldering Temperature	T _{sol}	260	°C	Within 10sec
Reverse Voltage	V _R	3	V	

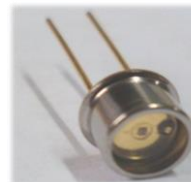
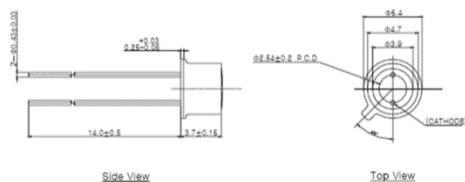
General Characteristics (@ 25°C)

Parameter	Symbol	Value (typical)	Unit	Test Conditions
Active Area	A	0.121	mm ²	400 x 400 μm ²
Responsivity	R	0.15	A/W	λ=305nm, Vr=0V
Dark Current	I _D	< 1	nA	Vr = 1V
Photo Current	I _{ph}	~ 130	nA	UVB Lamp, ~1mW/cm ²
		~ 1.5	nA	1UVI
Temperature Coefficient	I _{tc}	< 0.3	%/°C	UVB Lamp
Spectral Detection Range	λ	200 ~ 325	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.

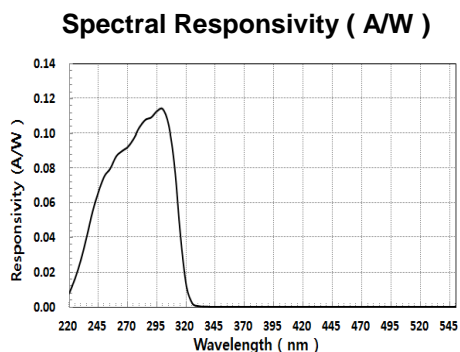
SUVISEN 320
UVB SENSOR

SUVB-CS-T18-A (A-Z)



Product Brief

Description



Features and Benefits

- AlGaN Based Material
- Active Area A = 0.121 mm²
- TOPKG / BSG type
- High UV sensitivity & Low Dark Current

Key Applications

- UVB, C source Monitor
- UV LED Monitor / UV Index Monitor

Maximum Ratings

Parameter	Symbol	Value	Unit	Remark
Operating Temperature	T _{opt}	- 40 to + 85	°C	
Storage Temperature	T _{sot}	- 40 to + 85	°C	
Soldering Temperature	T _{sol}	260	°C	Within 10sec
Reverse Voltage	V _R	3	V	

General Characteristics (@ 25°C)

Parameter	Symbol	Value (typical)	Unit	Test Conditions
Active Area	A	0.121	mm ²	400 x 400 μm ²
Responsivity	R	0.15	A/W	λ=305nm, Vr=0V
Dark Current	I _D	< 1	nA	Vr = 1V
Photo Current	I _{ph}	~ 130	nA	UVB Lamp, ~1mW/cm ²
		~ 1.5	nA	1UVI
Temperature Coefficient	I _{tc}	< 0.3	%/°C	UVB Lamp
Spectral Detection Range	λ	200 ~ 325	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.