

# TX-3535W5FC120-OGVCND34-C03H90

## PRODUCT SPECIFICATION

### Features:

- ◆ E cell e a ii g hea f LED chi e a i g de 1200 A.
- ◆ High i
- ◆ UV.
- ◆ E ca la ed ae ial ae e i e all ce ified a d ee e i e al e i e e .

### Chip Material:

- ◆ GaN

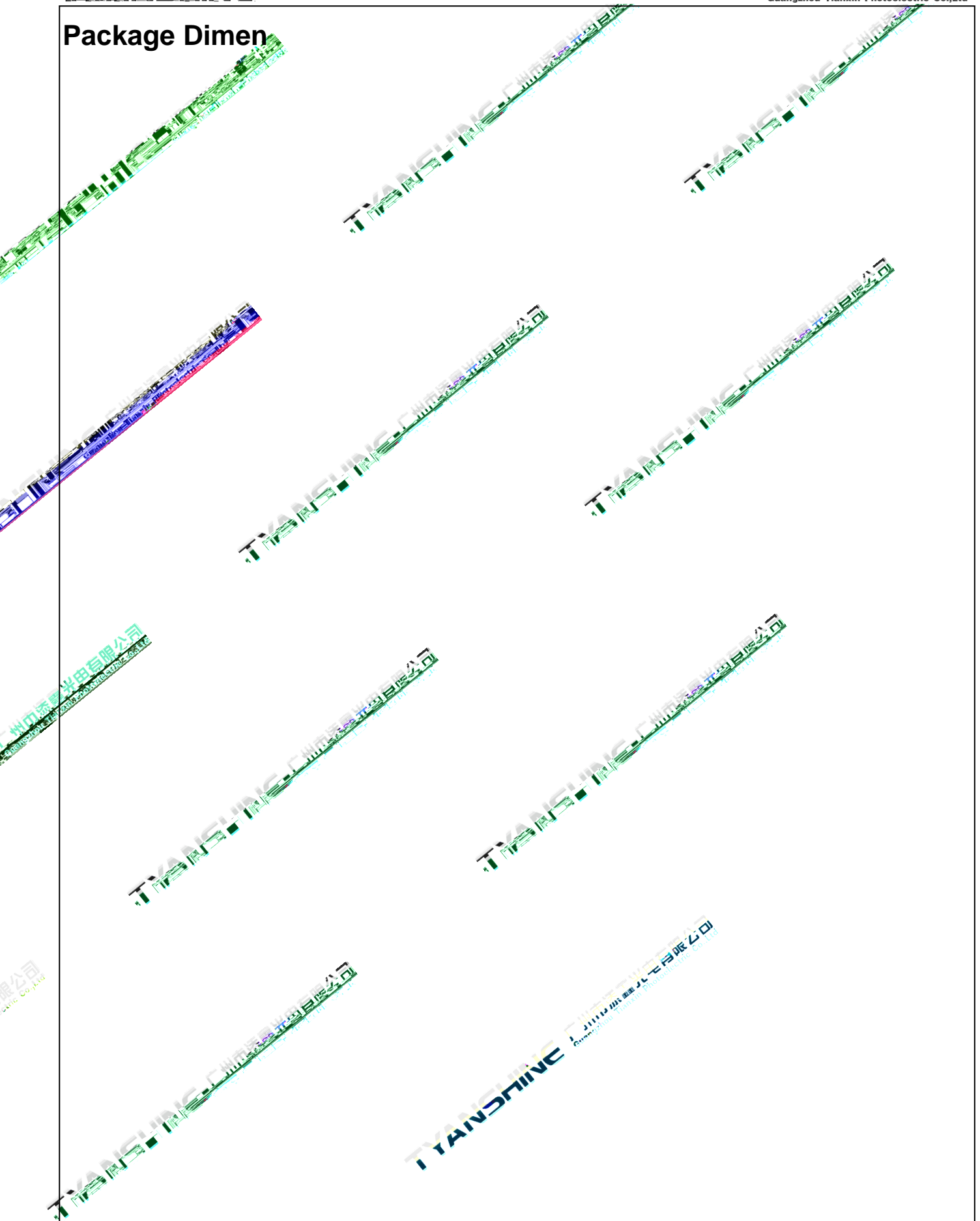
### Emitting Color:

- ◆ hi e

### Applications:

- ◆ A ilia ligh i g
- ◆ A chi ec al ligh i g
- ◆ Ge e al Ligh i g

Package Dimen



### Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbol	Ratings	Unit
Forward Current	IF	1200	A
Reverse Voltage	VR	Not designed	V
Power Dissipation	PD	5	W
Junction Temperature	Tj	150	°C
Electrostatic Discharge Threshold (ESD)	ESD	ESD sensitive device	V
Storage Temperature	Tg	-40 +70	°C
Operating Temperature	T	-30 +100	

**Notes:**

1. Specific area subject to change in future.
2. The data here is specific to the reference conditions and should be used as a guide only.
3. Protection of ESD: STATIC SHIELD. Electrostatic discharge protection for the LED. It is recommended to use anti-static gloves when handling the LED. All devices are sensitive to electrostatic discharge.

### Electrical Optical Characteristics (Tc=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Lum. Intensity	FI		140	160		l
Correlated Color Temperature	CCT		2871	3000	3130	K
Spectral Line Half-Width	$\Delta\lambda$	If=700 A	139	144	149	
Forward Voltage	Vf		2.7	3.0	3.4	V
Viewing Angle at 50% IV	$2\theta_{1/2}$			120		Deg
Reverse Current	IR					A
Thermal Resistance Junction Case	Rj-c			6.4		K/W
Temperature Coefficient of Voltage	VΔF/T	If=700 A		-2.9		V/°C
Color Rendering Index	Ra		90	92.5		

**White light Color coordinate filing (IF=0.7A)**

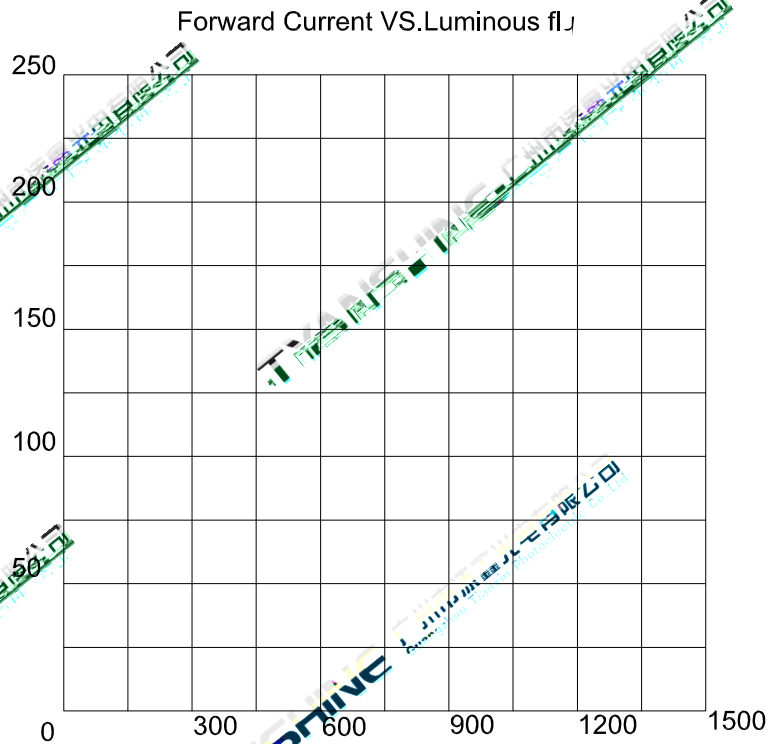
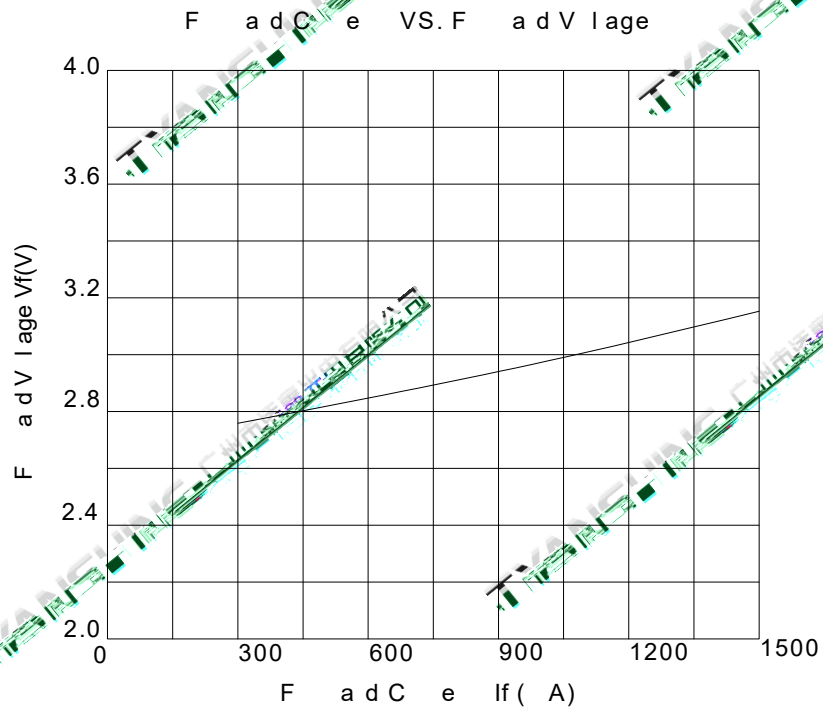
Grade	TC	P1		P2		P3		P4	
		X1	Y1	X2	Y2	X3	Y3	X4	Y4
7B3	3030K	0.4322	0.4096	0.4364	0.4188	0.4430	0.4212	0.4385	0.4119
7B4		0.4281	0.4006	0.4322	0.4096	0.4385	0.4119	0.4342	0.4082
7A3	3130K	0.4242	0.3919	0.4281	0.4006	0.4342	0.4028	0.4300	0.3939
7A4		0.4203	0.3833	0.424	0.3919	0.4300	0.3939	0.4259	0.3853
7C2	2950K	0.4385	0.4119	0.4430	0.4212	0.4496	0.4236	0.4449	0.4141
7C1		0.4342	0.4028	0.4385	0.4119	0.4449	0.4141	0.4403	0.4049
7D2	3030K	0.4300	0.3939	0.4342	0.4028	0.4403	0.4049	0.4359	0.3960
7D1		0.4259	0.3853	0.4300	0.3960	0.4359	0.3960	0.4316	0.3873
7C3	2871K	0.4449	0.4141	0.4496	0.4236	0.4562	0.4260	0.4513	0.4164
7C4		0.4403	0.4049	0.4449	0.4141	0.4513	0.4164	0.4465	0.4071
7D3	2950K	0.4359	0.3960	0.4403	0.4049	0.4465	0.4071	0.4418	0.3981
7D4		0.4316	0.3873	0.4359	0.3960	0.4418	0.3981	0.4373	0.3893

**Notes:**

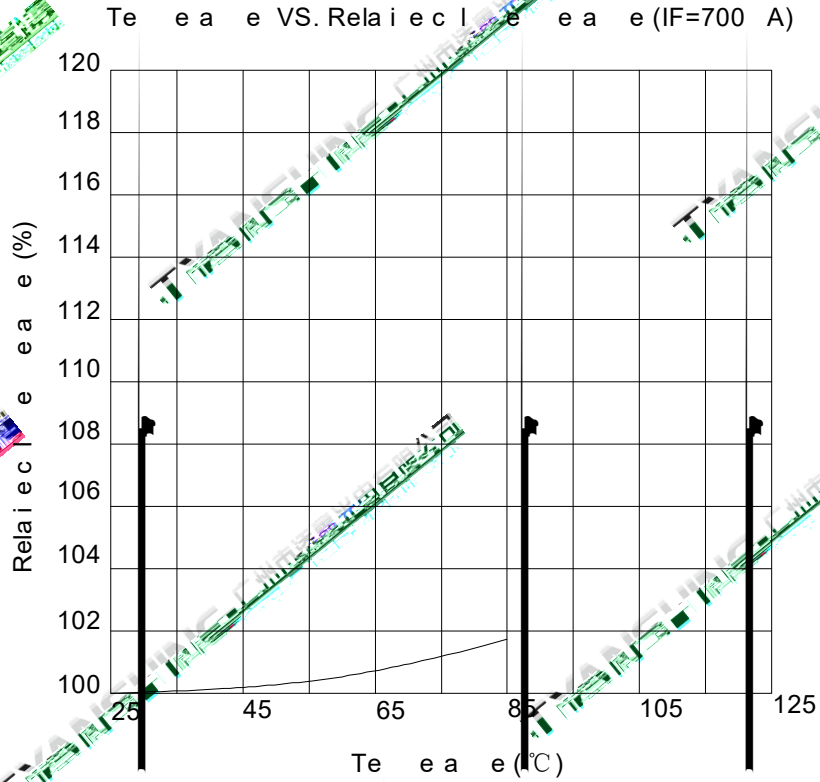
1. L i i e i i e a e d i h a l i g h e a d f i l e c b i a i h a a i a e h e C I E e e e e c e .
2.  $1/2$  i h e f f a i a g l e a h i c h h e l i i e i i h a f h e a i a l l i e i .
3. L i f l e a e e l e a c e : 15% .
4. F a d l a g e e a e e l e a c e : 0.15V .

# Typical Electrical/Optical Characteristics Curves

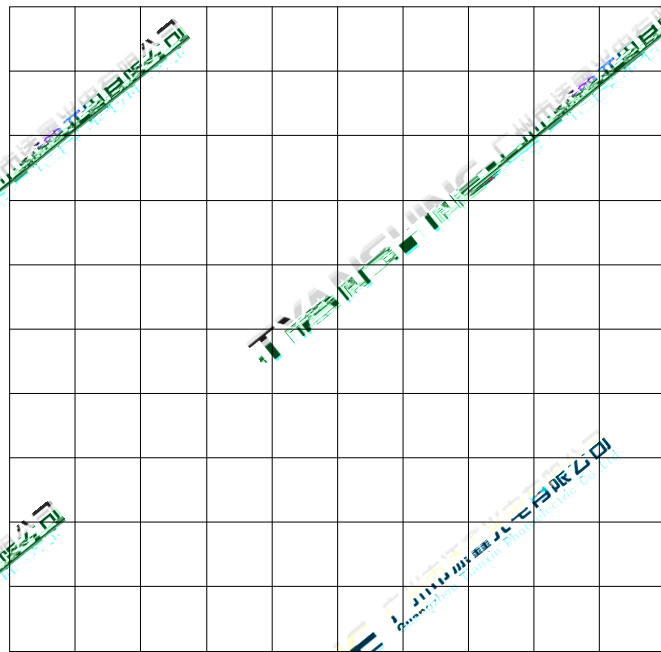
(25°C Ambient Temperature Under Ohmic Condition)







Temperature VS. Relative Humidity







# Usage Precautions

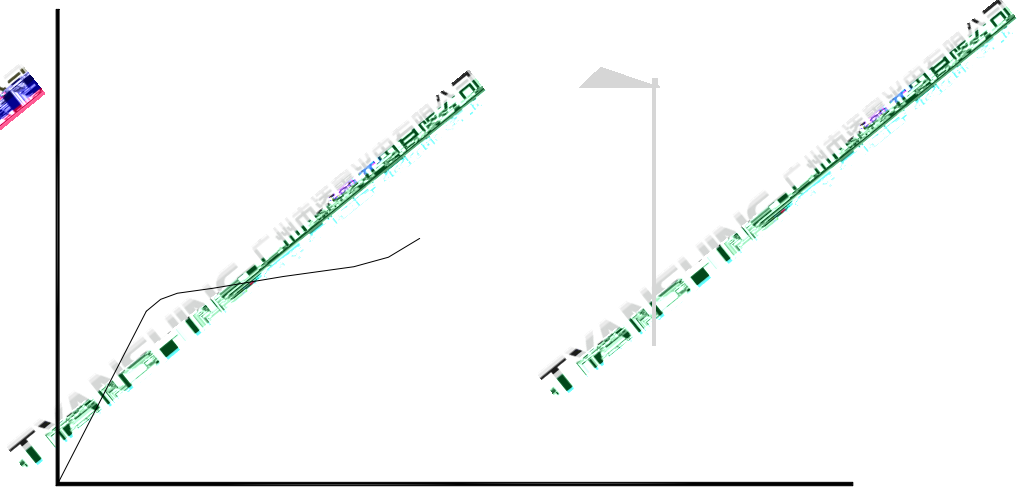
## Storage Environment Condition

Temperature: 5°C ~ 30°C (41°F ~ 86°F)

Humidity: 60% RH Max.

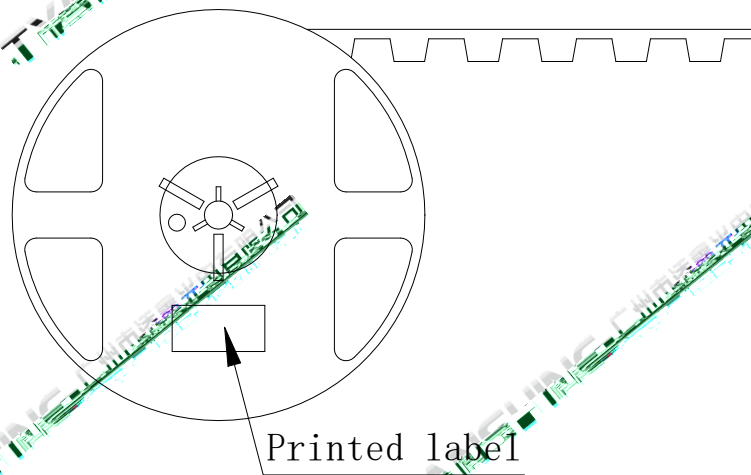
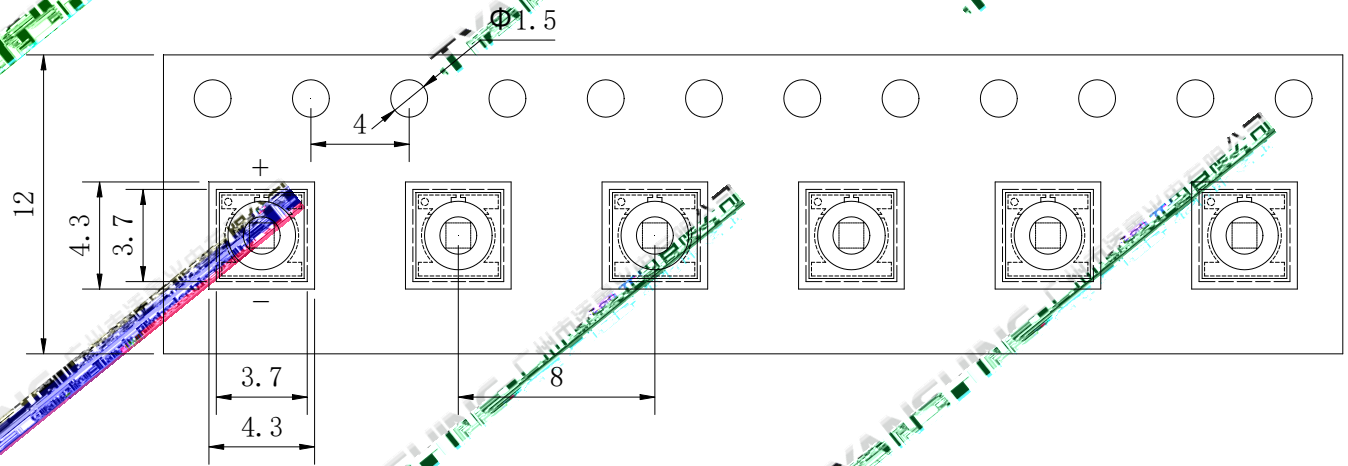
## Soldering Condition

Use the correct soldering method as shown in the figure.



# Dimensions For Cannulation And Packaging

Quantity:1000 PCS



**Notes:**

1. All dimensions are in millimeters.
2. The tolerance is ±0.20mm unless otherwise specified.
3. The device is packaged in a carrier tape, the height of the LED light-emitting area, and the height of the LED light-emitting area are all flexible for the carrier.