



# THE DATASHEET OF ESS-3535UVCUVA



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## DATA SHEET

ESL NO.. : ESS-3535UVCUVA

CUS NO. :

REV : A / 0

Producer: \_\_\_\_\_

*Eden*

Auditor: \_\_\_\_\_

Approver: \_\_\_\_\_

*Jack*

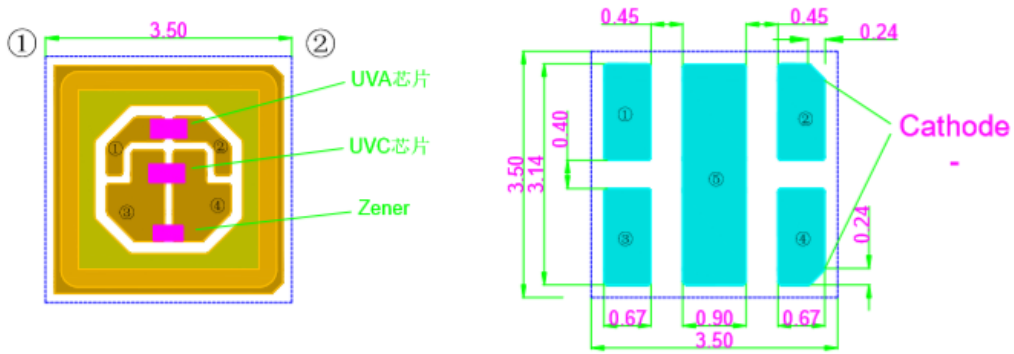
CUSTOMER'S APPROVAL : \_\_\_\_\_

DCC : \_\_\_\_\_

# 3535 SMD LED

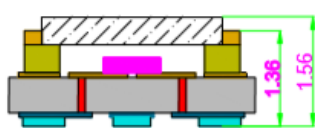
ESS-3535UVCUVA

REV:A/0

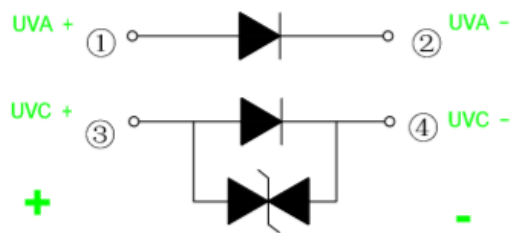


Front View

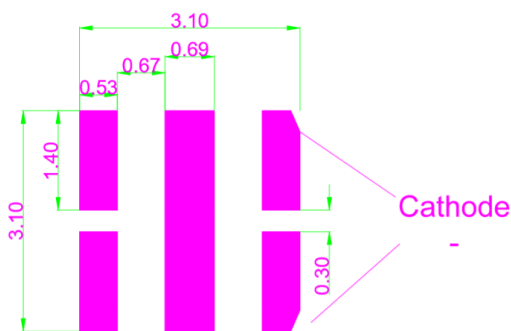
Back View



Side View



Circuit Diagram



Note:

1. All Dimensions are in millimeters.
2. Heat sink bottom need to use the solder paste welding

3535 SMD LED

ESS-3535UVCUVA

REV:A /0

## FEATURES

- \* 3535 SMD LED
- \* High reliability
- \* Low operating voltage
- \* Silicone Packaging
- \* PB Free products (Compliant with EU's RoHS)

## Application

- \* Personal hygiene
- \* Surface disinfection
- \* Portable devices
- \* Water disinfection



# 3535 SMD LED

## ESS-3535UVCUVA

REV:A /0

### UVA

ABSOLUTE MAXIMUM RATING : ( Ta = 25°C )

Symbol	Parameter	Rated	Unit
IFM	Forward Current	200	mA
VR	Reverse Voltage	5	V
PM	Power Consumption	500	mW
Top	Operating Temperature Range	- 40~85	° C
Tstg	Storage Temperature Range	- 40~85	° C

ELECTRO-OPTICAL CHARACTERISTICS : ( Ta = 25°C )

SYMBOL	PARAMETER	TEST CONDITION	Rated	UNIT
$\lambda_p$	Peak Wavelength	IF = 150mA	390-400	nm
$\Phi_e$ [3]	Radiant Flux		120	mW
VF	Forward Voltage		3.0-3.4	v
2 $\theta$ 1/2	View Angle		120	deg

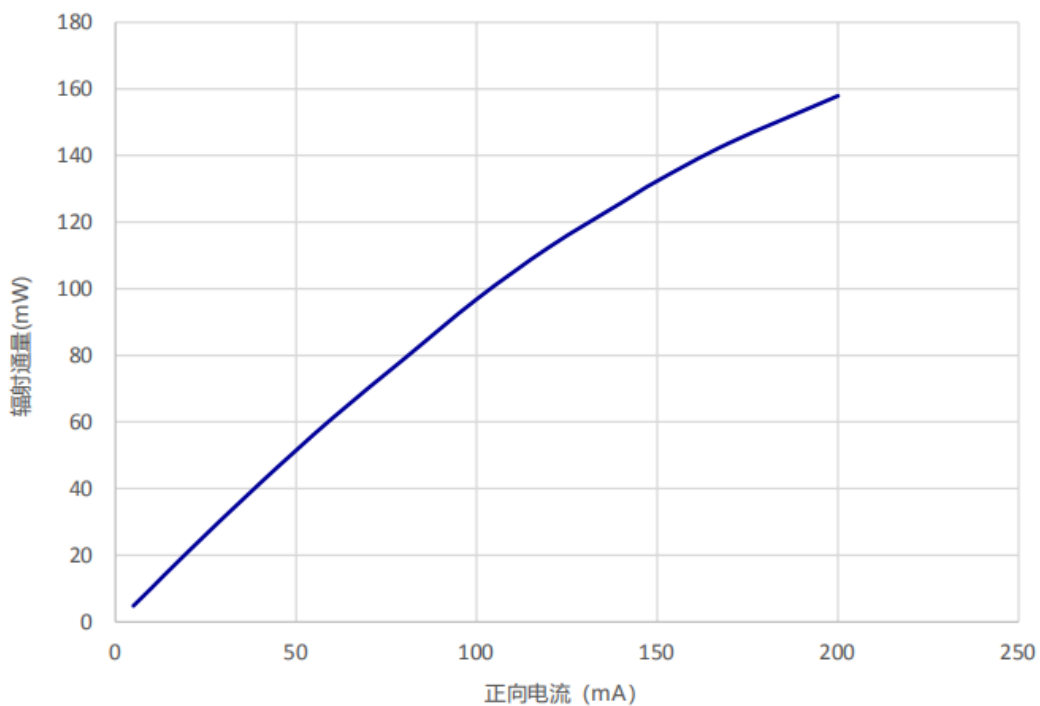


3535 SMD LED

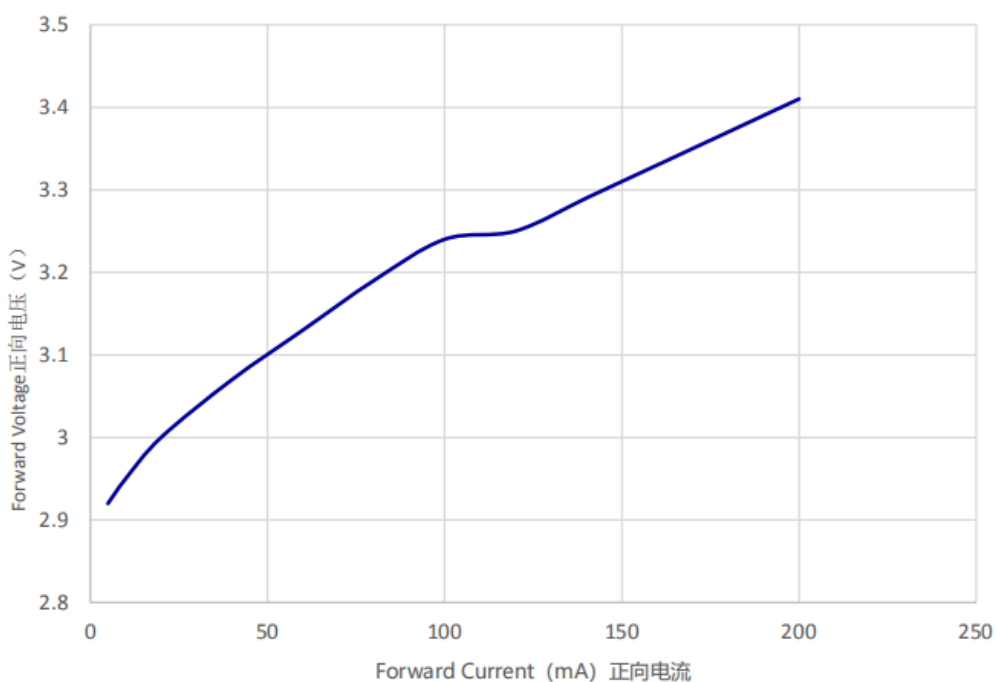
ESS-3535UVCUVA

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### RELATIVE RADIANT FLUX VS. CURRENT



### ELECTRICAL CHARACTERISTICS





# 3535 SMD LED

## ESS-3535UVCUVA

REV:A /0

### UVC

ABSOLUTE MAXIMUM RATING : ( Ta = 25°C )

Symbol	Parameter	Rated	Unit
IFM	Forward Current	50	mA
VR	Reverse Voltage	5	V
PM	Power Consumption	200	mW
Top	Operating Temperature Range	- 40~85	° C
Tstg	Storage Temperature Range	- 40~85	° C

ELECTRO-OPTICAL CHARACTERISTICS : ( Ta = 25°C )

SYMBOL	PARAMETER	TEST CONDITION	Rated	UNIT
$\lambda_p$	Peak Wavelength	IF = 40mA	270-280	nm
$\Phi_e$ [3]	Radiant Flux		5	mW
VF	Forward Voltage		5.0-8.0	v
2 $\theta$ 1/2	View Angle		120	deg

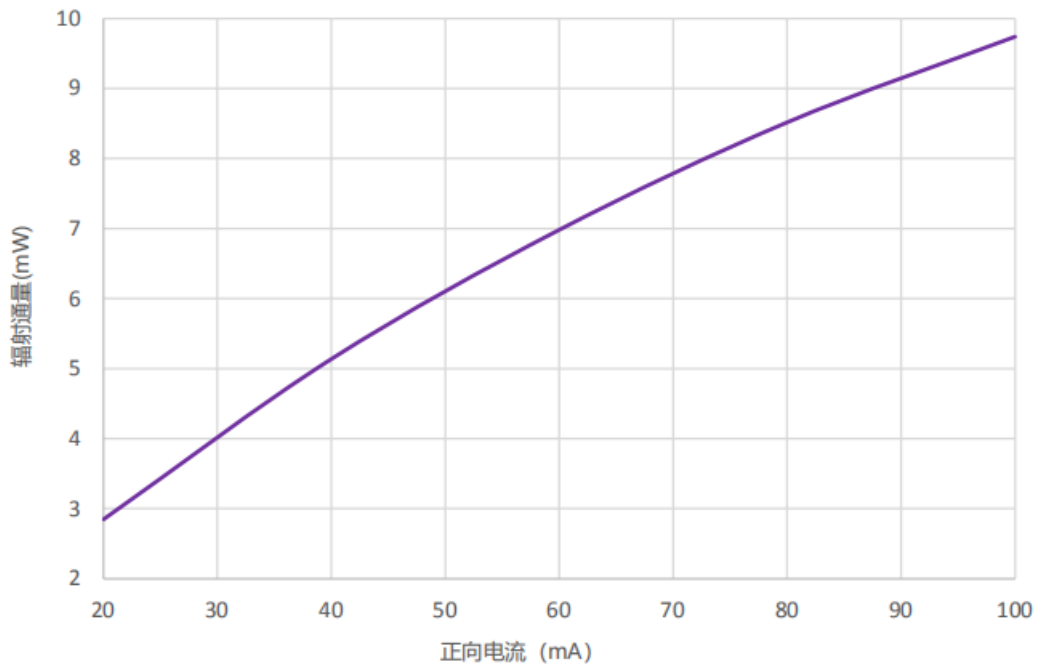


# 3535 SMD LED

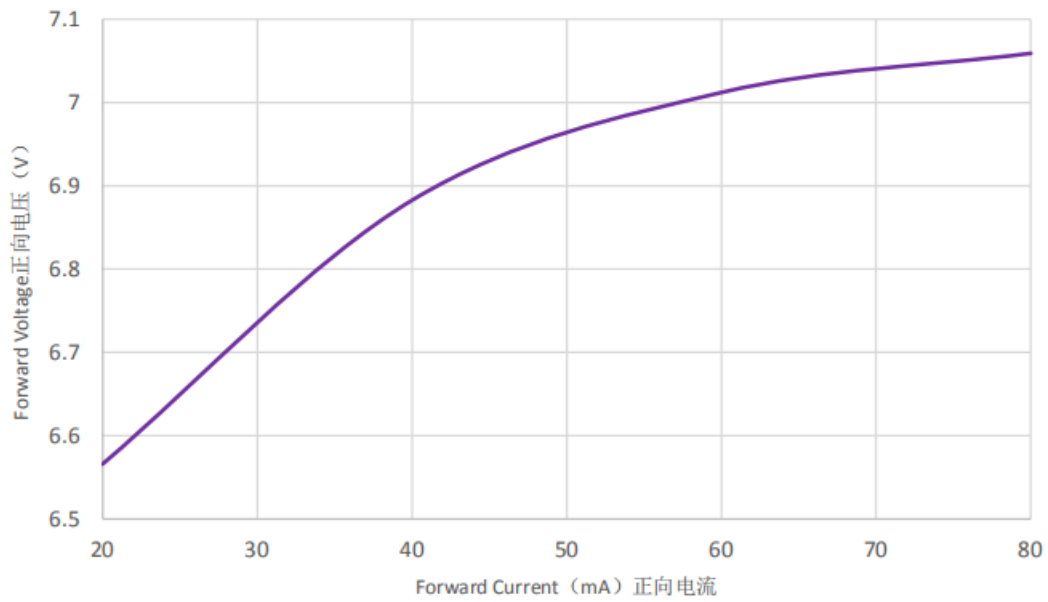
## ESS-3535UVCUVA

REV:A /0

### RELATIVE RADIANT FLUX VS. CURRENT



### ELECTRICAL CHARACTERISTICS





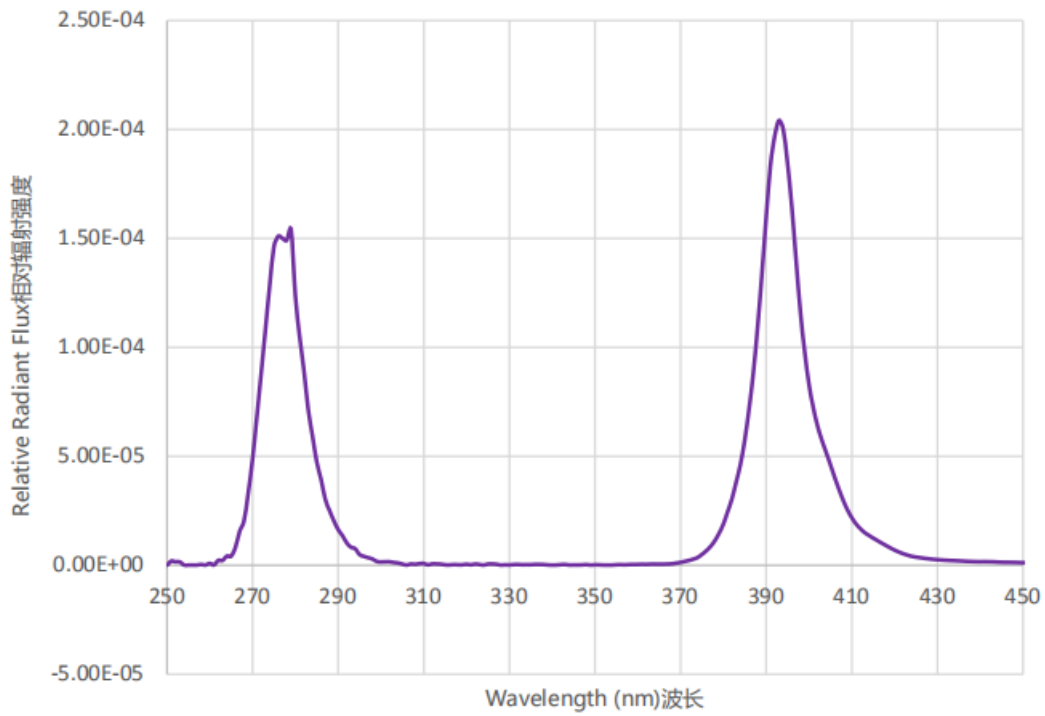
3535 SMD LED

ESS-3535UVCUVA

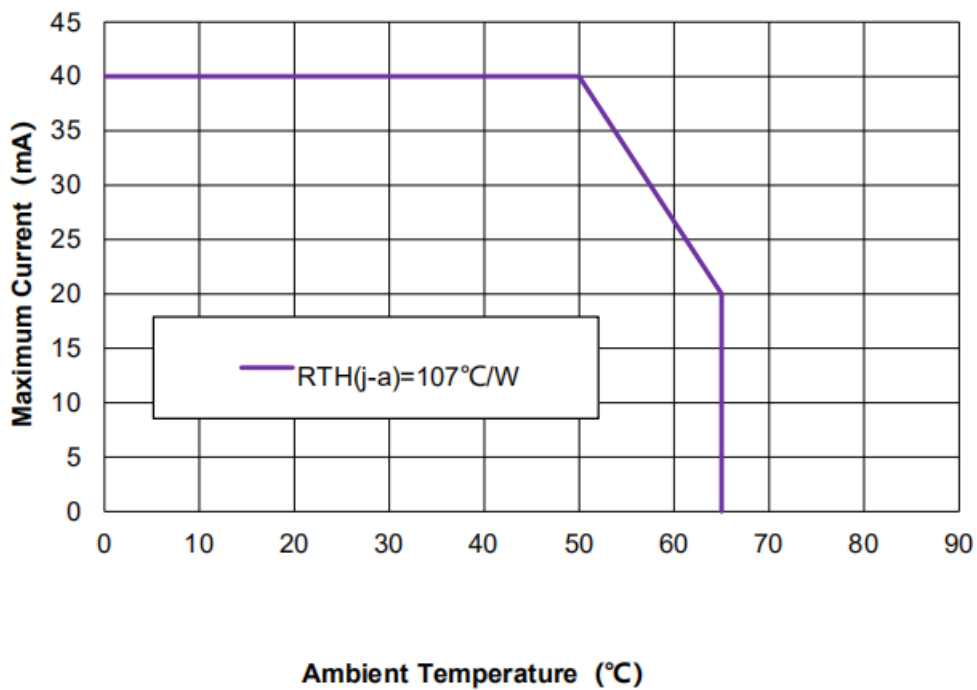
REV:A /0

# UVA / UVC

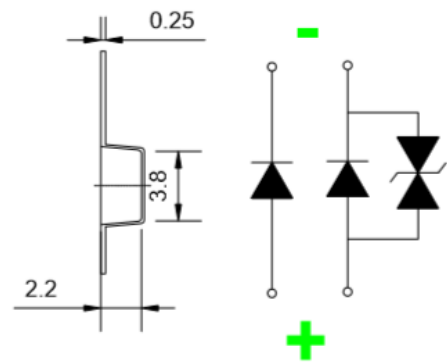
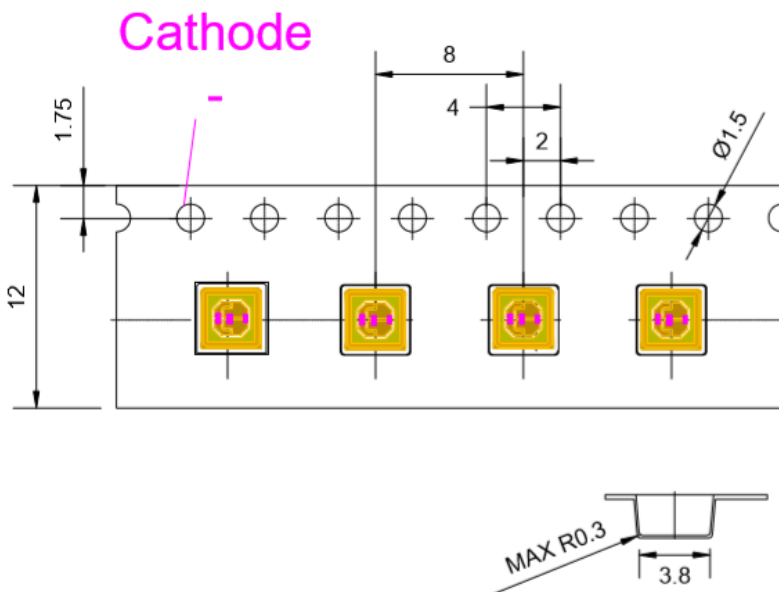
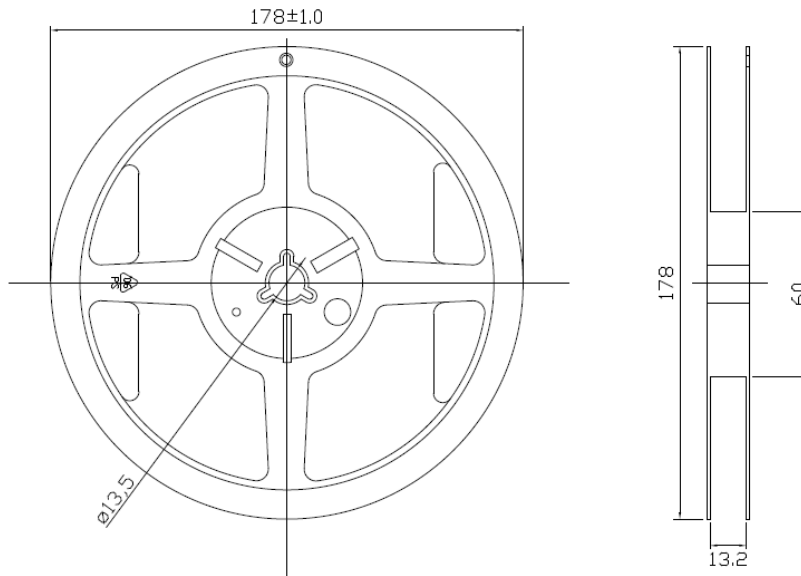
## RELATIVE SPECTRAL POWER DISTRIBUTION



## CURRENT VS. AMBIENT TEMPERATURE



※ Package Tape Specifications: (1000pcs/Reel)





# 3535 SMD LED

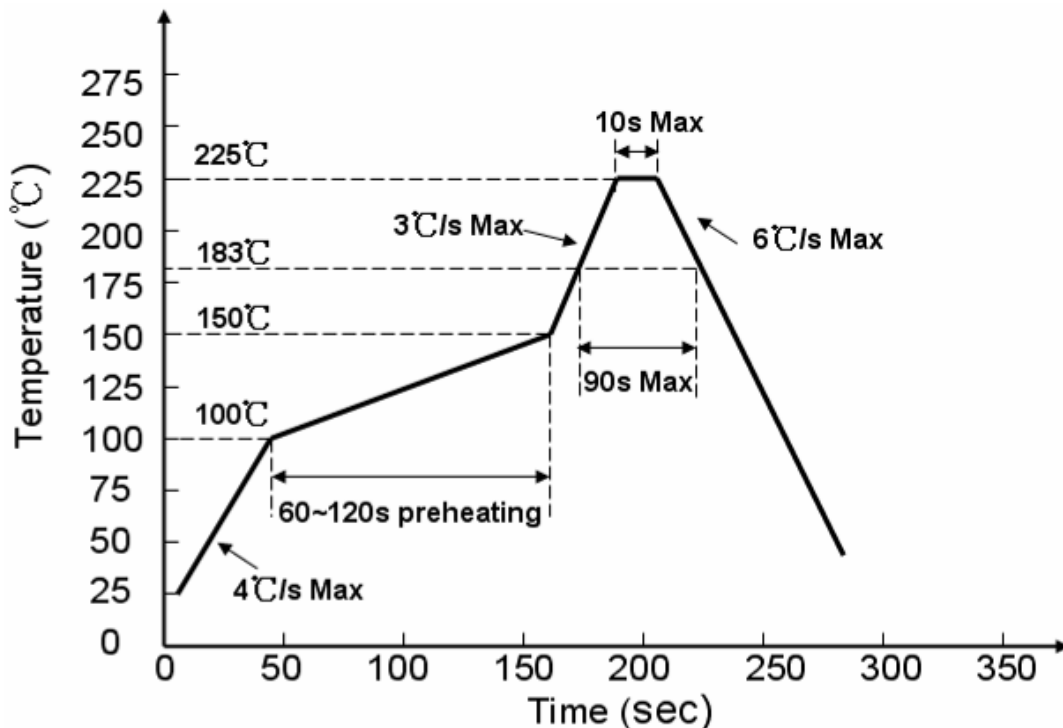
## ESS-3535UVCUVA

REV:A /0

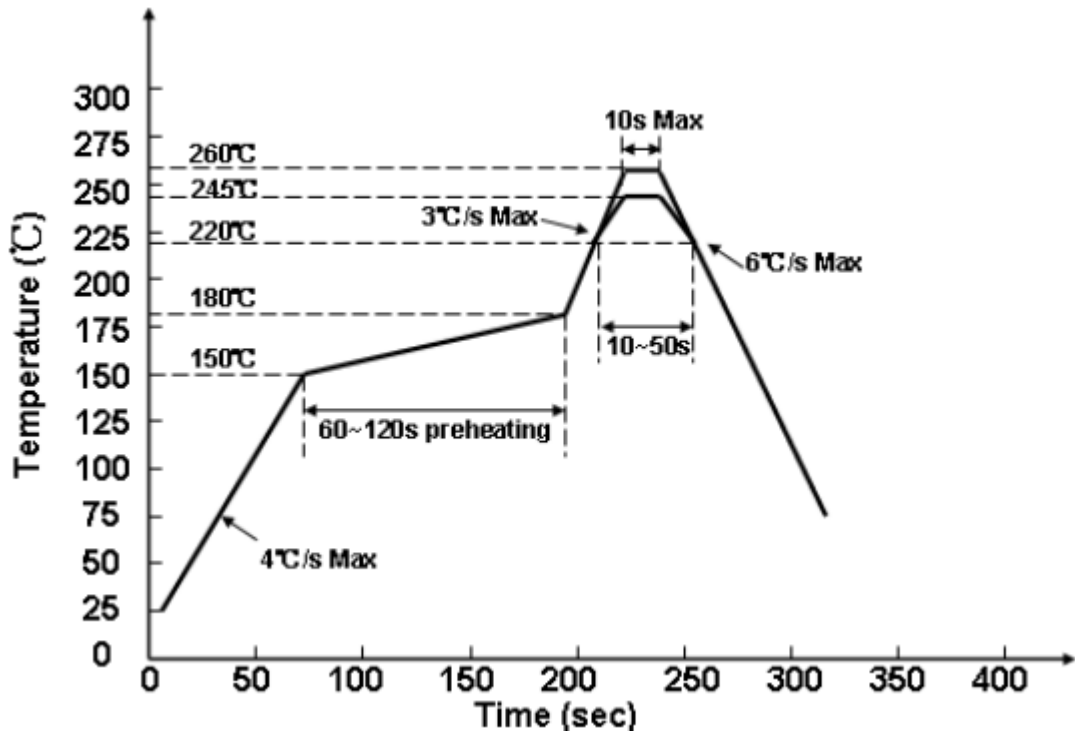
### ※ Precautions for use :

- 1) Customer must apply the current limiting resistor in the circuit so as to drive the LEDs within the rated current. Otherwise slight voltage shift maybe will cause big current change and burn out will happen.
- 2) Also, caution should be taken not to overload the LEDs with instantaneous high voltage at the turning ON and OFF of the circuit.
- 3) Storage:
  - a) 3.1 Don't open the moisture proof bag before ready to use the LEDs.
  - b) 3.2 The LEDs should be kept at 30°C or less and 60%RH or less before opening the package. The max. storage period before opening the package is 1 year.
  - c) 3.3 After opening the package, the LEDs should be kept at 30°C/35%RH or less, and it should be used within 7 days.
  - d) 3.4 If the LEDs be kept over the conditions of 3.4, baking is required before mounting.  
Baking condition as below:  $60 \pm 5^\circ\text{C}$  for 12 hrs.
- 4) Soldering condition:

#### 4.1 Lead Solder:



### 4.2 Lead Free Solder:



Note:

- a) 1.Reflow soldering should not be done more than two times.
- b) 2. Don't put stress on the LEDs when soldering.
- c) 3.Don't warp the circuit board before it have been returned to normal ambient conditions after soldering

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View ESS-3535UVCUVA on WIN SOURCE](#)
- ⊖ [Shanghai Everstar Electronics Co., Ltd. Information](#)

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