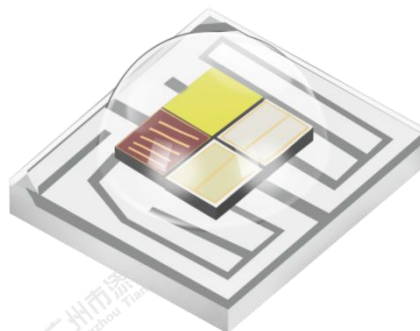


TX-3535RGBA4FC120-OGVCND34-03B

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
- ◆PC Amber:GaInN

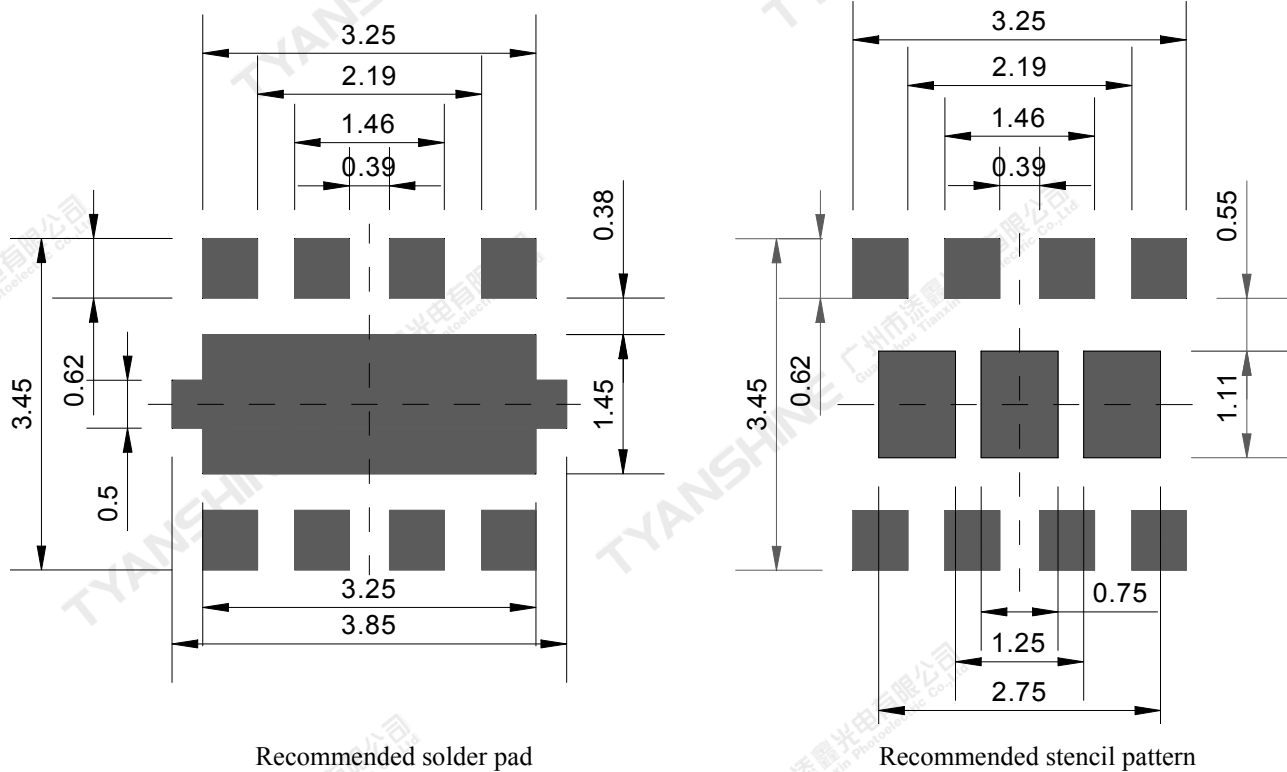
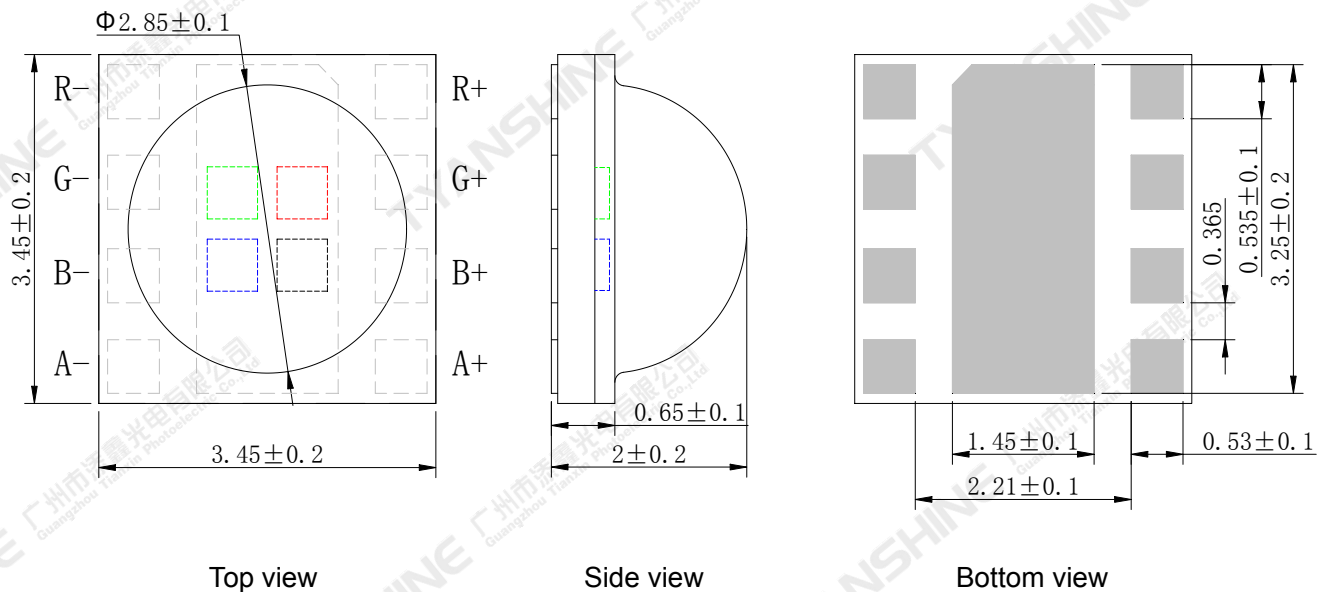
Lens Color:

- ◆Water clear

Applications:

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

Package Dimensions:



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	910	mW
		G	1190	
		B	1190	
		A	1190	
Junction Temperature	Tj	R	115	℃
		G	150	
		B	150	
		A	150	
Electrostatic Discharge Threshold (ESD)	ESD		ESD sensitive device	V
Storage Temperature	Tstg		-40~70	℃
Operation Temperature	Topr		-30~85	

Notes:

- Specifications are subject to change without notice.
- 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	40	48	55	lm
			G	60	72	80	
			B	15	28	32	
			A	35	42	50	
Dominant Wavelength	λ_d		R	620	625	630	nm
			G	520	525	530	
			B	456	470	475	
Correlated Colour Temperature	CCT		A	1780	1900	2030	K
Peak-emission Wavelength	λ_p		R	615	620	625	nm
			G	515	520	525	
			B	452	466	471	
Spectral Line Half-Width	$\Delta\lambda$		R	15	20	25	nm
			G	30	35	40	
			B	15	20	25	
			A	17	20	23	
Forward Voltage	V_f		R	2.0	2.3	2.5	V
			G	2.9	3.2	3.4	
			B	2.9	3.2	3.4	
			A	2.9	3.2	3.4	
Reverse Current	I_R		$V_R=5V$	R	—	—	—
		G		—	—	—	
		B		—	—	—	
		A		—	—	2.0	
Viewing Angle at 50 % IV	$2\theta_{1/2}$	—	—	—	120	—	Deg
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	R	—	8.2	—	K/W
			G	—		—	
			B	—		—	
			A	—	5.0	—	
Temperature Coefficient of Voltage	$V\Delta F/T$	—	R	—	-2	—	mV/℃
			G	—		—	
			B	—		—	
			A	—		—	

White light Color coordinate filing (IF=300mA)

Region	CCT Range(K)		X1	Y1	X2	Y2	X3	Y3	X4	Y4
	Min	Max								
W1	1950K	2030K	0.5453	0.4246	0.5377	0.4315	0.546	0.4386	0.5529	0.4317
W2			0.5529	0.4317	0.546	0.4386	0.5543	0.4457	0.5609	0.4391
W	1850K	1950K	0.5615	0.4231	0.5529	0.4317	0.5609	0.4391	0.5693	0.4308
W4			0.5546	0.4162	0.5453	0.4246	0.5529	0.4317	0.5615	0.4231
W3	1780K	1850K	0.5691	0.4156	0.5615	0.4231	0.5693	0.4308	0.578	0.422
W7			0.5614	0.41	0.5546	0.4162	0.5615	0.4231	0.5691	0.4156

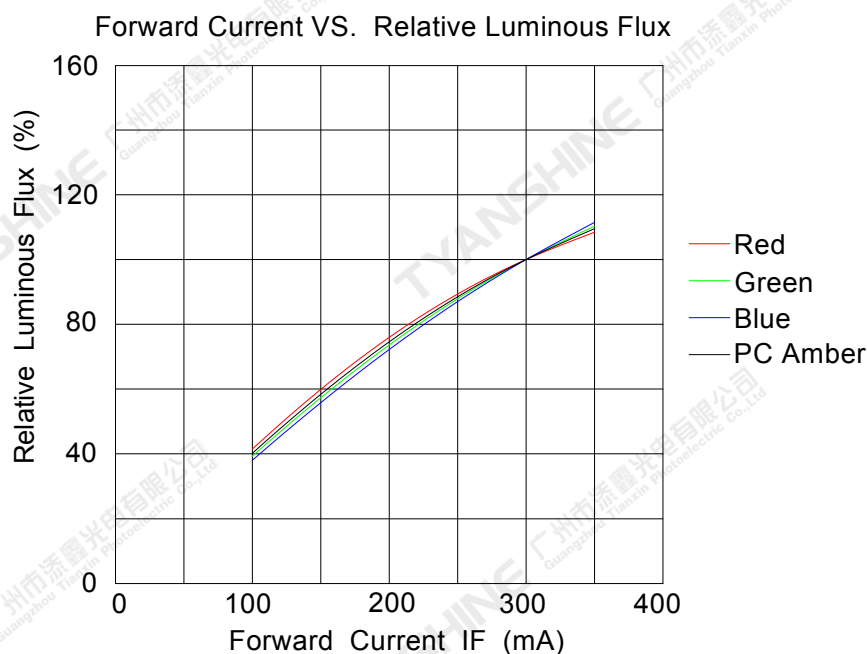
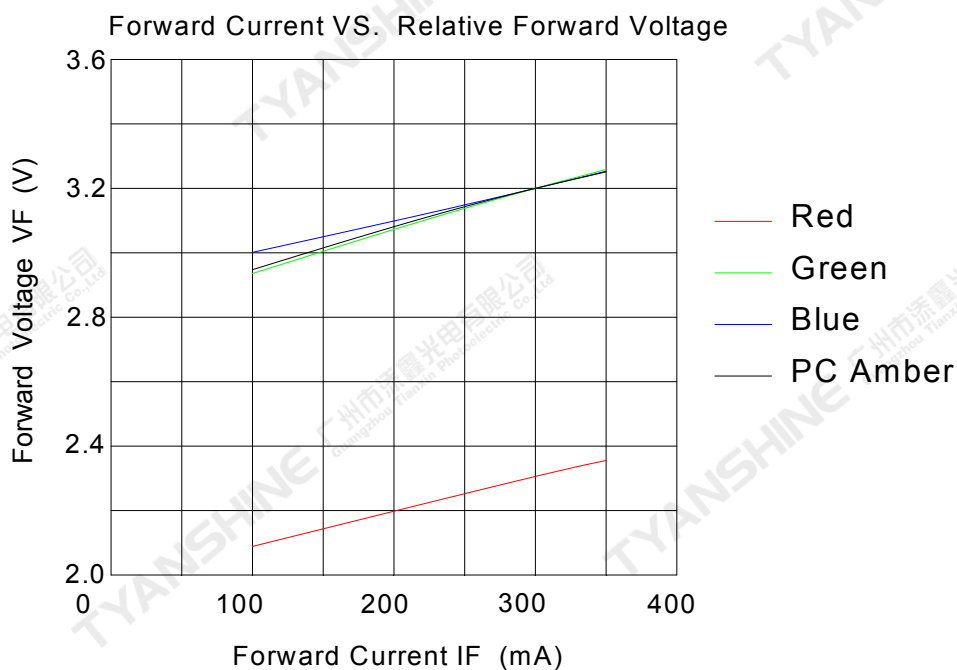
Notes:

- 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: $\pm 0.15V$.

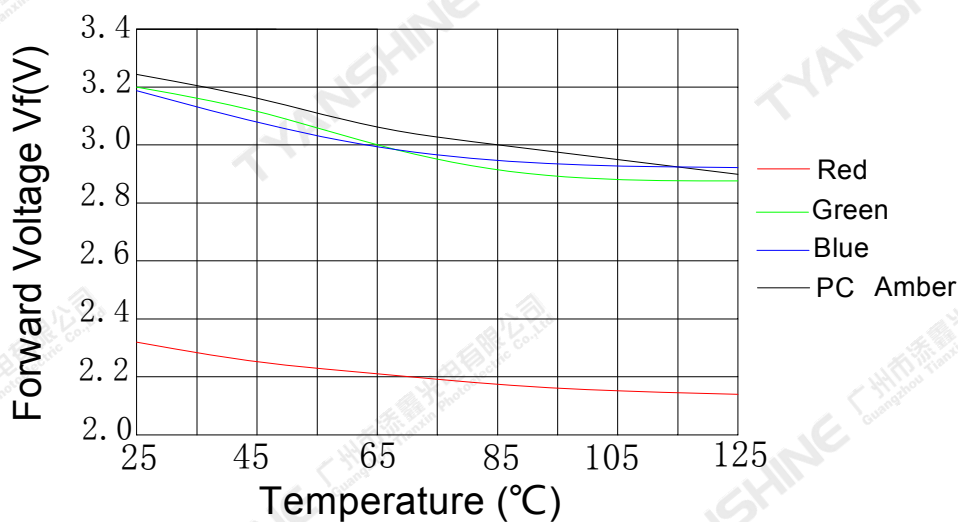
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Typical Electrical/Optical Characteristics Curves

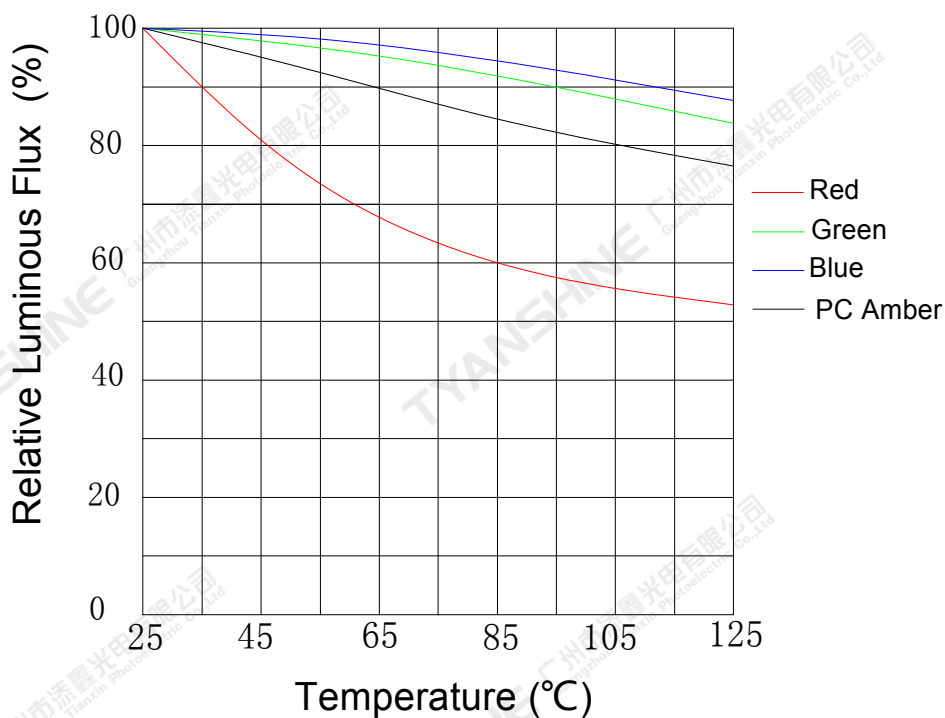
(25°C Ambient Temperature Unless Otherwise Noted)

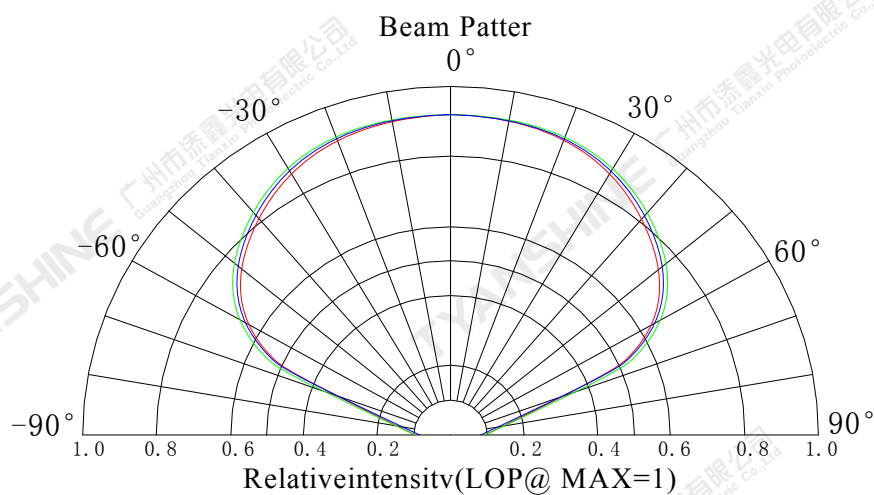
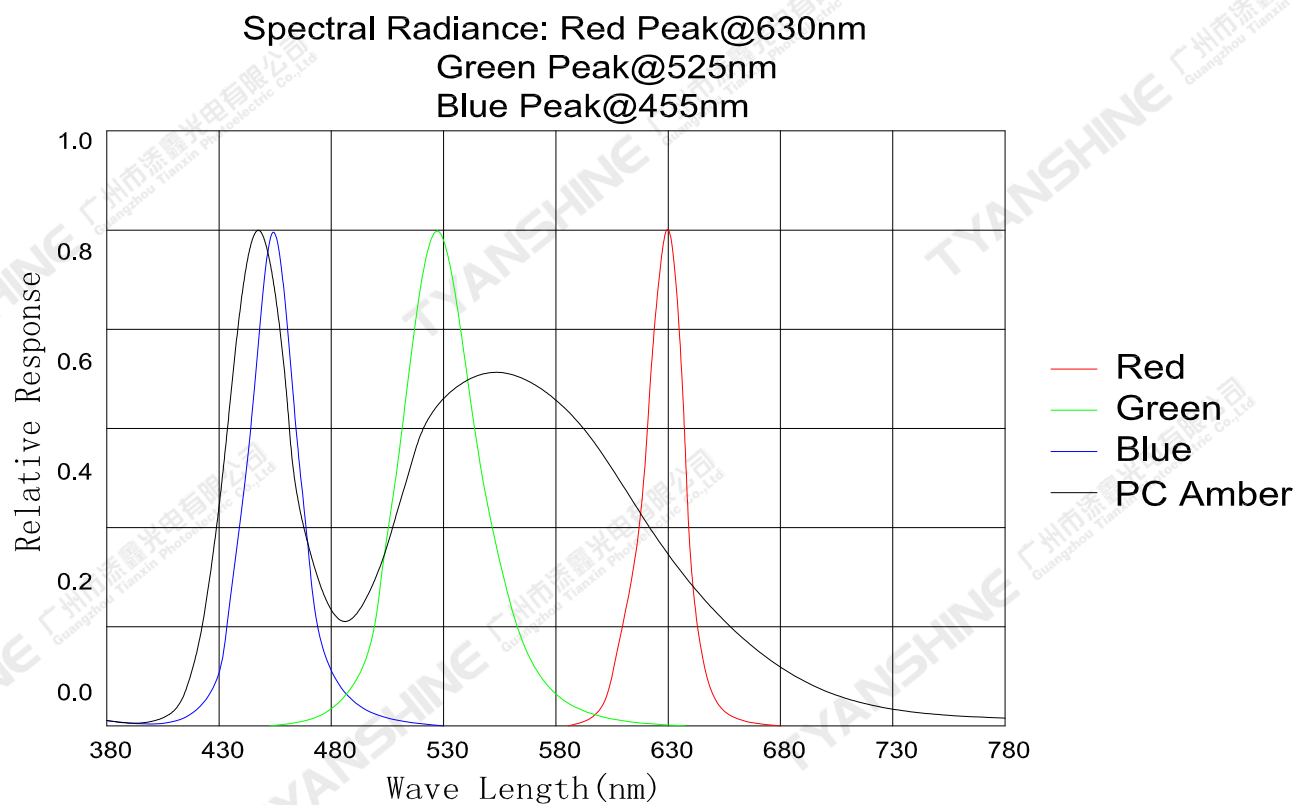


Temperature VS. Forward Voltage (IF=300mA)



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



**Notes:**

1. $2\theta_{1/2}$ is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.
2. View angle tolerance is $\pm 5^\circ$.

Usage Precautions

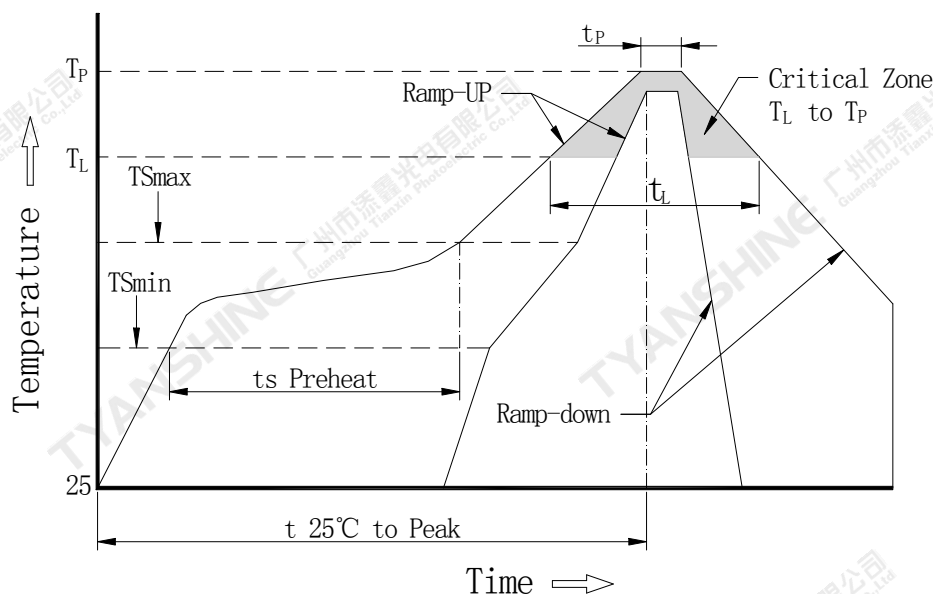
Storage Environment Condition

Temperature: 5°C ~ 30°C (41°F ~ 86°F)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown to the under figure.



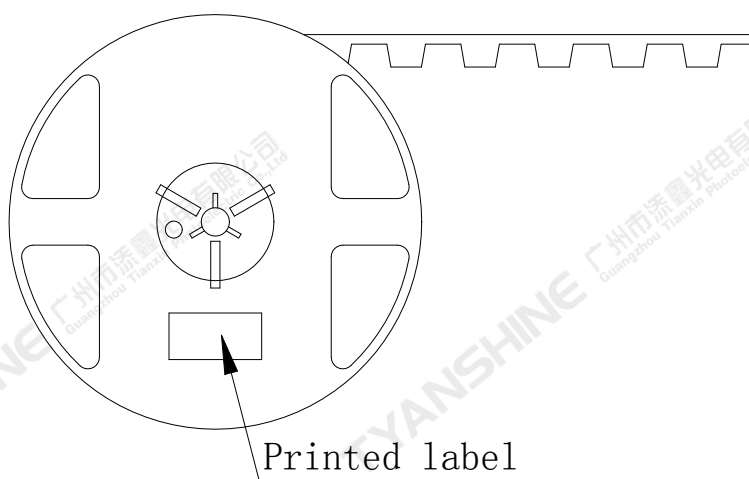
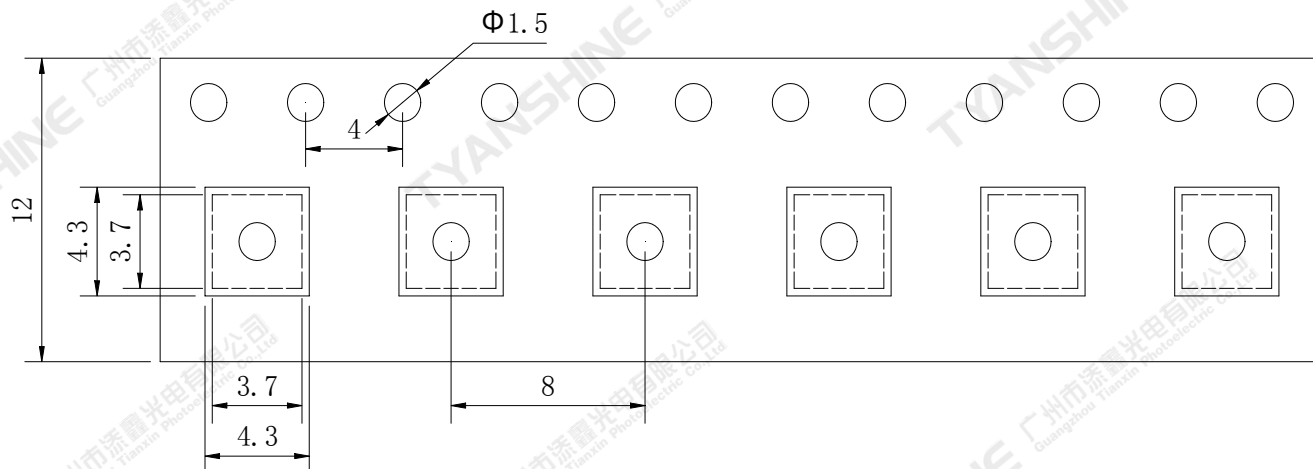
Profile Feature	Lead-Based Solder
Average Ramp-Up Rate (Tsmax to Tp)	3°C/second max.
Preheat: Temperature Min (Tsmin)	100°C
Preheat: Temperature Max (Tsmax)	150°C
Preheat: Time (Tsmin to Tsmax)	60-120 seconds
Time Maintained Above: Temperature (Tl)	183°C
Time Maintained Above: Time (Tl)	60-150 seconds
Peak/Classification Temperature (Tp)	225°C
Time Within 5°C of Actual Peak Temperature (Tp)	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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