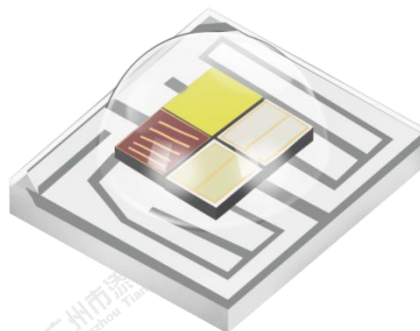


TX-3535RGBL4FC120-OGVCND34-03

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 350mA
- ◆High luminous output
- ◆No UV



Chip Material:

- ◆Red:AlGaInP
- ◆Green:GaInN
- ◆Blue:GaInN
- ◆Lime:GaInN

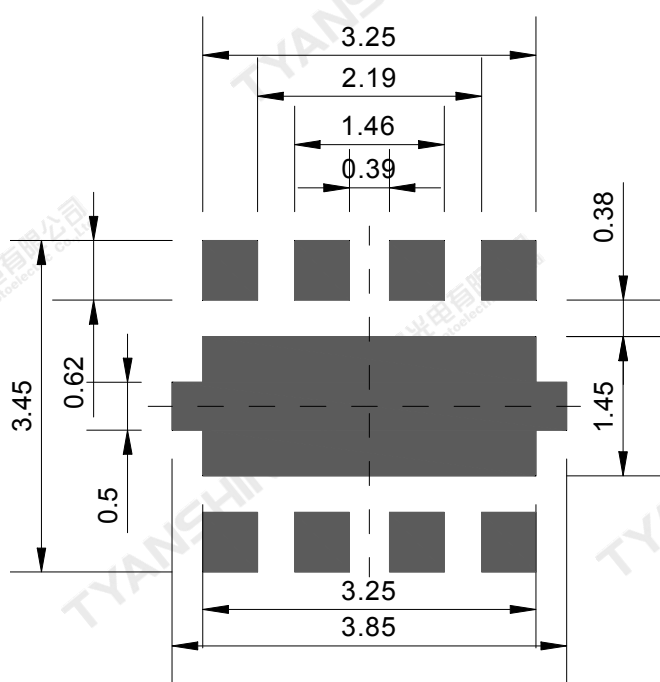
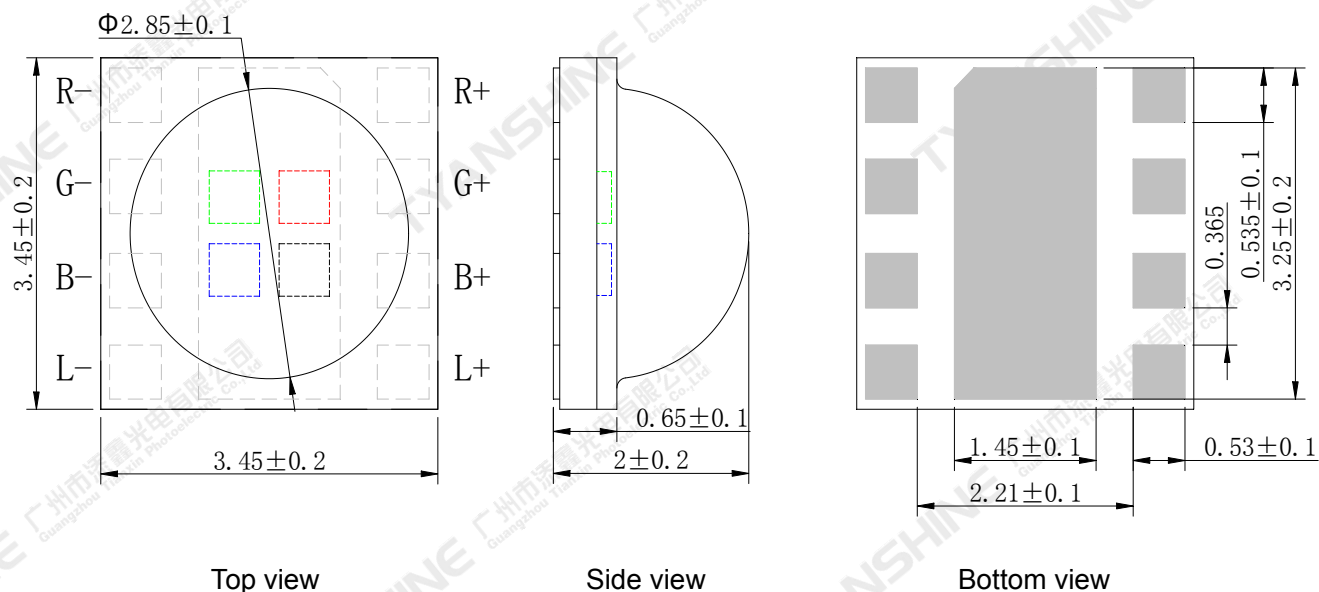
Lens Color:

- ◆Water clear

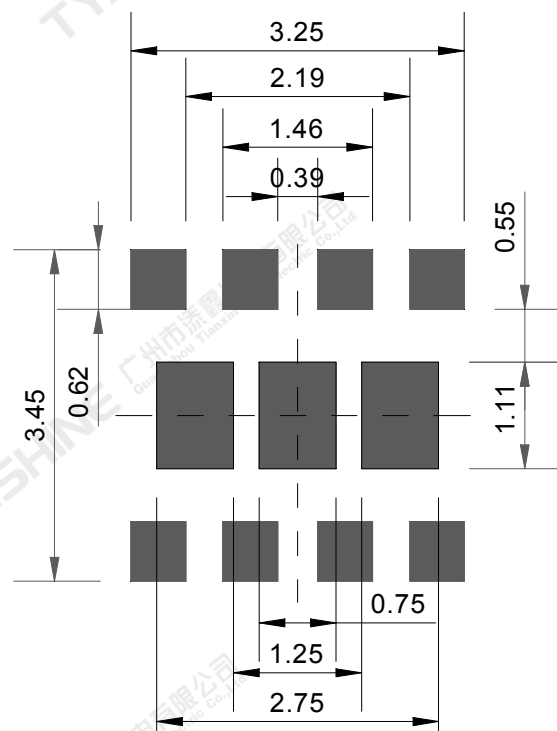
Applications:

- ◆Portable flashlight
- ◆Garden lighting
- ◆General lighting

Package Dimensions:



Recommended solder pad



Recommended stencil pattern

Notes:

1. All dimensions are in millimeters .
2. Tolerances unless otherwise mentioned are $\pm 0.1\text{mm}$.

Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol		Max Ratings	Unit
Forward Current	IF		350	mA
Reverse Voltage	VR		Not designed for reverse operation	V
Power Dissipation	PD	R	875	mW
		G	1225	
		B	1225	
		L	1190	
Junction Temperature	Tj	R	115	℃
		G	150	
		B	150	
		L	150	
Electrostatic Discharge Threshold (ESD)	ESD		ESD sensitive device	V
Storage Temperature	Tstg		-40~70	℃
Operation Temperature	Topr		-40~100	

Notes:

- Specifications are subject to change without notice.
- Under the stipulated Characteristics parameters above, the life span of the LED is more than 50,000hours.
- The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.
- 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.

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Electrical Optical Characteristics (Tc=25°C)

Parameter	Symbol	Condition	Emitting Color	Min.	Typ.	Max.	Units
Luminous Flux	ϕ_v	If=300mA	R	37	42	47	lm
			G	62	70	78	
			B	19	23	27	
			L	56	64	72	
Dominant Wavelength	λ_d		R	617	622	628	nm
			G	517	522	527	
			B	466	471	476	
			L	563	568	573	
Correlated Colour Temperature	CCT		L	3850	3980	4000	K
Peak-emission Wavelength	λ_p		R	627	632	638	nm
			G	512	517	522	
			B	463	468	473	
			L	547	551	556	
Spectral Line Half-Width	$\Delta\lambda$		R	12	16	20	nm
			G	30	35	40	
			B	23	28	33	
			L	106	116	126	
Forward Voltage	V_f		R	1.9	2.2	2.5	V
			G	2.9	3.2	3.5	
			B	2.9	3.25	3.5	
			L	2.8	3.1	3.4	
Reverse Current	I_R	$V_R=5V$	R	—	—	—	μA
			G	—	—	—	
			B	—	—	—	
			L	—	—	—	
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	—	15	—	
			B	—	15	—	
			L	—	15	—	
Temperature Coefficient of Voltage	$V\Delta F/T$	—	R	—	-2	—	mV/°C
			G	—		—	
			B	—		—	
			L	—		—	

White light Color coordinate filing (IF=300mA)

Grade	TC	P1		P2		P3		P4	
		X1	Y1	X2	Y2	X3	Y3	X4	Y4
J8	3850-4000K	0.4281	0.5391	0.4149	0.5389	0.4198	0.5499	0.4332	0.5500

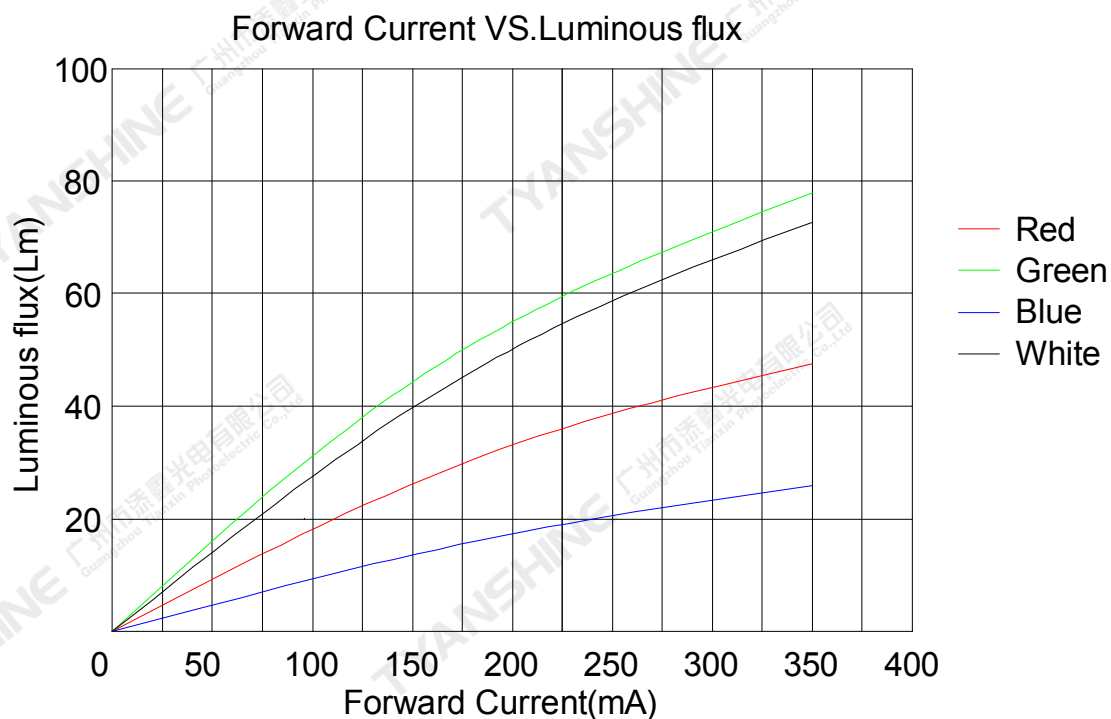
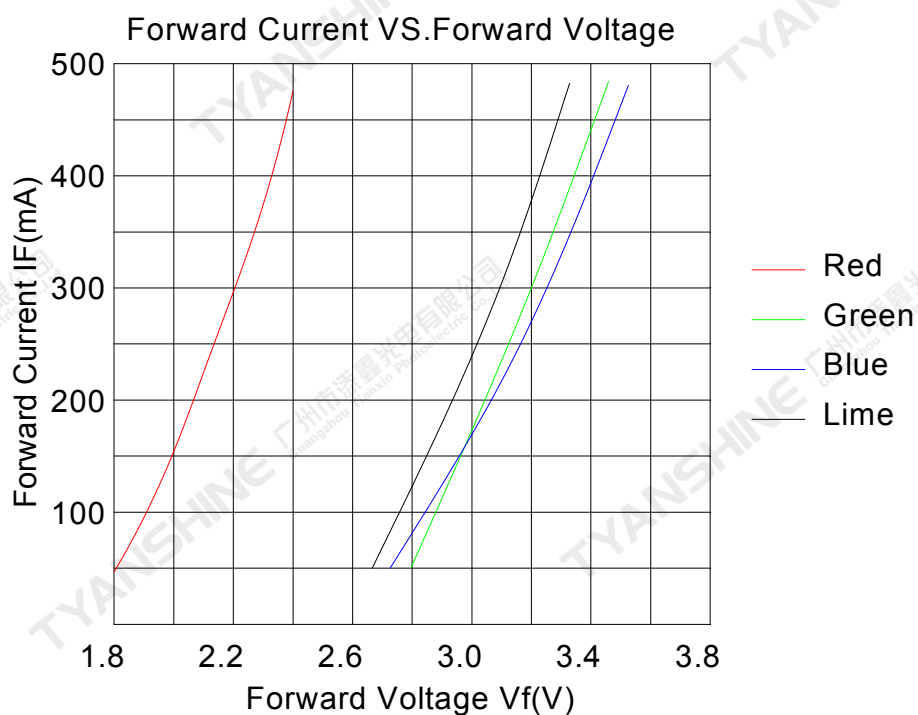
Notes:

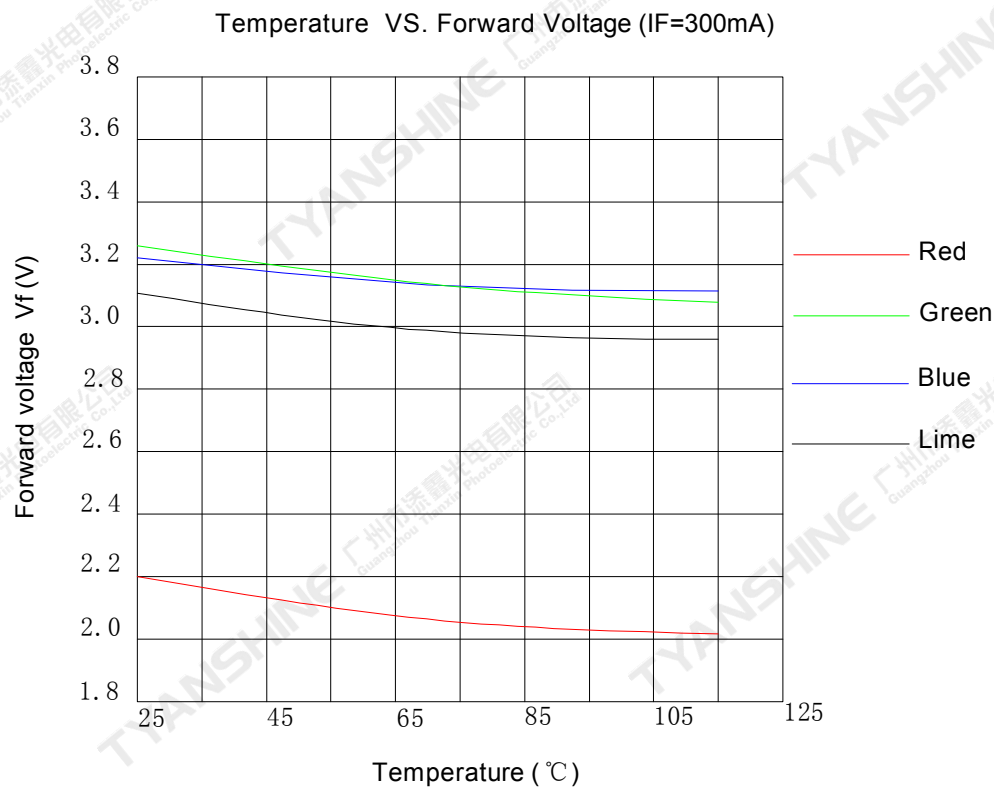
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- 4.Luminous flux measurement tolerance: $\pm 15\%$.
- 5.Forward voltage measurement tolerance: $\pm 0.15V$.

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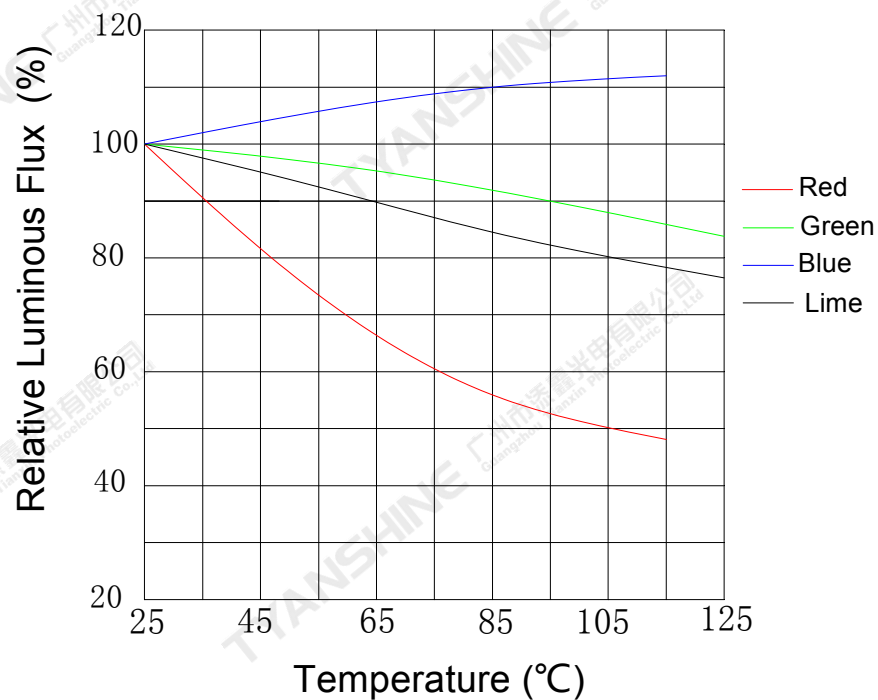
Typical Electrical/Optical Characteristics Curves

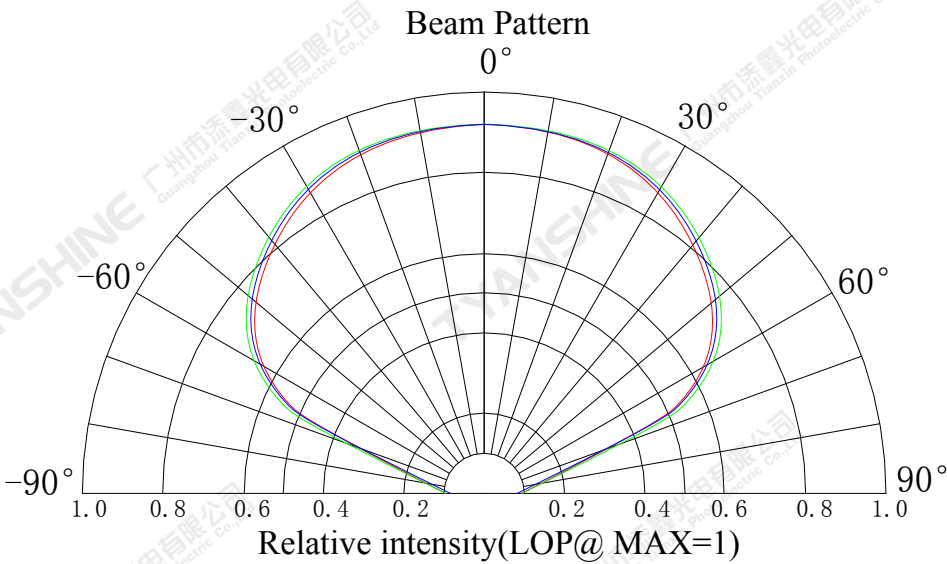
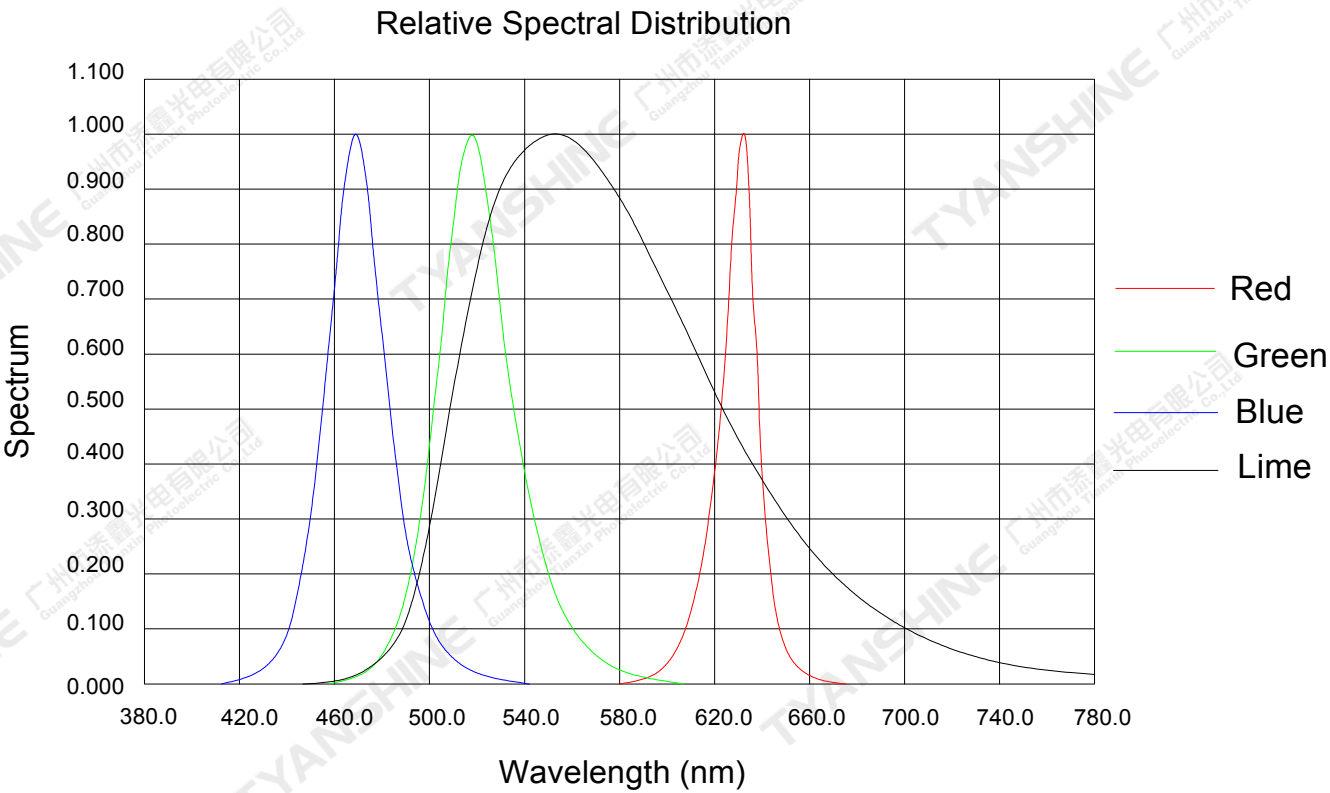
(25°C Ambient Temperature Unless Otherwise Noted)





Temperature VS. Relative Luminous Flux (IF=300mA)





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

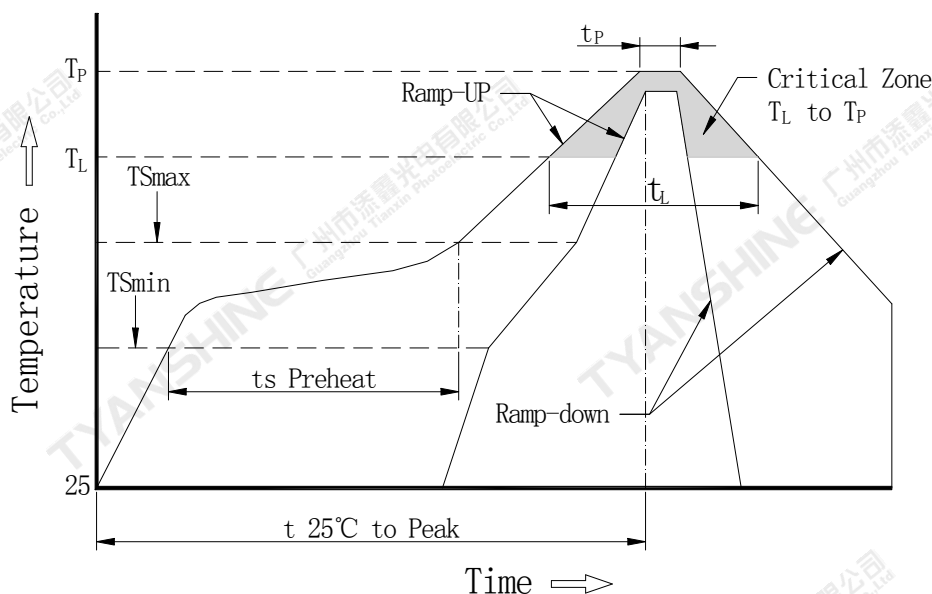
Storage Environment Condition

Temperature: 5°C ~ 30°C (41°F ~ 86°F)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown to the under figure.



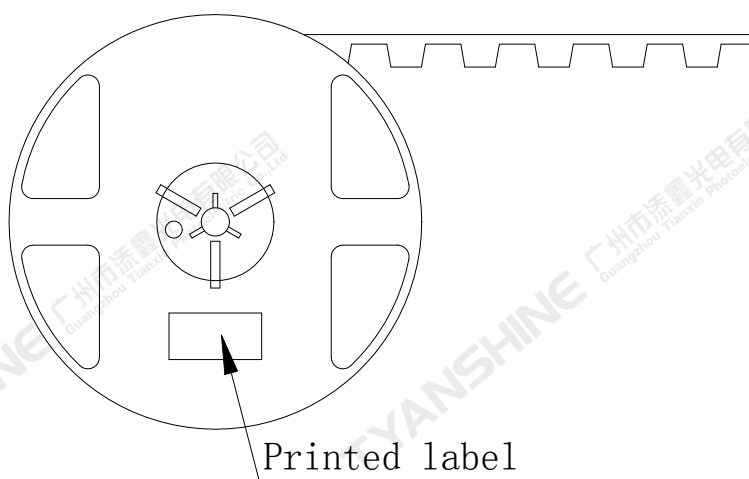
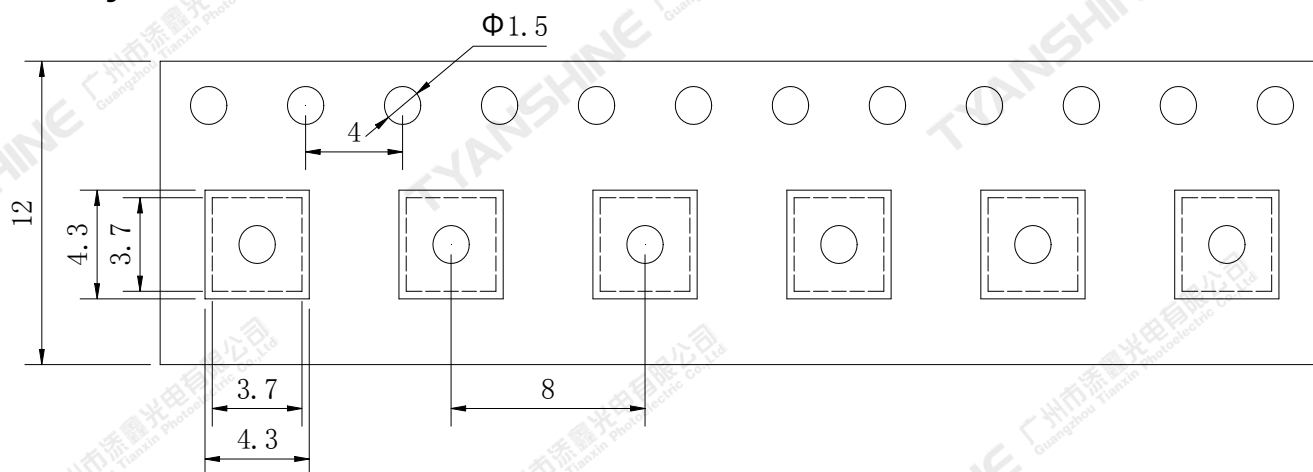
Profile Feature	Lead-Based Solder
Average Ramp-Up Rate (T_{Smax} to T_P)	3°C/second max.
Preheat: Temperature Min (T_{Smin})	100°C
Preheat: Temperature Max (T_{Smax})	150°C
Preheat: Time (T_{Smin} to T_{Smax})	60-120 seconds
Time Maintained Above: Temperature (T_L)	183°C
Time Maintained Above: Time (T_L)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

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