旭宇光电
XUYU Optoelectronics

SPECIFICATION
产品规格书

NO. (编号): _____

Part No.(型号): XY-6868UVCAU5WX1FL-QU

Description(描述): 6868 陶瓷紫外

Version NO.(版本): A0

Date(日期): _____

Customer Approved (客户审核)	Approved (确认)	
Xuyu Approved (旭宇审核)	**Approved (确认)**	**Issued (制定)**
☐Sample（样品） ☑Mass Product（量产供货）		

RoHS compliant

LM-80 LED light source maintenance test ENERGYSTAR

EYE 蓝光危害认证 EN62471/IEC TR 62778

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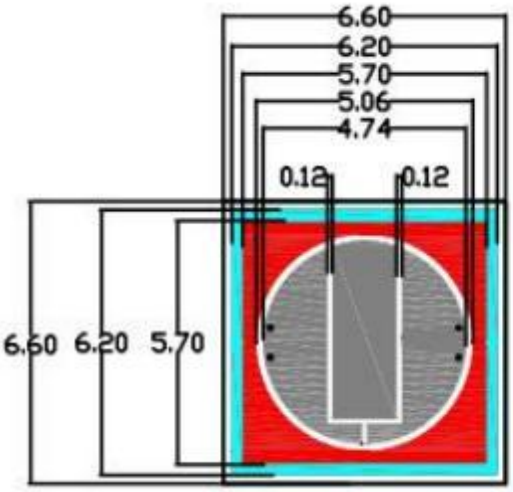
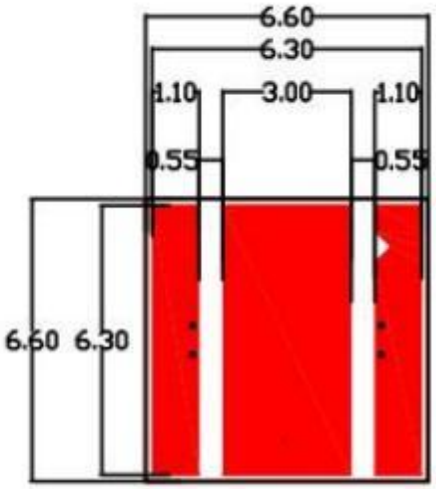
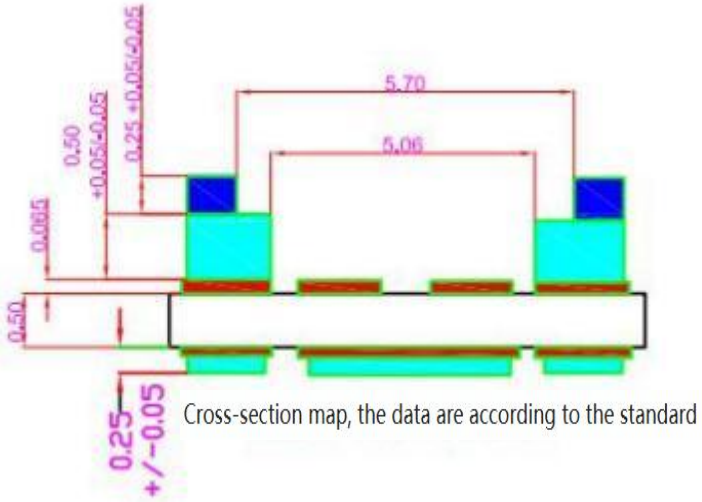
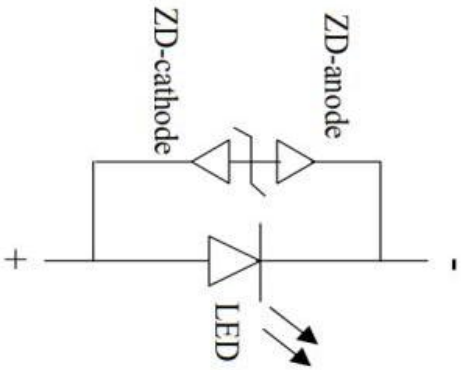
◆ Product appearance size









Notes:

1. All dimensions are in mm
2. Tolerance is ±0.2mm unless otherwise noted.

◆ Absolute Maximum Ratings

(Ta=25℃)

Parameter	Symbol	Value	Unit
Power Dissipation	P	5	W
Forward Current	I_F	600	mA
Maximum Current	I_F	700	mA
Thermal Resistance	R_{th}	3	℃/W
Operating Temperature Range	T_{opr}	-40 to +60	℃
Storage Temperature Range	T_{stg}	-40 to +100	℃
Soldering Temperature	T_{sld}	260℃ for 5 seconds	

◆ Initial Electrical/Optical Characteristics

(Ta=25℃ I_F=400mA)

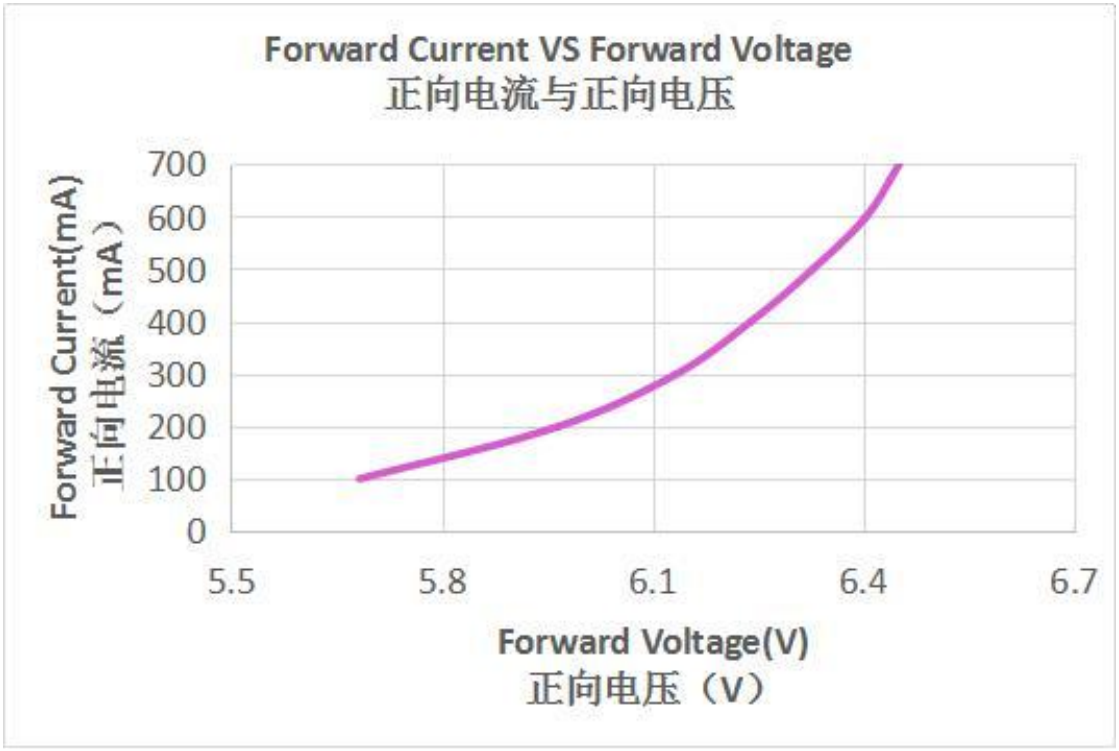
Parameter	Symbol	Min	Typ	Max	Unit
Peak Wavelength	λ_P	265	---	285	nm
Radiant Flux (I_F=400mA)	Φ_e	120	---	200	mW
Forward Voltage	V_F	5	---	8	V
Spectra half-width	$\Delta\lambda$	---	12	---	nm
Junction Temperature	Tj	---	60	80	℃

Notes:

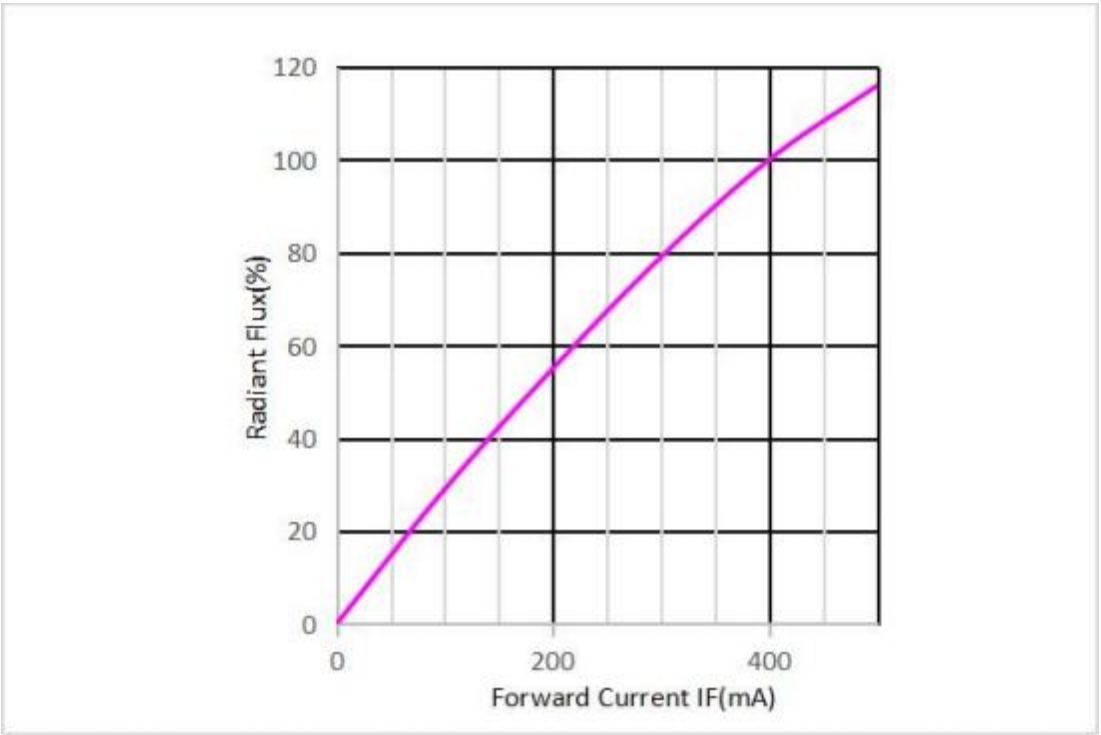
1. Forward voltage measurement allowance is±0.2 V.
2. Radiant flux measurement allowance is±10%.
3. Irradiance tested at a distance 10mm from Al reflector.
4. Wavelength measurement allowance is±3nm.

◆ Typical Characteristic Curves

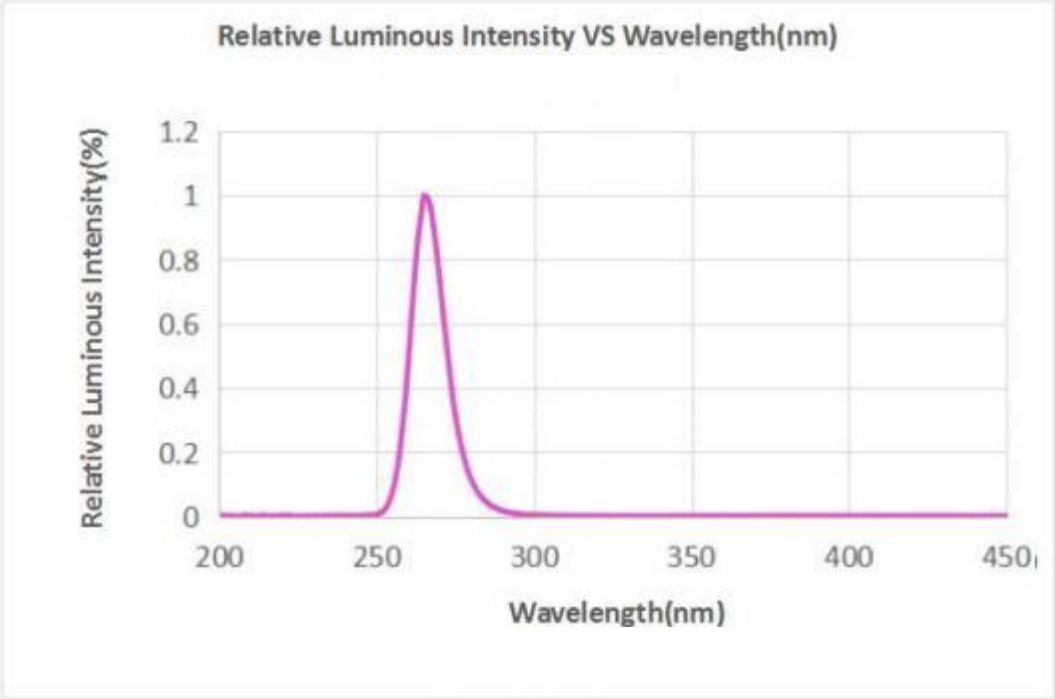
Forward Current VS Forward Voltage



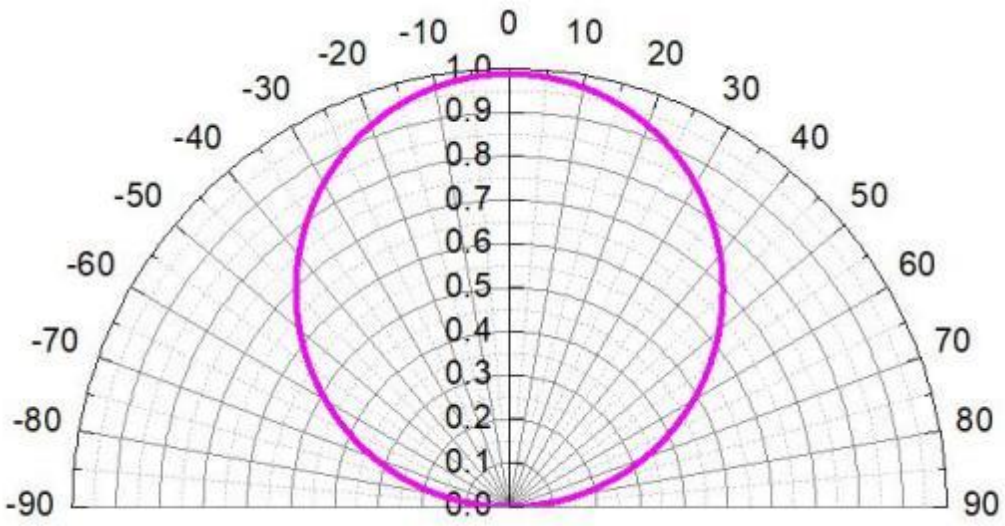
Radiant Flux VS Forward Current



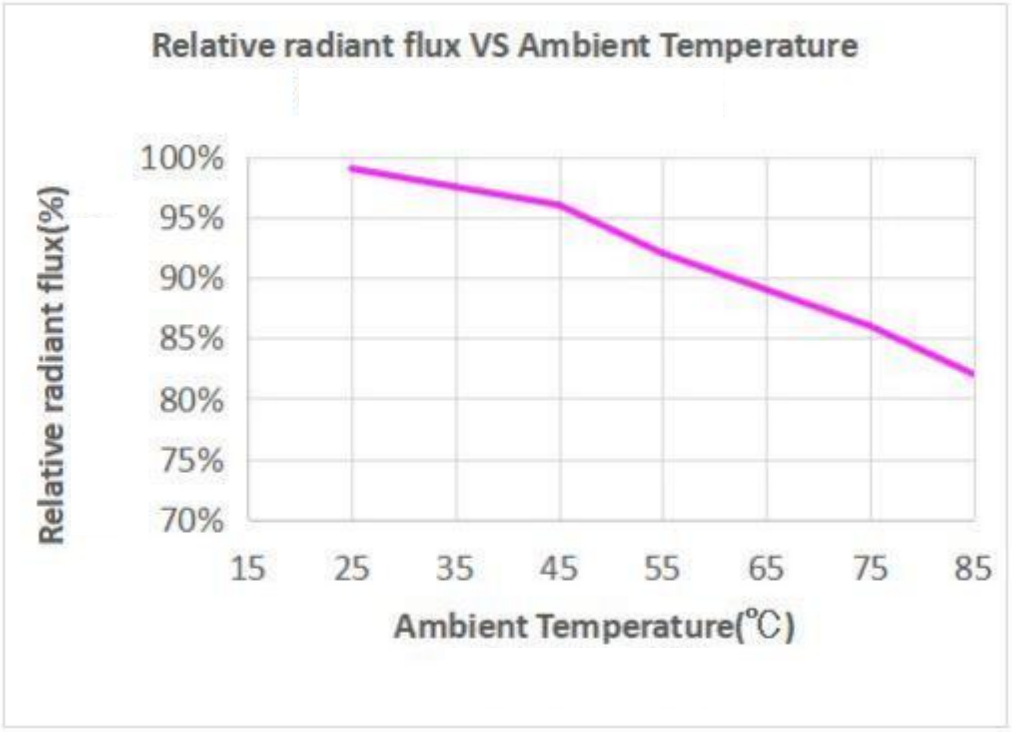
Spectral Power distribution



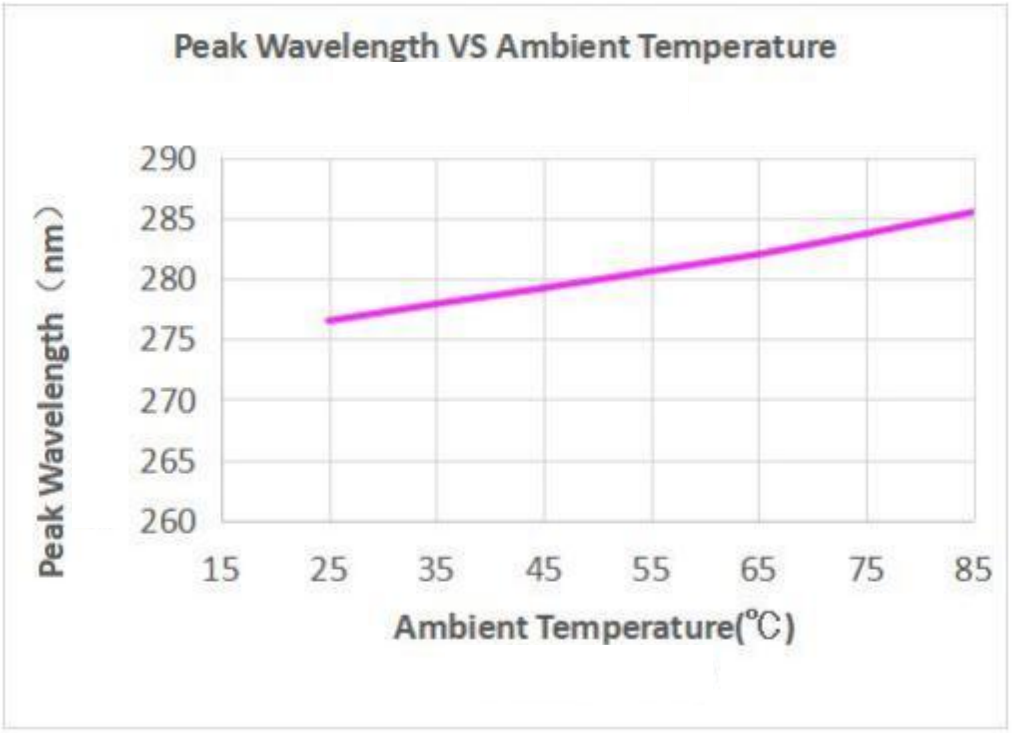
Typical Radiation Angle



Relative Radiant Flux VS Ambient Temperature



Peak Wavelength VS Ambient temperature



Label

Part NO： Product model

LOT NO：Instruction number

Spec NO： product

Date： Date

Bin No.：Class-Bin No.-Wavelength code

Q’ty： Quantity

IF（mA）：Forward current

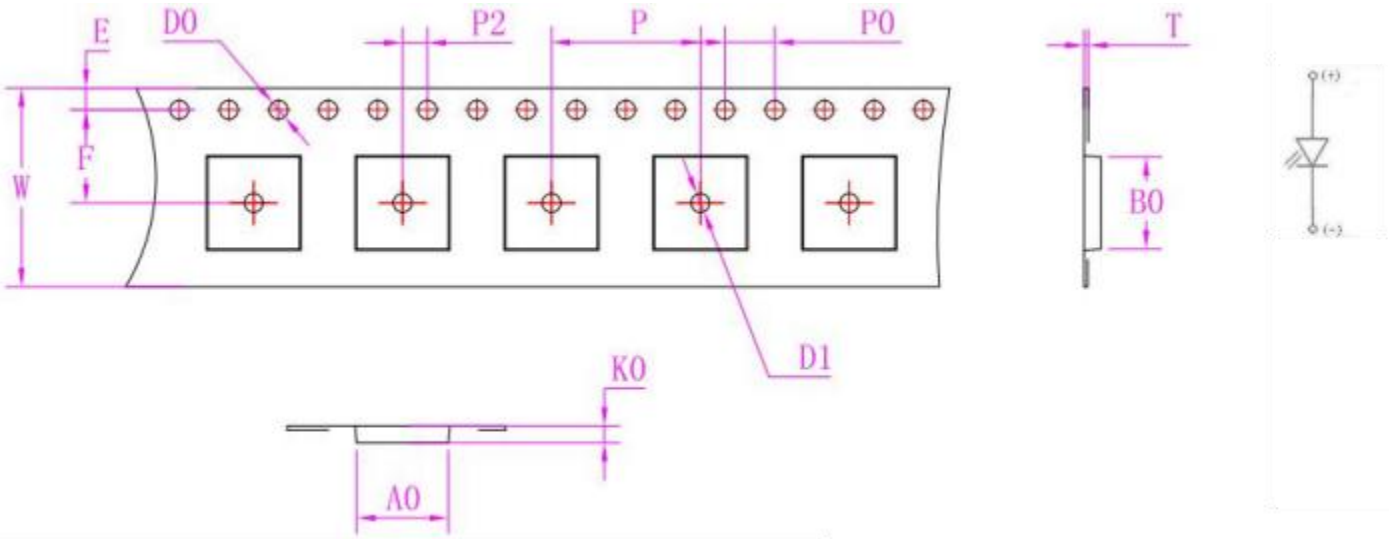
VF（V）：Forward voltage

Φ（mW）： Radiant flux

λp(nm)： Peak Wavelength

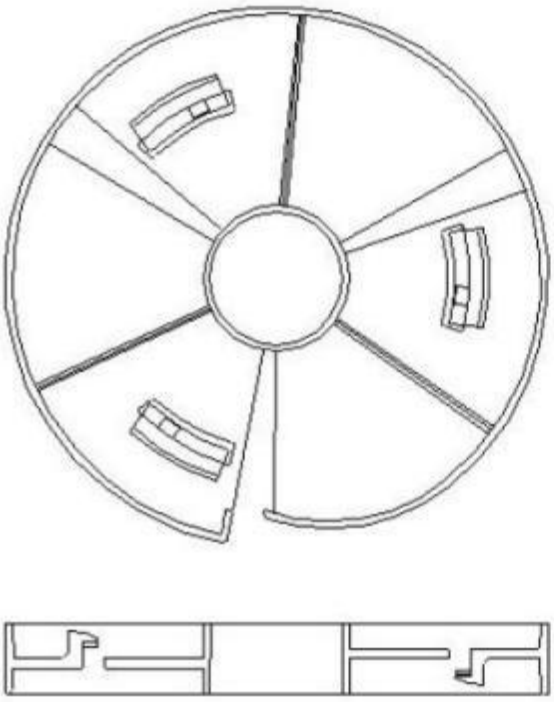
◆ Shipping package style

Tapping dimension package specification



GENERAL TOLERANCE		Designed	Checked	Approved
X. ±0.20	X. ±2°	LM ZENG	BL HE	GAO Q
.X ±0.15	.X ±1°			
.XX±0.10	.XX±0.5°	18.07.09	18.07.09	18.07.09

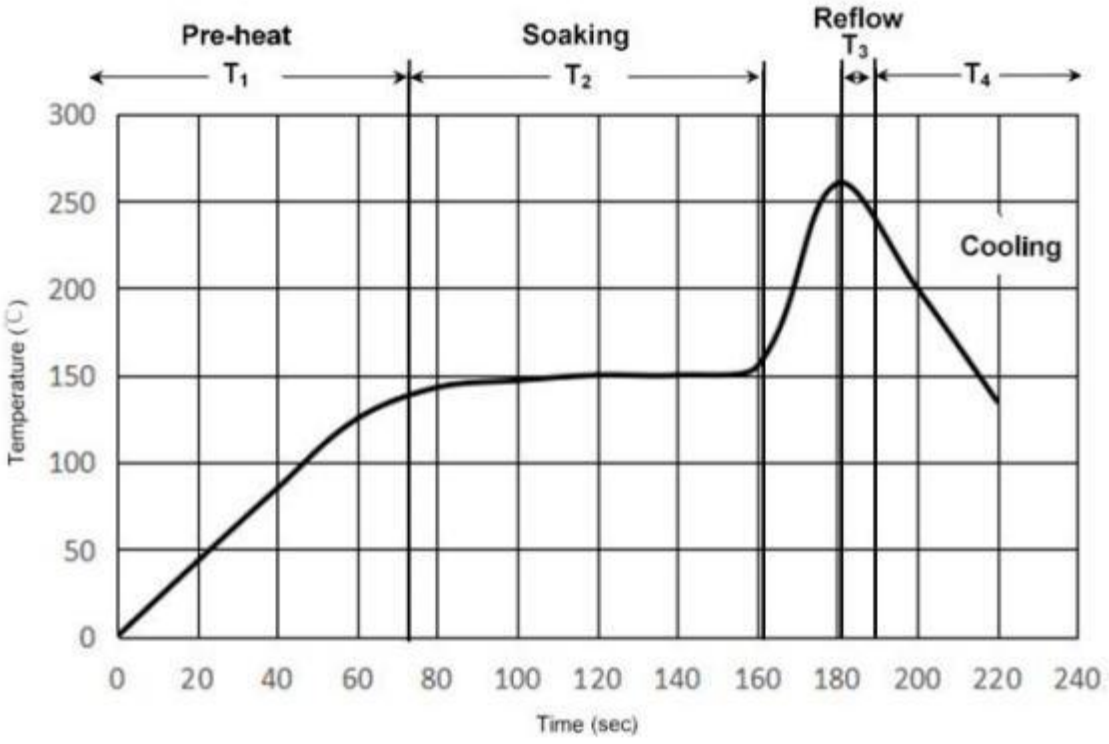
Reel packaging



Available Reel Sizes(mm)		
Tape Width	B±0.5mm	W+1mm
12mm	Ø100mm	12.5mm

◆ SMT Reflow Soldering Instructions SMT

Solding recommend soldering conditions



T1	Ramp up rate	1.0-3.0 ℃/ sec
	Pre-heat time	50-80 sec
T2	Soakoing temperature	155-185℃
	Dwell time during soaking	60-120 sec
T3	Reflow temperature	250~260℃
	Reflow time	Max 5 sec
	Ramp uo rate during reflow	1.2-2.3 ℃/ sec
T4	Cooling rate	1.0-6.0 ℃/ sec

Note: Suggest using $Sn_{96}Ag_3Cu_{0.5}$ lead free solder
Use alcohol cleaning solvents such as isopropyl alcohol to clean the LED if necessary

◆ Cautions on Use

The product must be handled with care, it is strictly forbidden to fall, and it is strictly forbidden to touch the product, especially the light-emitting surface of the lamp.

Do not use a power supply that does not meet the requirements for driving.

The product should not be lit for a long time in a high temperature and closed environment in an environment within the rated temperature range.

Do not expose the LED directly to high humidity. It should be waterproof and moisture-proof.

The light-transmissive window on the light-emitting side of the product should be made of high-purity quartz glass plate, which can effectively pass 270~285 nm ultraviolet light.

Reflow soldering should not be done more than two times. Please refer to the instruction manual for reflow temperature

This product produces deep ultraviolet rays when energized. This kind of ultraviolet light can cause damage to human skin and eyes, and should be avoided without direct protection. The human body is directly exposed to deep ultraviolet rays.

It is strictly forbidden to look directly at the deep ultraviolet light emitted by this product.

The machine operator must bring an electrostatic ring.

The machine must be grounded.