

Draft Specification For UV-C Series

3535UVC0.5W

Features

- Deep Ultraviolet LED
- Dimension: 3.6mm×3.6mm x1.62mm
- All Metal Design Cu Substrate/Al reflector
- View Angle :Flat
- Low thermal resistance

Applications

- Disinfection
- Chemical and Biological analysis

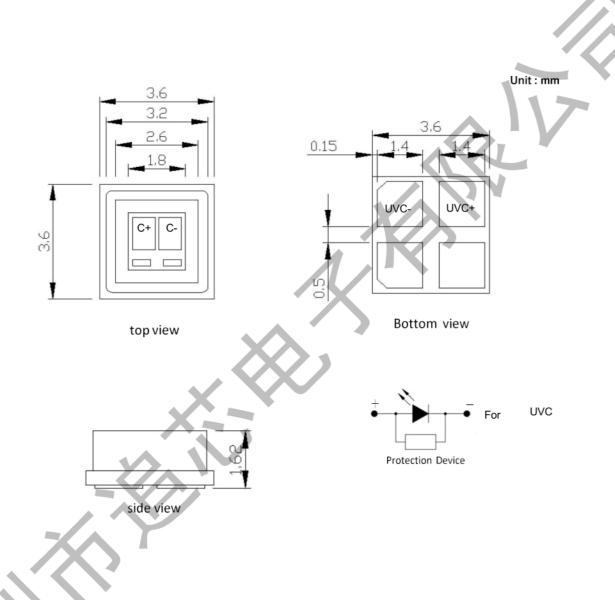


CAUTION

- LEDs emit very strong UV radiation.
- Don't look directly into the LED light.

 IIV radiation can berm your eyes.
- UV radiation can harm your eyes.
- To prevent even inadequate exposure, wear protective eyewear.
- If LEDs are embedded in devices, please indicate warning labels against the UV light LED used.
- · Keep out of reach of children.
- Specification and dimension are subject to change for improvement without notice.

Outline Dimension



Notes:

- 1. All dimension units are millimeters.
- 2. All dimension tolerance is ±0.2mm unless otherwise noted.

UVC For Sterilization

Absolute Maximum Ratings

(Ta=250)

Parameter	Symbol	Value	Unit	
Power Dissipation	P	0.5	W	
Forward Current	I_F	20	mA	
Maximum Current	$\mathbf{I}_{\mathbf{F}}$	60	mA	
Thermal Resistance, Junction-Case	R _{th} , J-C1	15 °C/N		
Operating Temperature Range	T_{opr}	- 40°C to + 60°C		
Storage Temperature Range	$\mathrm{T_{stg}}$	- 40°C to + 100°C		
Soldering Condition	T_{sol}	230°C For 5 Seconds		

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

Initial Electrical/Optical Characteristics

(Ta=25°C IF=60mA)

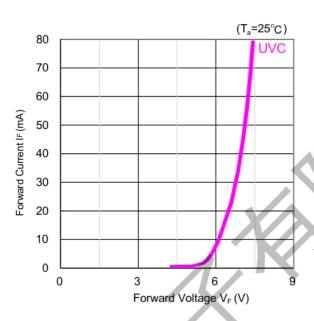
Parameter	Symbol	Min	Тур	Max	Unit
Peak wavelength	λ_p	265	275	285	nm
Radiant Flux	Фе	6	10	_	mW
Radiant Irradiance	Ee		2.5	_	mW/cm^2
Forward Voltage	$V_{\rm F}$	-	6	10	V
Spectra half-width	Δλ	_	15	_	nm
LED Junction Temperature	TJ	_	60	80	°C

Note

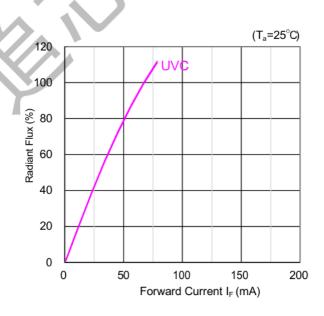
- 1. Forward voltage measurement allowance is \pm 0.2V.
- 2. Radiant flux measurement allowance is \pm 10%.
- 3. Irradiance tested at a distance 10mm from Al reflector.
- 4. Wavelength measurement allowance is ± 3nm.

Characteristic Diagram

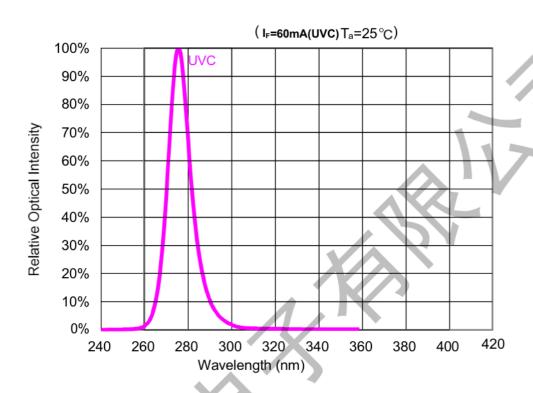
• Forward Current vs. Forward Voltage



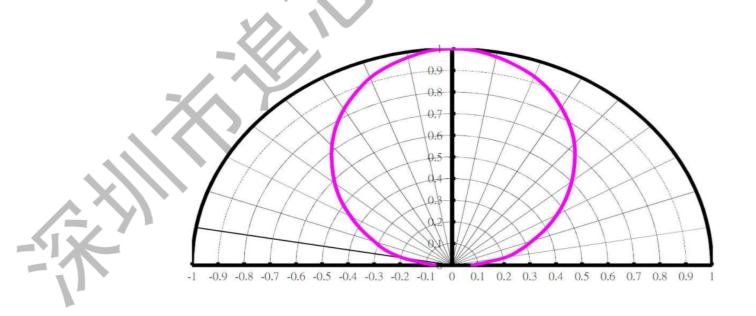
Relative Intensity vs. Forward Current



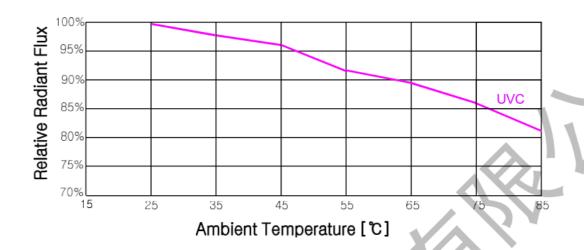
• Spectral Power Distribution



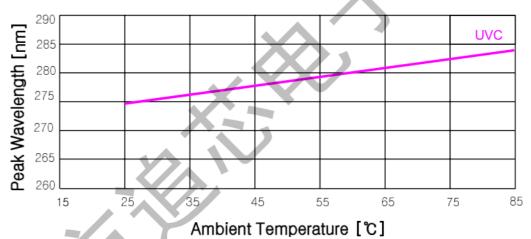
• Typical Radiation Pattern



● Ambient Temperature vs. Relative Radiant Flux, I_F=60mA(UVC)



Ambient Temperature vs. Peak Wavelength , I_F=60mA(UVC)



Label

Part NO: Product model

LOT NO: Instruction number

Spec NO: product

Date: Date

Bin No.: Class-Bin No.-Wavelength code

Q'ty: Quantity

VF (V): Forward voltage

Φ (mW): Radiant flux

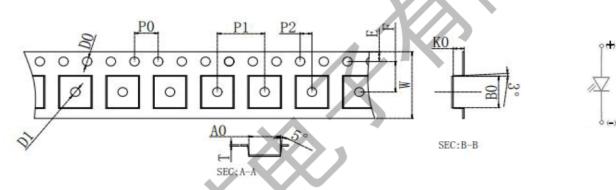
λp(nm): Peak Wavelength

Shipping Package Style

Lens Type

Tapping Dimension Packaging Specification FLAT Degree Lens Type:

- Moisture proof bag.
- 1 Reel/bag.
- Q'ty: 2500(MAX)/Reel.

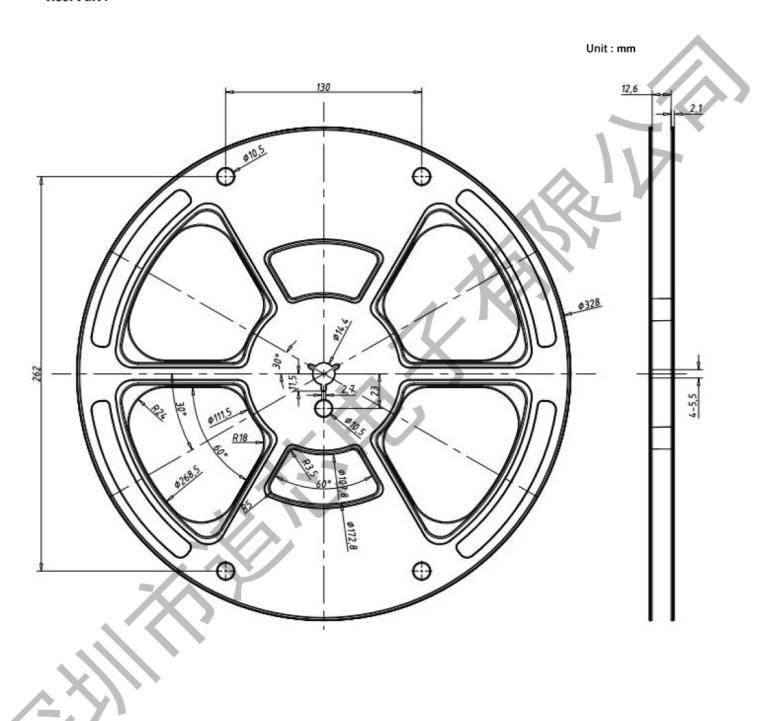


UNIT:MM

W	12.00 ± 0.10	T	0.20 ± 0.02	D1	1.60 ± 0.10	单位	MM
Е	1.75±0.10	F	5.50 ± 0.10	DO	1.60 ± 0.10	材质	PC
P0	4.00 ± 0.10	P1	8.00 ± 0.10	P2	2.00 ± 0.10	品名	3535-2. 2
AO	3.75±0.10	B0	3.70 ± 0.10	КО	2.20 ± 0.10		•

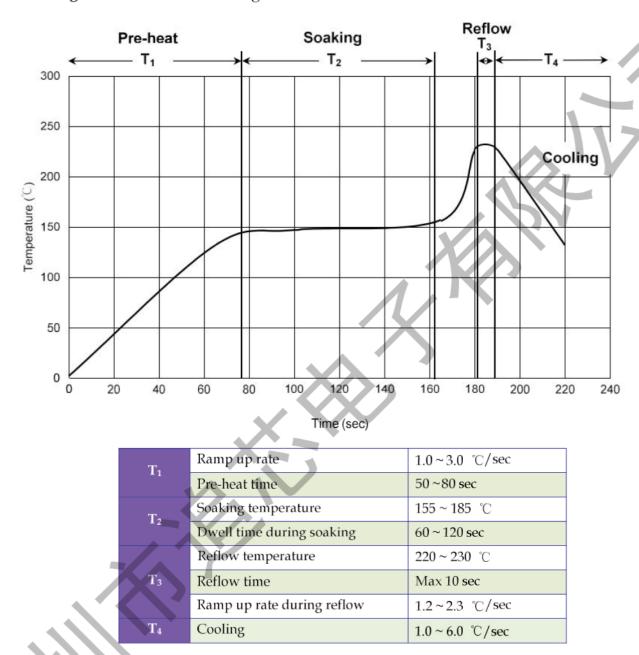
Reel Packaging:

Reel Part:



Recommended Solder Profile

Soldering Recommended soldering conditions:



Note: Suggest using Sn96Ag3Cu0.5 lead free solder.

Cleaning

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