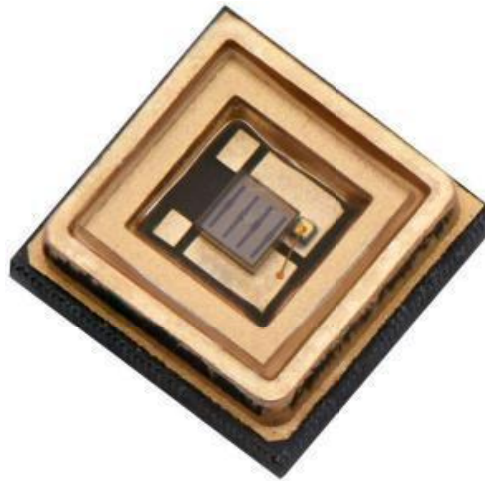


**UV SMD 3535 1W Series Data Sheet**

**SOL-3535UC100-XX**



**SOL-3535UC100-XX**

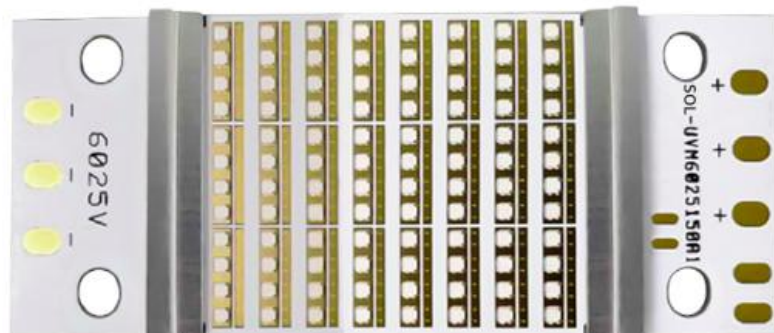
**UVC 265-285nm**

## ➤ Features:

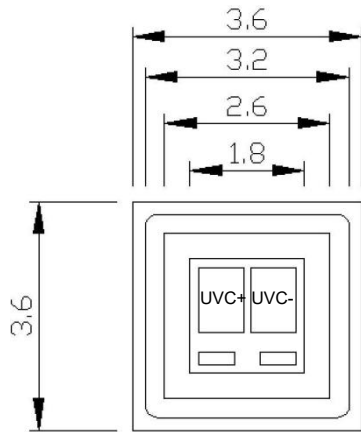
- Deep Ultraviolet LED
- Dimension : 3.6mmX3.6mm X 1.62mm
- All Metal Design Cu Substrate / Al reflector
- View Angle :Flat
- Low thermal resistance

## ➤ Application:

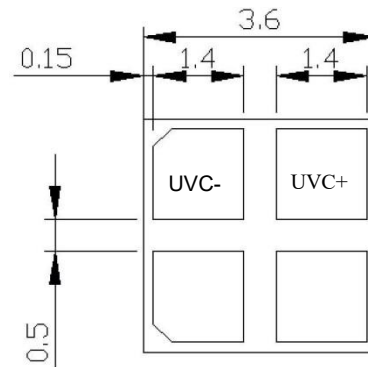
- Disinfection
- Chemical and Biological analysis



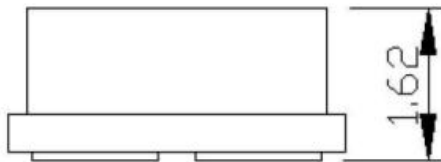
## ➤ Outline Dimensions:



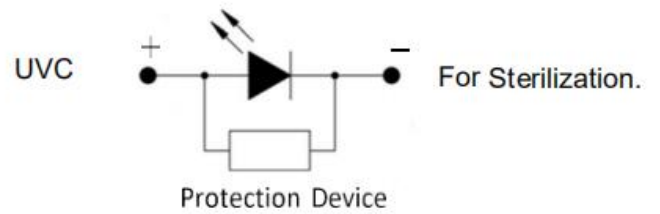
top view



Bottom view



side view



### Note:

1. All dimension units are millimeters.
2. All dimension tolerance is  $\pm 0.2\text{mm}$  unless otherwise noted.

## ➤ Absolute Maximum Ratings

(Ta=25°C)

Parameter	Symbol	Value	Unit
Power Dissipation	p	0.7	W
Forward Current	I <sub>F</sub>	100	mA
Maximum Current	I <sub>F</sub>	150	mA
Thermal Resistance, Junction-Case	R <sub>th,J-C1</sub>	15	°C/W
Operating Temperature Range	T <sub>opr</sub>	-40°C to +60°C	
Storage Temperature Range	T <sub>stg</sub>	-40°C to +60°C	
Soldering Condition	T <sub>sol</sub>	230°C For 5 Seconds	

Note.1. The thermal resistance value is measured with MCPCB (Star)

## Initial Electrical/Optical Characteristics:

(Ta=25°C IF=100mA)

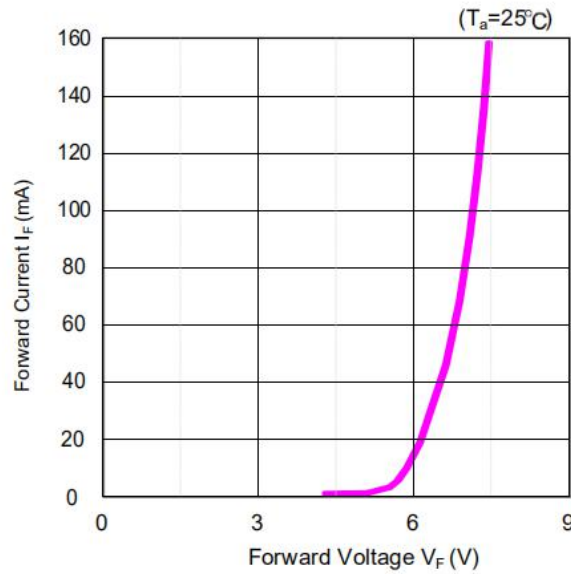
Parameter	Symbol	Min	Typ	Max	Unit
Peak wavelength	λ <sub>p</sub>	265	275	285	nm
Radiant Flux	Φ <sub>e</sub>	6	12	—	mW
Forward Voltage	V <sub>F</sub>	—	6	8	V
Spectral width	Δλ	—	15	—	nm
LED Junction Temperature	T <sub>J</sub>	—	60	80	°C

Note:

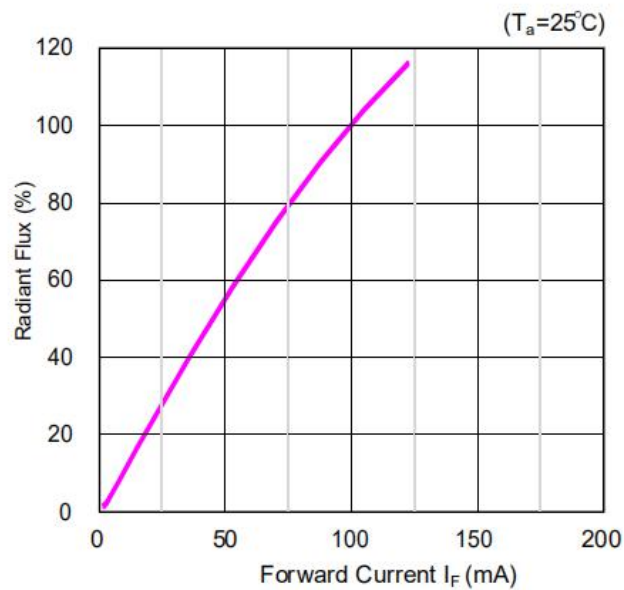
1. Forward voltage measurement allowance is ±0.2V
2. Radiant flux measurement allowance is ±10%
3. Irradiance tested at a distance 10mm from Al reflector
4. Wavelength measurement allowance is ±3nm

## ➤ Characteristic Diagram

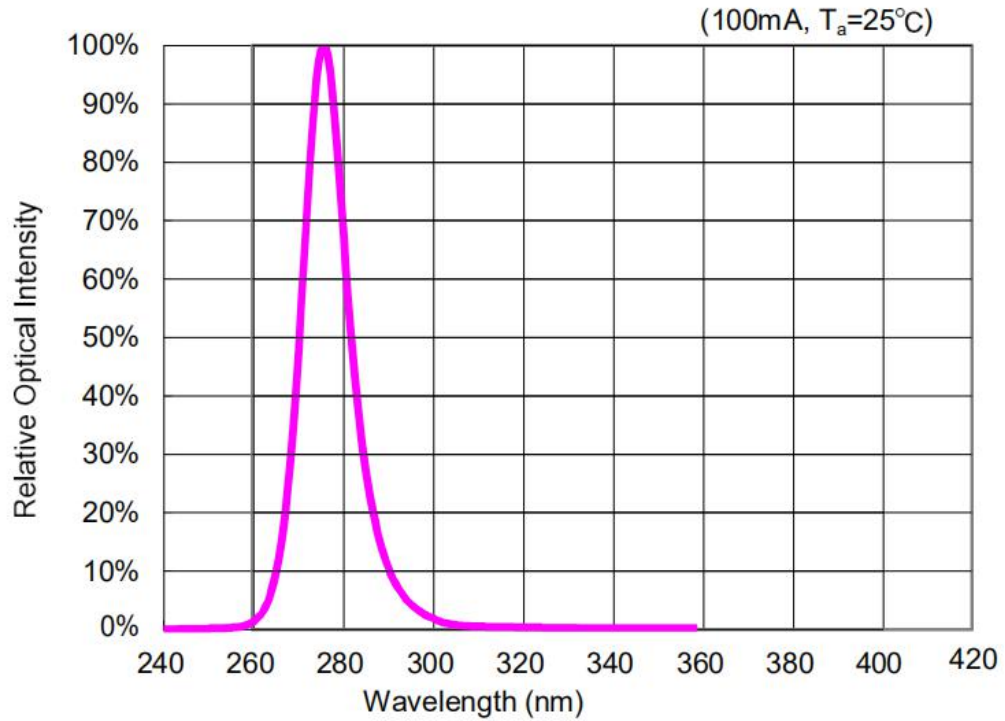
- Forward Current vs • Forward Voltage



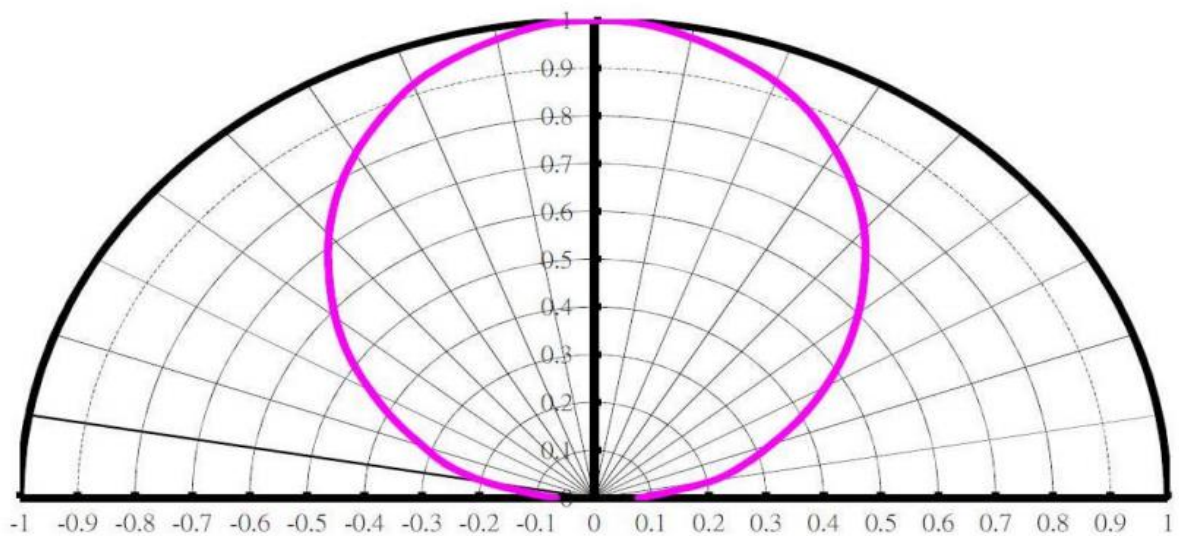
- Relative Intensity vs • Forward Current



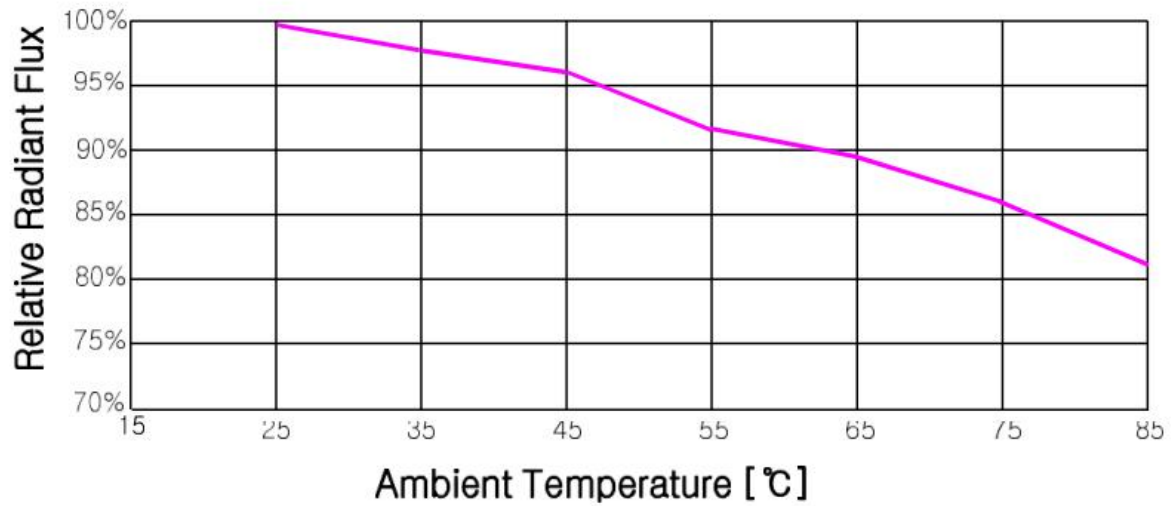
- Spectral Power Distribution



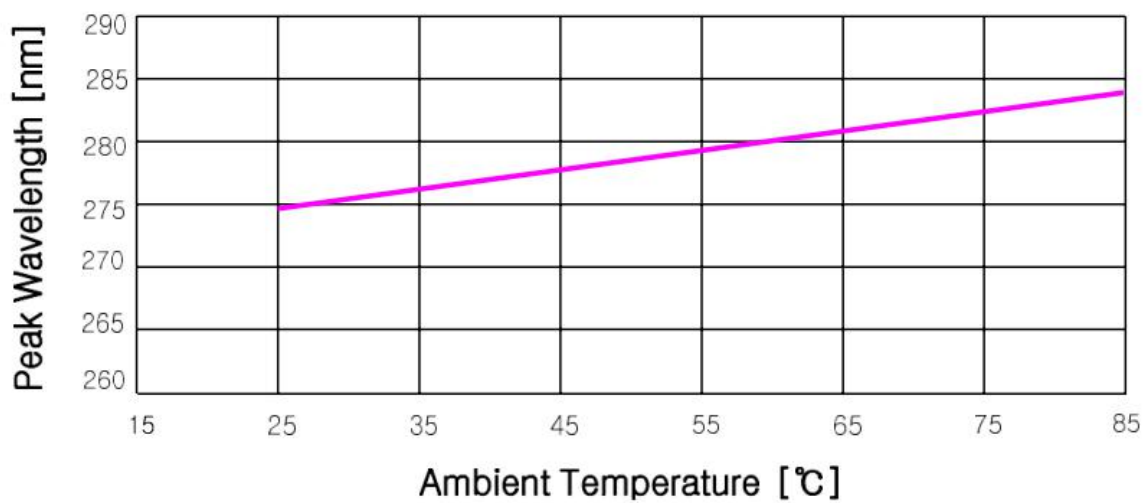
- Typical Radiation Pattern



- Ambient Temperature vs. Relative Radiant Flux, IF=100mA



- Ambient Temperature vs. Peak Wavelength ,IF=100mA



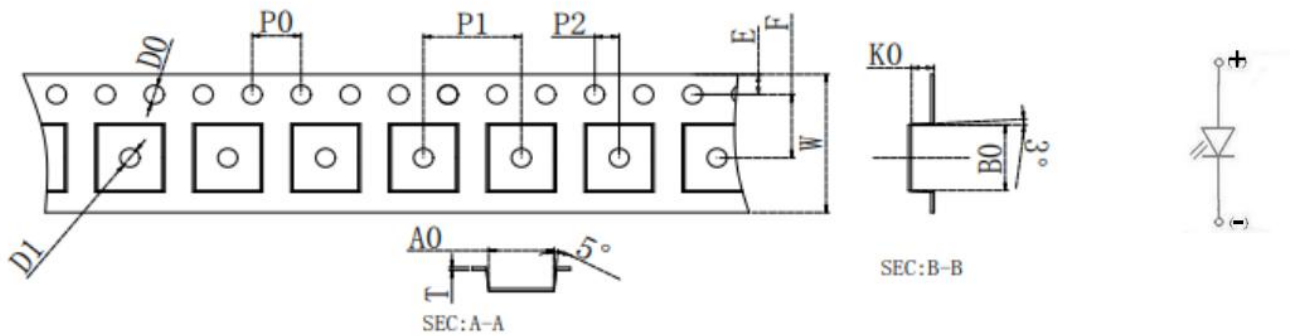
## ➤ Shipping Package Style:

### Lens Type

#### Tapping Dimension Packaging Specification

##### FLAT Lens Type:

- Moisture proof bag
- 1 Reel/bag
- Qty: 4000 (MAX)/Reel



UNIT:MM

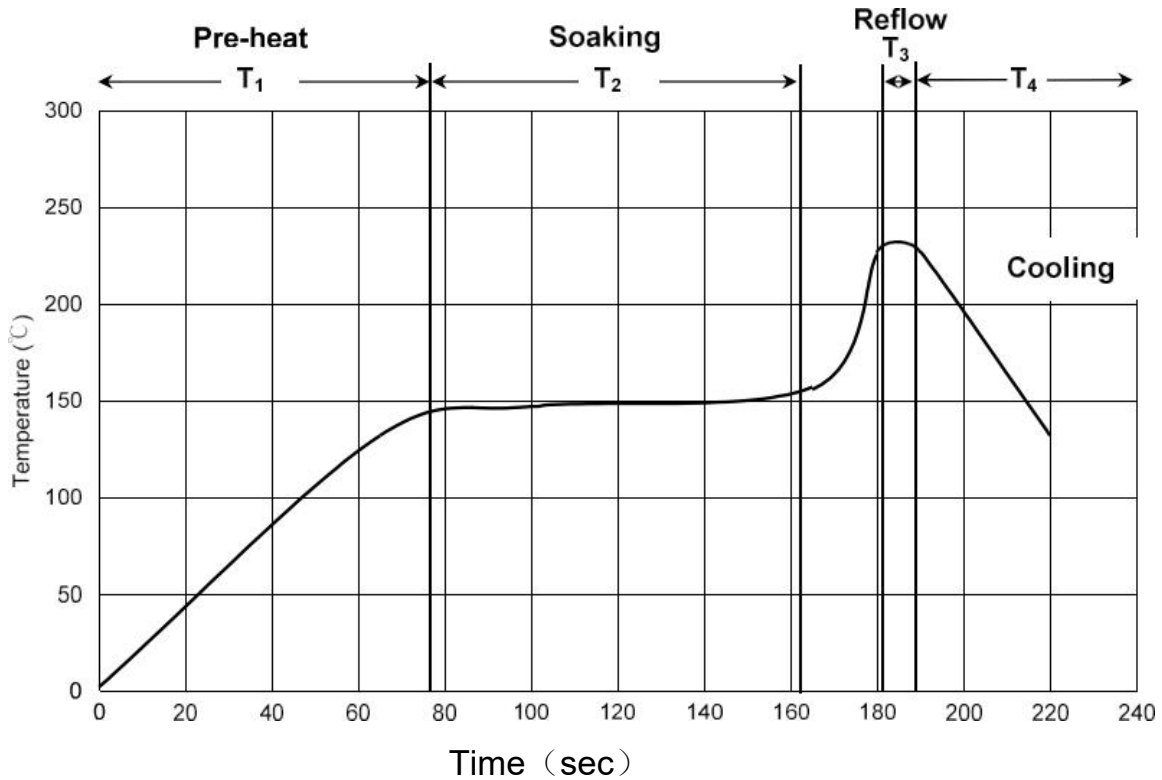
W	12.00±0.10	T	0.20±0.20	D1	1.60±0.10	单位	mm
E	1.75±0.10	F	5.50±0.10	DO	1.60±0.10	材质	PC
PO	4.00±0.10	P1	8.00±0.10	P2	2.00±0.10	品名	3535-2.2
AO	3.75±0.10	BO	3.70±0.10	KO	2.20±0.10	制造商	众宇光电





## ➤ Recommended Solder Profile:

Soldering Recommended soldering conditions:



T1	Ramp up rate	1.0~3.0 °C/sec
	Pre-heat time	50~80 sec
T2	Soaking temperature	155~185 °C
	Dwell time during soaking	60~120 sec
T3	Reflow temperature	220~230 °C
	Reflow time	Max 10sec
	Ramp up rate during reflow	1.2~2.3 °C /sec
T4	Cooling	1.0~6.0 °C/sec

Note: Suggest using Sn96Ag3Cu0.5 lead free solder.

### Cleaning

Use alcohol-based cleaning solvents such as isopropyl alcohol to clean the LED if necessary