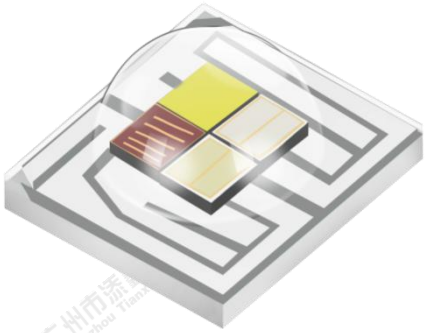
TX-3535RGBW4FC120-OGVCND34-02BH80

PRODUCT SPECIFICATION



Features:

◆Excellent transiting heat from LED chip operating under 400mA
◆High luminous output
◆No UV

Chip Material:

◆Red: AlGaInP
◆Green:GaInN
◆Blue: GaInN
◆White: GaInN

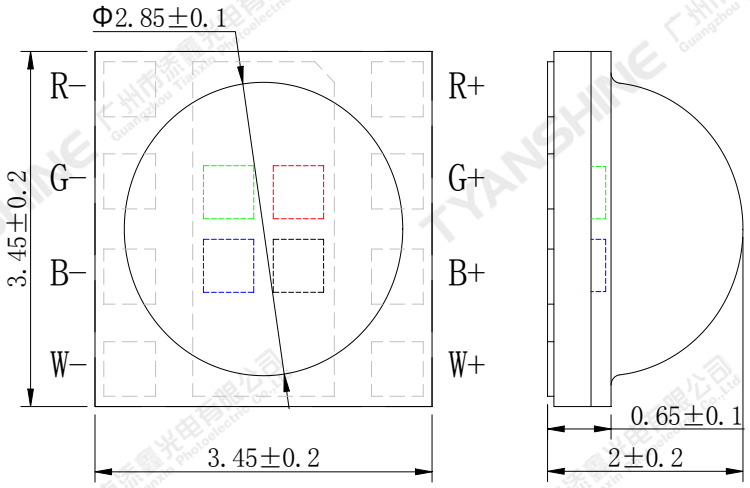
Emitting Color:

◆Red
◆Green
◆Blue
◆White

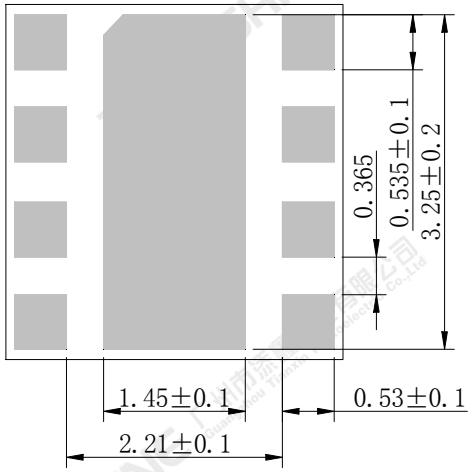
Applications:

◆Portable flashlight
◆Garden lighting
◆General lighting

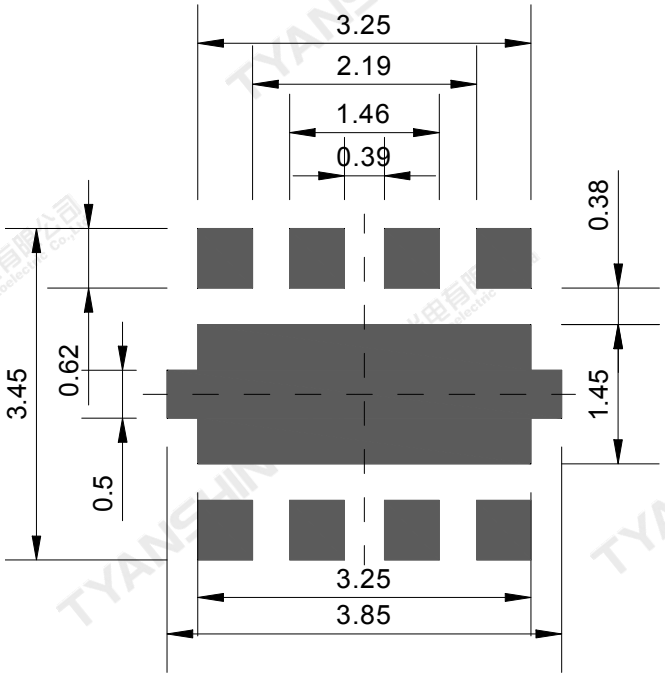
Package Dimensions:



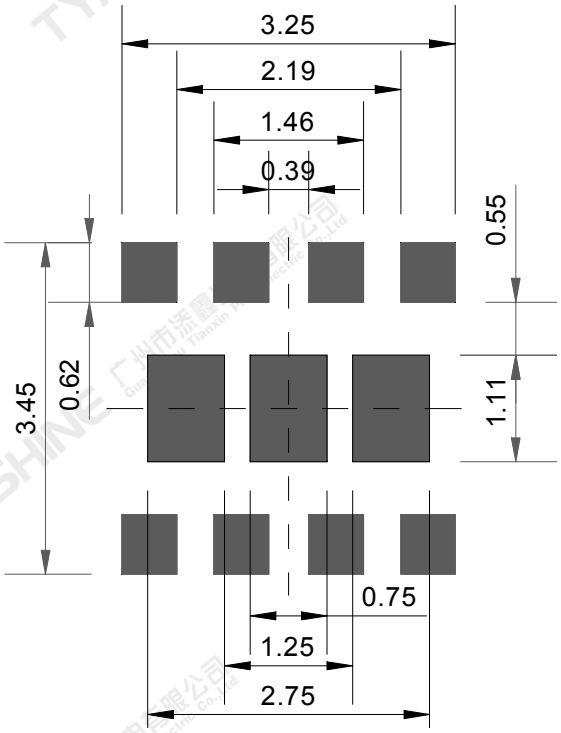
Top view Side view



Bottom view



Recommended solder pad



Recommended stencil pattern

Notes:

1.All dimensions are in millimeters .

2.Tolerances unless otherwise mentioned are ±0.1mm .

Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol		Max Ratings	Unit
Forward Current	IF		400	mA
Reverse Voltage	V_R		Not designed for reverse operation	V
Power Dissipation	P_D	R	875	mW
		G	1260	
		B	1260	
		W	1190	
Junction Temperature	Tj	R	115	℃
		G	150	
		B	150	
		W	150	
Electrostatic Discharge Threshold (ESD)	ESD		2000	V
Storage Temperature	T_{stg}		-40~70	℃
Operation Temperature	T_{opr}		-30~100	

Notes:

1.Specifications are subject to change without notice.

2.The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.

3.Precautions for ESD:

STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

Electrical Optical Characteristics (Tc=25°C)

Parameter	Symbol	Condition	Emitting Color	Min.	Typ.	Max.	Units
Luminous Flux	φ_v	If=350mA	R	40	50	65	lm
			G	80	100	120	
			B	25	34	45	
			W	75	90	105	
Dominant Wavelength	λd		R	618	623	628	nm
			G	520	528	535	
			B	460	468	475	
Correlated Colour Temperature	CCT		W	3650	4000	4300	K
			W	5500	6000	6500	
Color Rendering Index	Ra		W	80	85	—	—
Peak-emission Wavelength	λp		R	625	630	635	nm
			G	516	525	530	
			B	456	465	471	
Spectral Line Half-Width	△λ		R	15	20	25	nm
			G	30	35	40	
			B	20	25	30	
			W	20	25	30	
Forward Voltage	V_f		R	2.0	2.3	2.6	V
			G	3.0	3.3	3.6	
			B	3.0	3.3	3.6	
			W	2.9	3.1	3.4	
Reverse Current	I_R	V_R=5V	R	—	—	5	μA
			G	—	—	5	
			B	—	—	5	
			W	—	—	5	
Viewing Angle at 50％IV	$2\theta_{1/2}$	—	—	—	120	—	Deg
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	R	—	14	—	K/W
			G	—	14	—	
			B	—	14	—	
			W	—	14	—	
Temperature Coefficient of Voltage	V△F/T	—	R	—	-2.0	—	mV/℃
			G	—	-5.8	—	
			B	—	-1.6	—	
			W	—	-1.6	—	

Notes:

1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

2.$\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

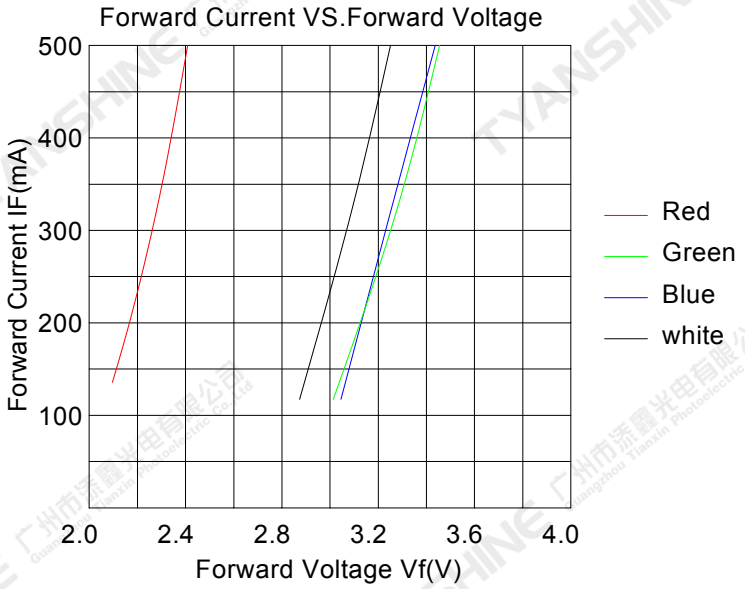
3.The dominant wavelength (λd) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

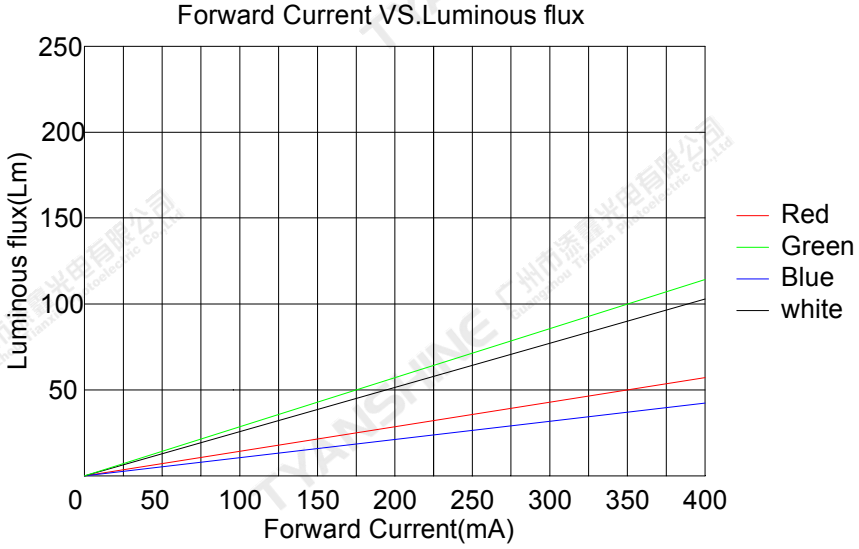
4.Luminous flux measurement tolerance:±15%.

5.Forward voltage measurement tolerance:±0.15V

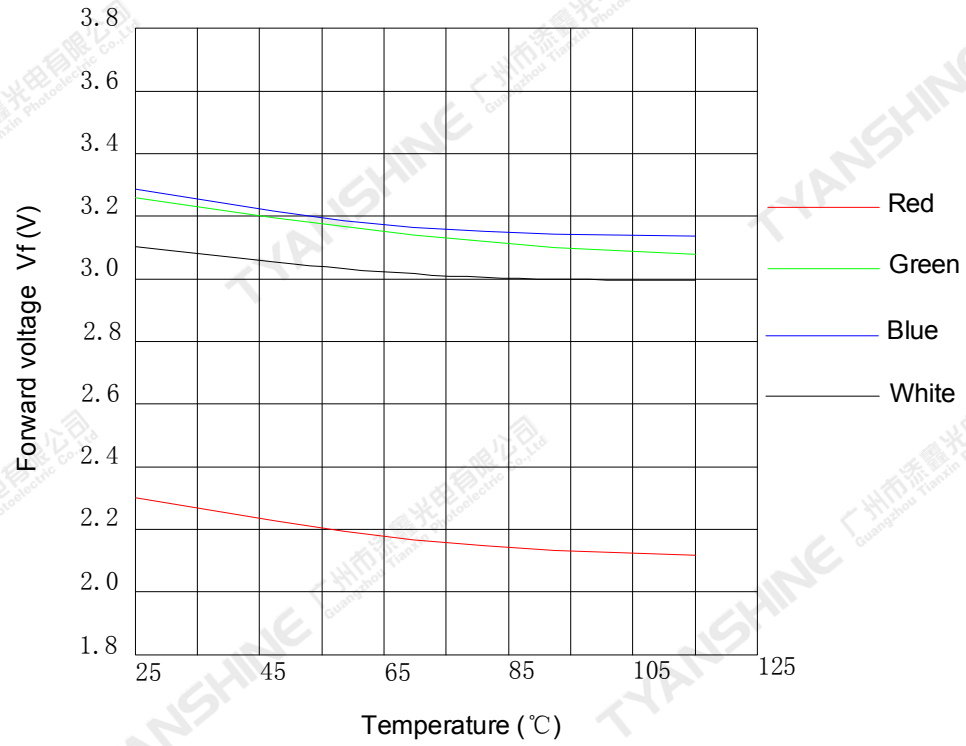
Typical Electrical/Optical Characteristics Curves

(25℃ Ambient Temperature Unless Otherwise Noted)

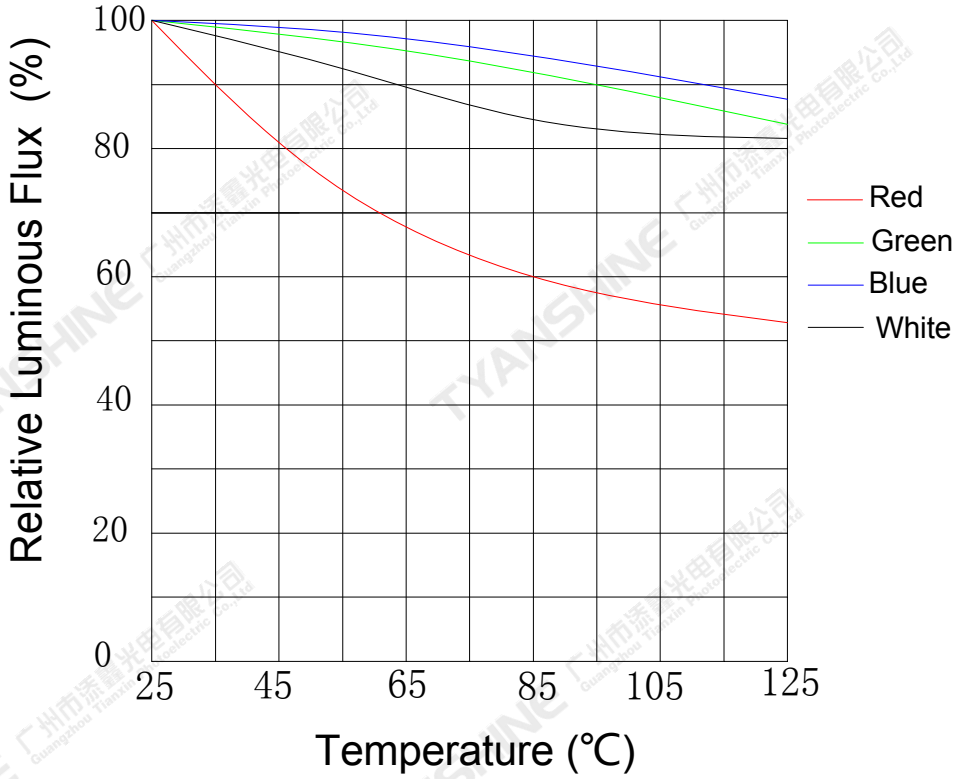


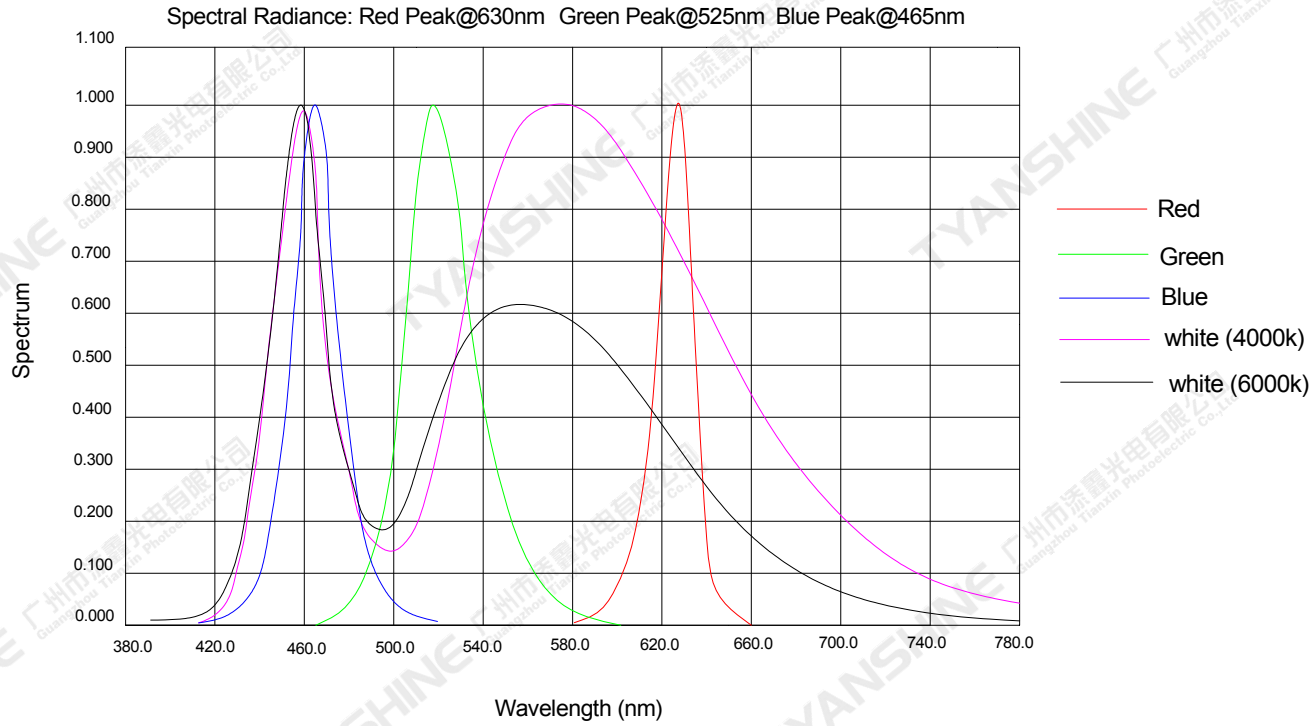


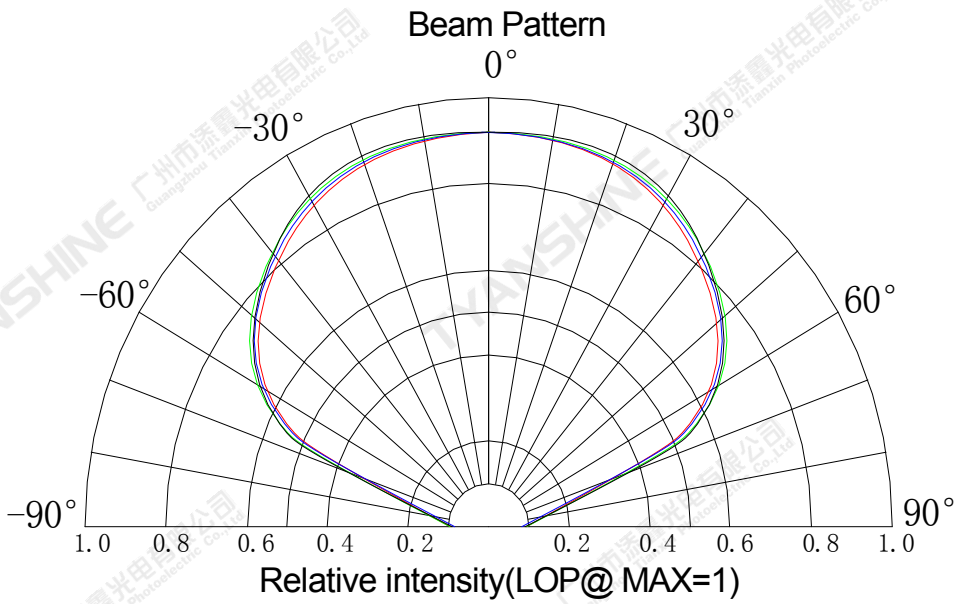
Temperature VS. Forward Voltage (IF=350mA)



Temperature VS. Relative Luminous Flux (IF=350mA)







Notes:

1. 2θ 1/2 is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.
2. View angle tolerance is ± 5°.

Usage Precautions

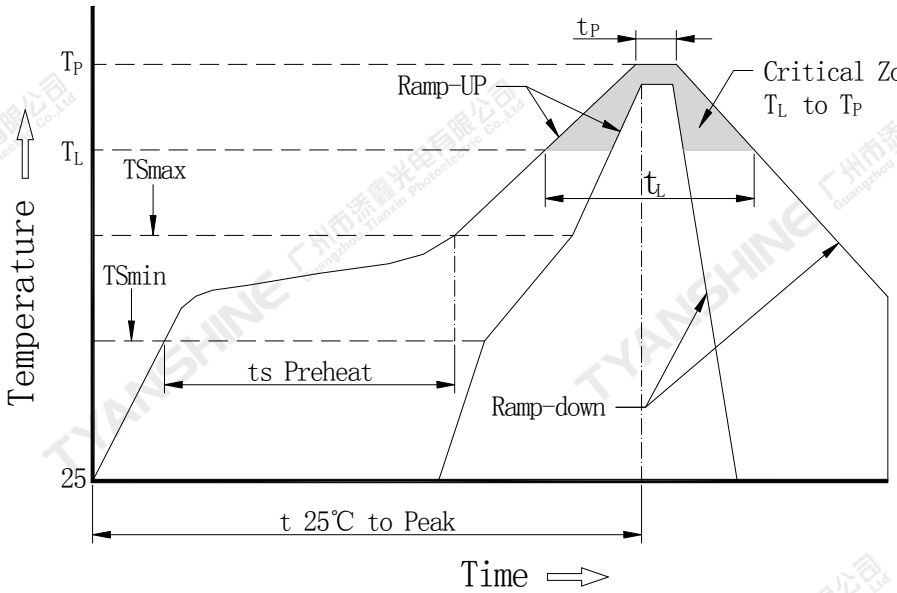
Storage Environment Condition

Temperature: 5℃ ~ 30℃ (41℉ ~ 86℉)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown to the under figure.



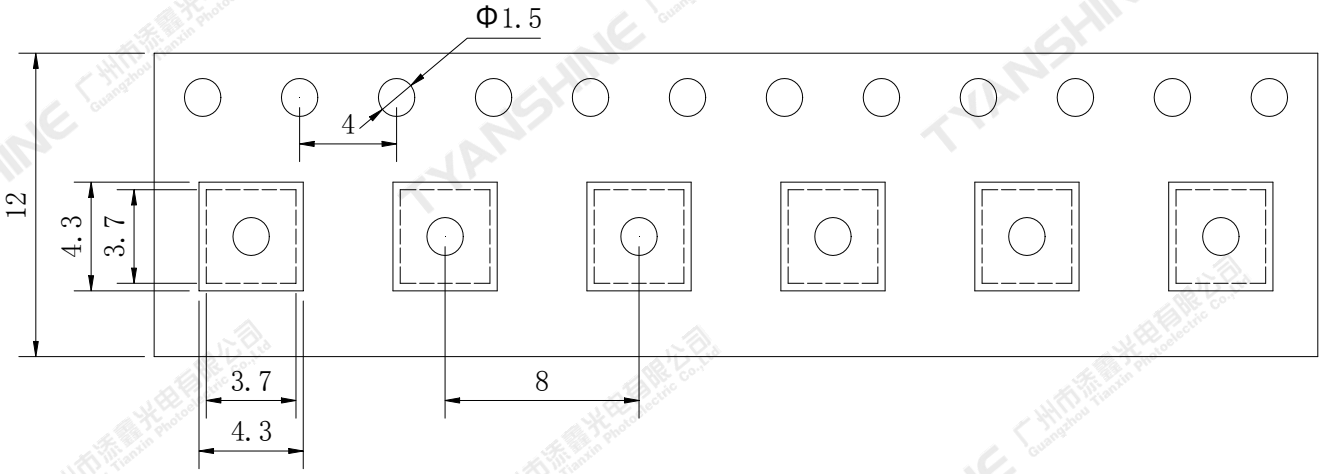
Profile Feature	Lead-Based Solder
Average Ramp-Up Rate (Ts_{max} to T_p)	3℃/second max.
Preheat: Temperature Min (Ts_{min})	100℃
Preheat: Temperature Max (Ts_{max})	150℃
Preheat: Time (Ts_{min} to Ts_{max})	60-120 seconds
Time Maintained Above: Temperature (T_L)	183℃
Time Maintained Above: Time (T_L)	60-150 seconds
Peak/Classification Temperature (T_P)	225℃
Time Within 5℃ of Actual Peak Temperature (T_P)	10-30 seconds
Ramp-Down Rate	6℃/second max.
Time 25℃ to Peak Temperature	6 minutes max.

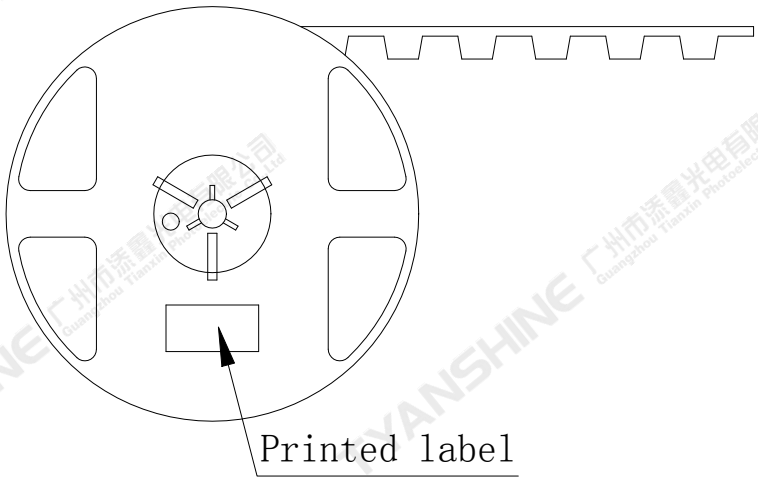
Note:

All temperatures refer to topside of the package, measured on the package body surface.

Dimensions For Cannulation And Packaging

Quantity: 1000PCS





Notes:

1. All dimensions are in millimeters.
2. Tolerances are ±2.0 mm unless otherwise noted.
3. The products are packaged together with silica gel, Transport, not to the weight of welding LED light-emitting area, As a result of the weight of LED light-emitting zone in the quality of, Irresponsible of the Company.