Technical Data Sheet

RoHS

Specification

UVC SENSOR

SUVISEN

Seoul Viosys Co., Ltd.		
Drawn by	Checked by	Approved by

Customer		
Checked by		Approved by

Technical Data Sheet

SUVC-CS-S3535

SUVISEN 280

SEOUL SEOULVIOSYS

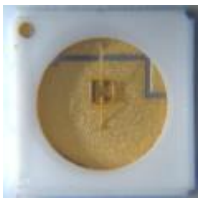
Feature

AlGaN Based Material

Active Area A = 0.121 mm^2

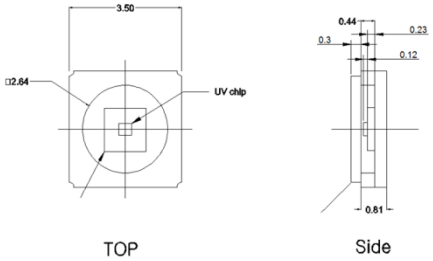
SMD3535 PKG / Quartz cover type

High UV sensitivity & Low Dark Current



Applications UVC source Monitor

Outline Diagrams and Dimensions(3535)



TOP Side

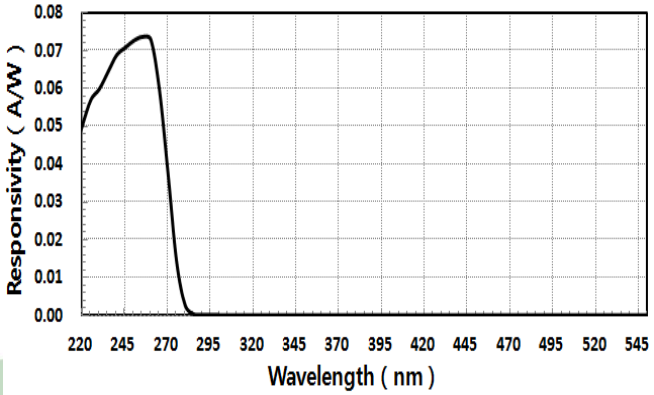
Maximum Ratings

Parameter	Symbol	Value	Unit	Remark
Operating Temperature	T_{opt}	- 40 to + 85	℃	
Storage Temperature	T_{sot}	- 40 to + 85	℃	
Soldering Temperature	T_{sol}	260	℃	Within 10sec
Reverse Voltage	V_R	3	V	

General Characteristics (@ 25℃)

Parameter	Symbol	Value (typical)	Unit	Test Conditions
Active Area	A	0.121	mm^2	400 x 400 μm^2
Responsivity	R	0.07	A/W	λ=265nm, Vr=0V
Dark Current	I_D	< 1	nA	Vr = 1V
Photo Current	I_{ph}	~ 140	nA	UVC Lamp, ~1mW/cm^2
Temperature Coefficient	I_{tc}	< 0.3	%/℃	UVC Lamp
Spectral Detection Range	λ	200 ~ 280	nm	Cut off : 10% of R

Spectral Responsivity (A/W)



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

Technical Data Sheet

SUVC-CS-T18

SUVISEN 280

SEOUL VIOSYS

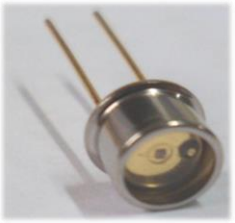
Feature

AlGaN Based Material

Active Area A = 0.121 mm^2

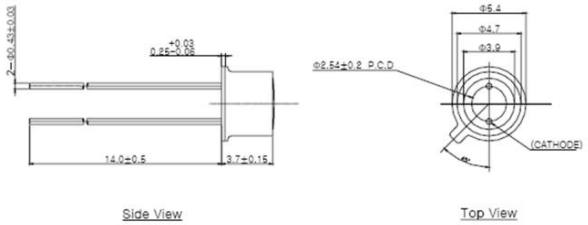
TOPKG / BSG type

High UV sensitivity & Low Dark Current



Applications UVC source Monitor

Outline Diagrams and Dimensions(TOPKG)



Side View　　Top View

BSG : Borosilicate glass

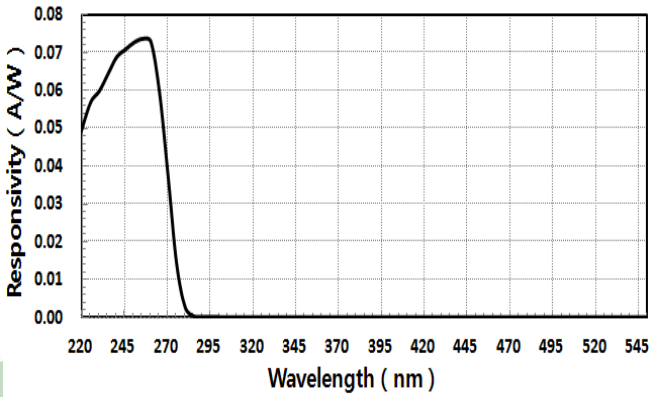
Maximum Ratings

Parameter	Symbol	Value	Unit	Remark
Operating Temperature	T_{opt}	- 40 to + 85	℃	
Storage Temperature	T_{sot}	- 40 to + 85	℃	
Soldering Temperature	T_{sol}	260	℃	Within 10sec
Reverse Voltage	V_R	3	V	

General Characteristics (@ 25℃)

Parameter	Symbol	Value (typical)	Unit	Test Conditions
Active Area	A	0.121	mm^2	400 x 400 μm^2
Responsivity	R	0.07	A/W	λ=265nm, Vr=0V
Dark Current	I_D	< 1	nA	Vr = 1V
Photo Current	I_{ph}	~ 140	nA	UVC Lamp, ~1mW/cm^2
Temperature Coefficient	I_{tc}	< 0.3	%/℃	UVC Lamp
Spectral Detection Range	λ	200 ~ 280	nm	Cut off : 10% of R

Spectral Responsivity (A/W)



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