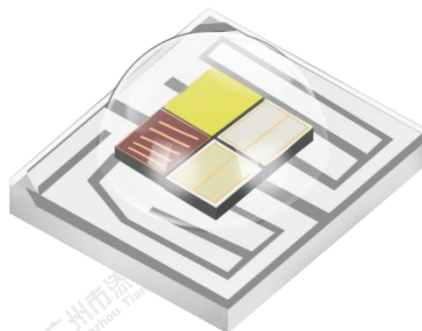


TX-3535RGBW5FC120-0GVCND34-02C

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

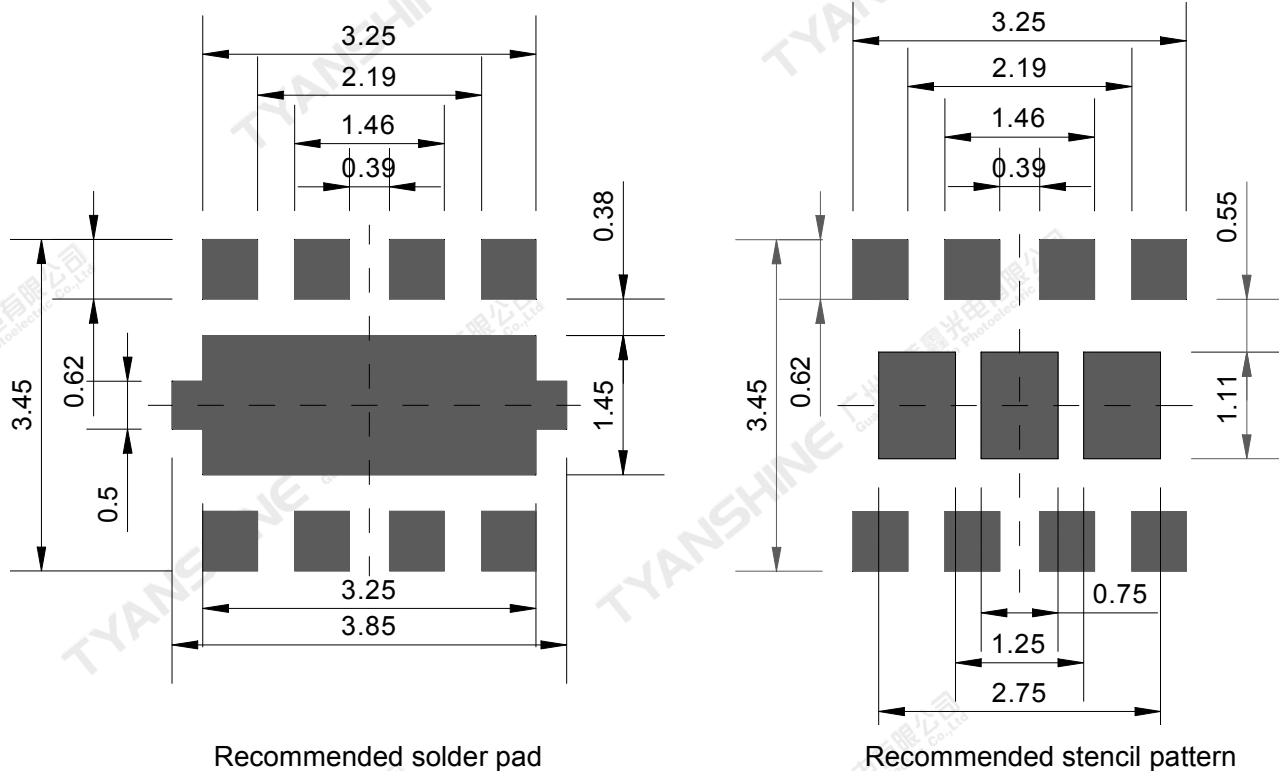
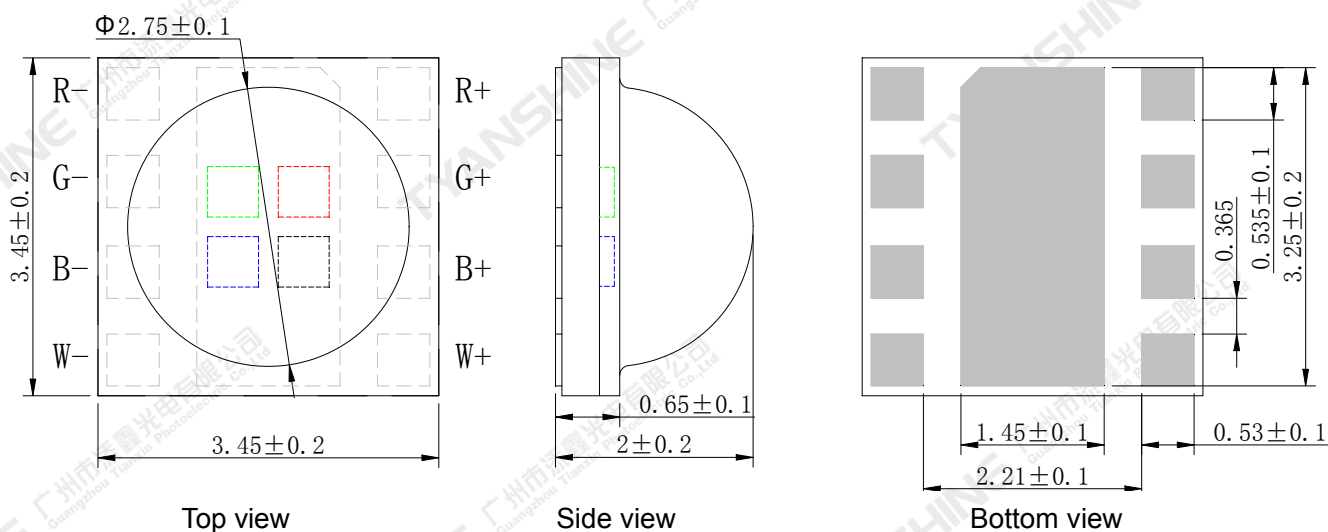
Emitting Color:

- ◆Red
- ◆Green
- ◆Blue
- ◆White

Applications:

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

Package Dimensions:



Notes:

1. All dimensions are in millimeters .
2. Tolerances unless otherwise mentioned are ± 0.1 mm .

Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol		Max Ratings	Unit
Forward Current	IF		400	mA
Reverse Voltage	VR		Not designed for reverse operation	V
Power Dissipation	Pd	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	Tstg		-30~70	℃
Operation Temperature	Topr		-40~85	

Notes:

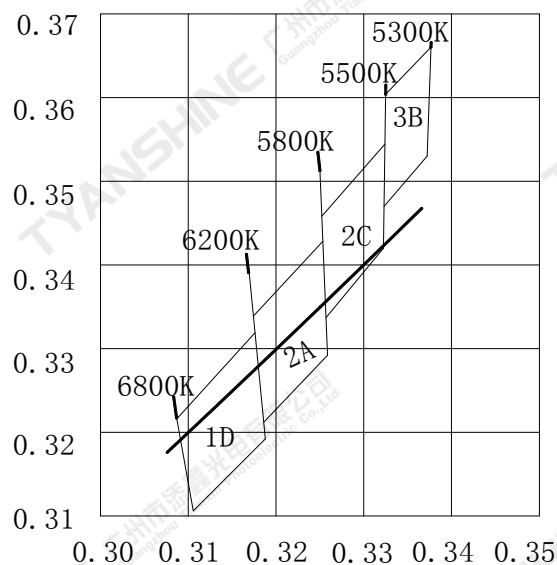
- Specifications are subject to change without notice.
- The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.
- Precautions for ESD:
STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic 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=350mA	R	45	50	60	lm
			G	90	100	115	
			B	17	22	25	
			W	90	115	140	
Dominant Wavelength	λ_d		R	620	625	630	nm
			G	520	525	530	
			B	455	460	462	
Correlated Colour Temperature	CCT		W	5300	6000	6800	K
Peak-emission Wavelength	λ_p		R	625	630	635	nm
			G	510	513	516	
			B	448	452	455	
Spectral Line Half-Width	$\triangle\lambda$		R	15	20	25	nm
			G	30	35	40	
			B	20	25	30	
			W	125	130	135	
Forward Voltage	V_f		R	2.0	2.2	2.5	V
			G	2.8	3.3	3.6	
			B	2.9	3.3	3.6	
			W	2.9	3.1	3.5	
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	$V\triangle F/T$	—	R	—	-2.0	—	mV/℃
			G	—	-1.6	—	
			B	—	-1.6	—	
			W	—	-1.6	—	

White Color coordinate filing (IF=350mA)



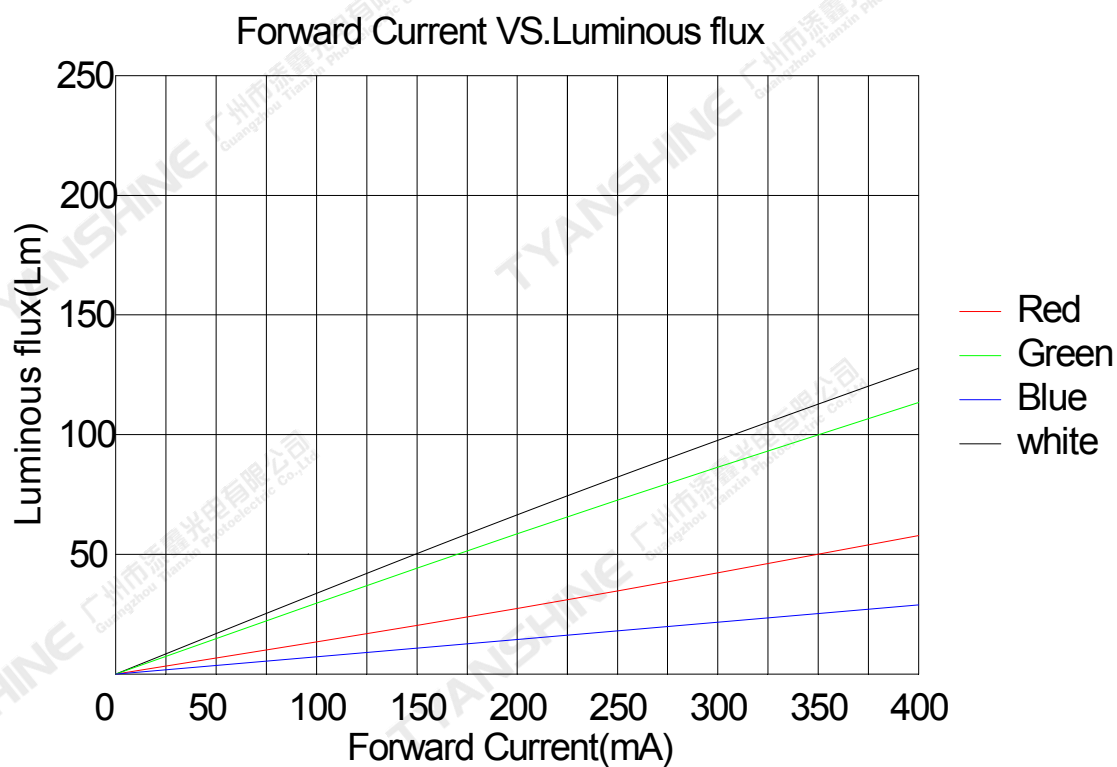
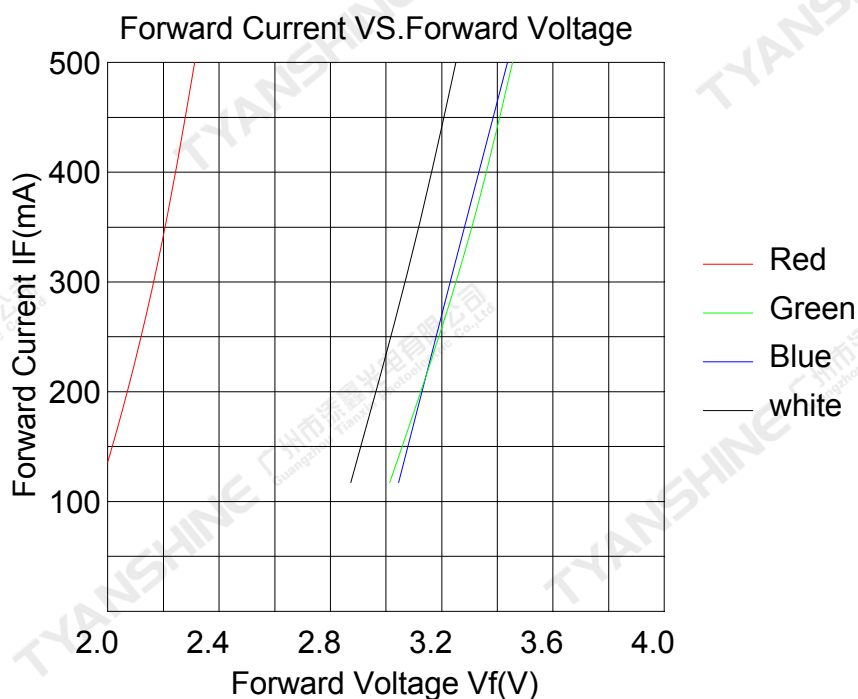
Region	CCT Range		X1	Y1	X2	Y2	X3	Y3	X4	Y4
	Min	Max								
3B	5300K	5500K	0.3372	0.3530	0.3323	0.3470	0.3325	0.3604	0.3377	0.3660
2C	5500K	5800K	0.3322	0.3420	0.3257	0.3337	0.3252	0.3458	0.3324	0.3544
2A	5800K	6200K	0.3259	0.3292	0.3186	0.3212	0.3174	0.3337	0.3253	0.3428
1D	6200K	6800K	0.3188	0.3192	0.3106	0.3106	0.3087	0.3216	0.3176	0.3319

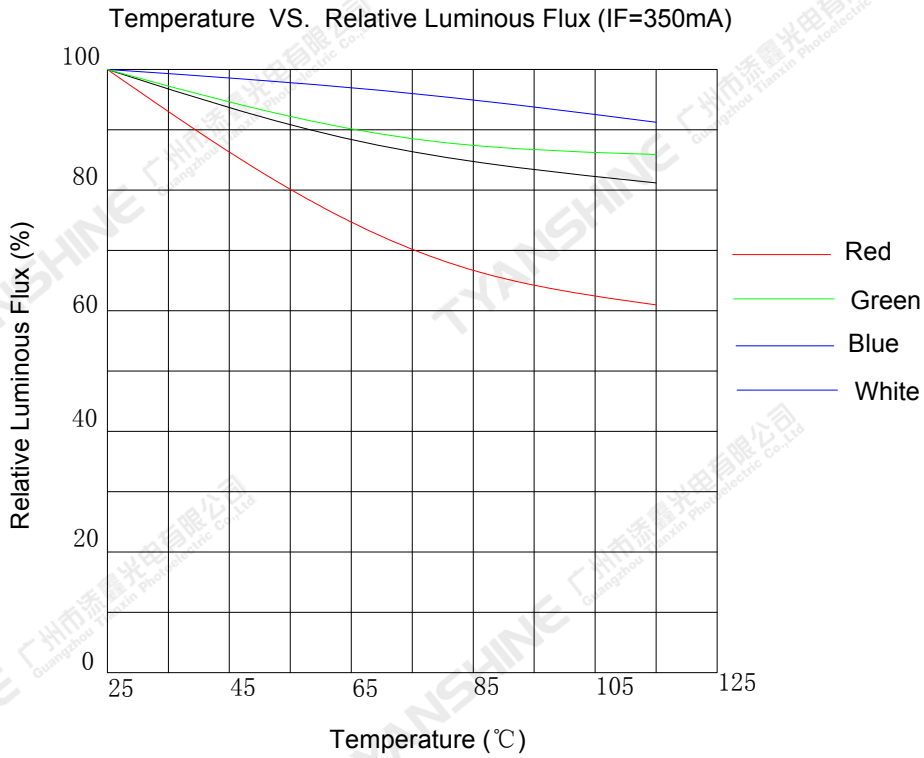
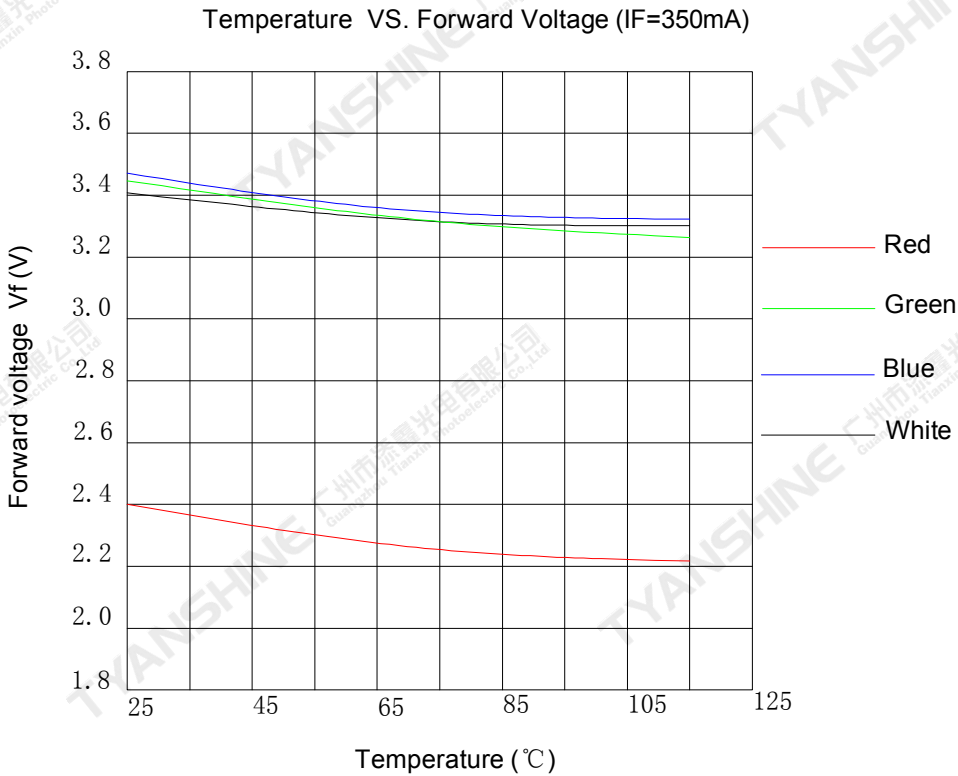
Notes:

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: $\pm 0.15V$.

Typical Electrical/Optical Characteristics Curves

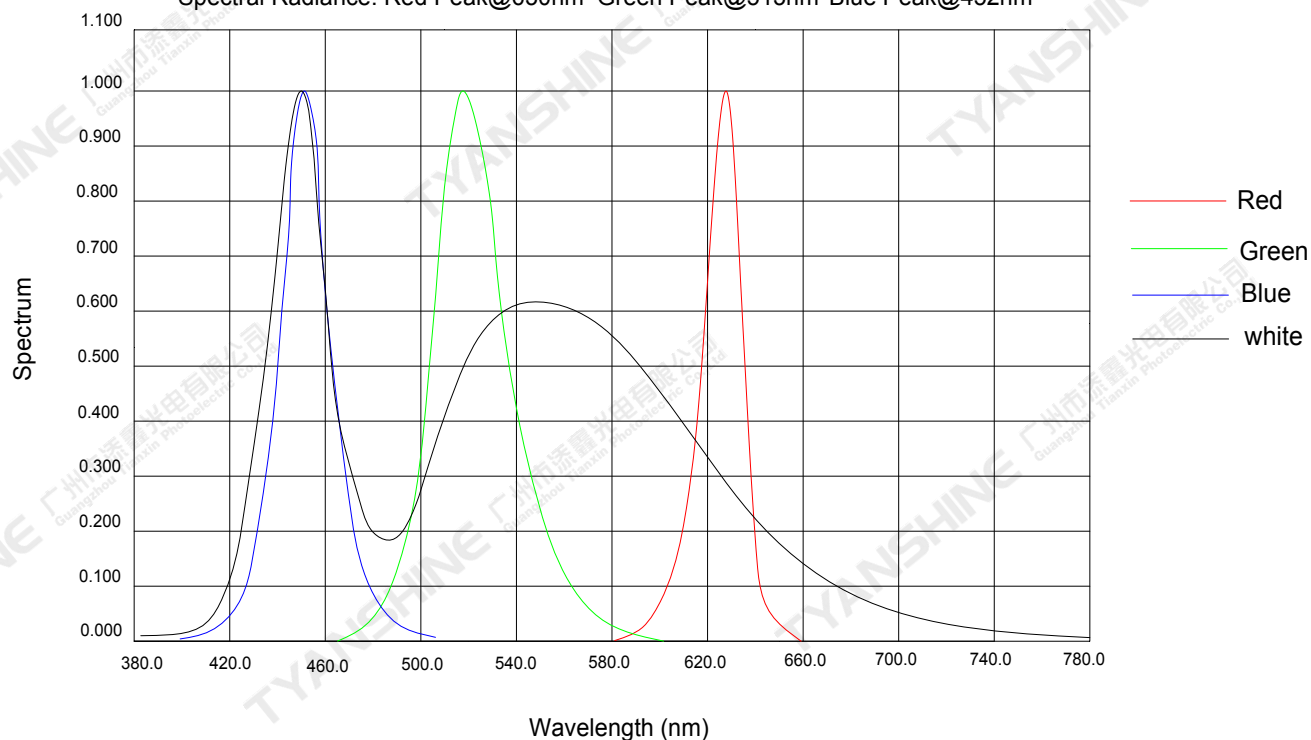
(25°C Ambient Temperature Unless Otherwise Noted)



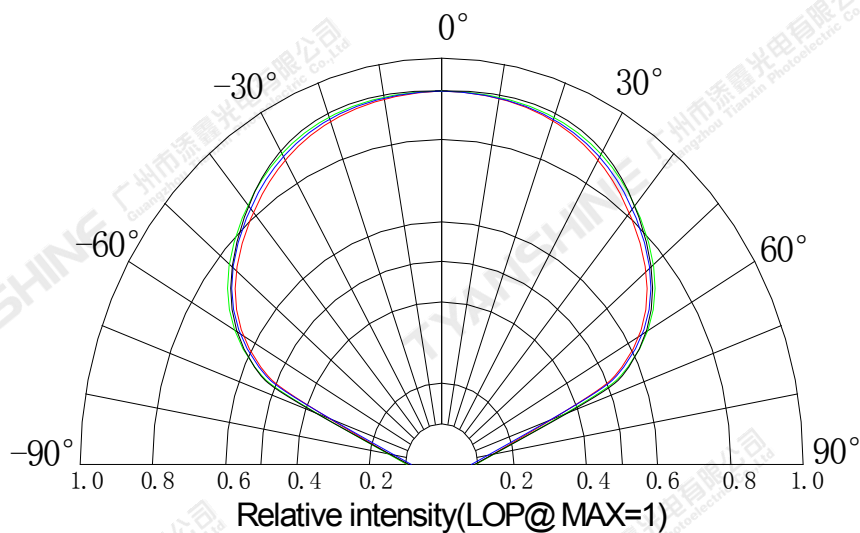


Relative Spectral Distribution

Spectral Radiance: Red Peak@630nm Green Peak@513nm Blue Peak@452nm



Beam Pattern



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

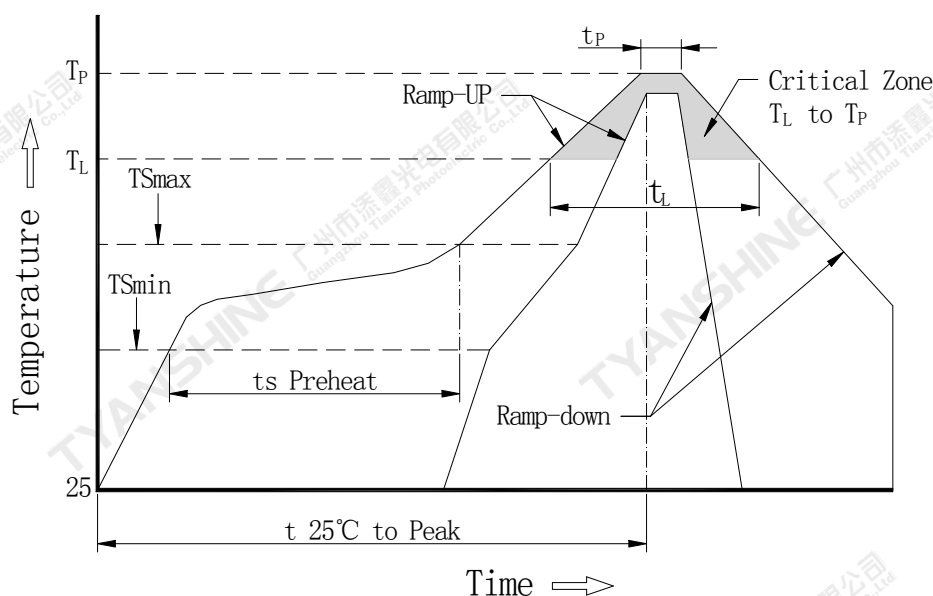
Storage Environment Condition

Temperature: 5°C ~ 30°C (41°F ~ 86°F)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown to the under figure.



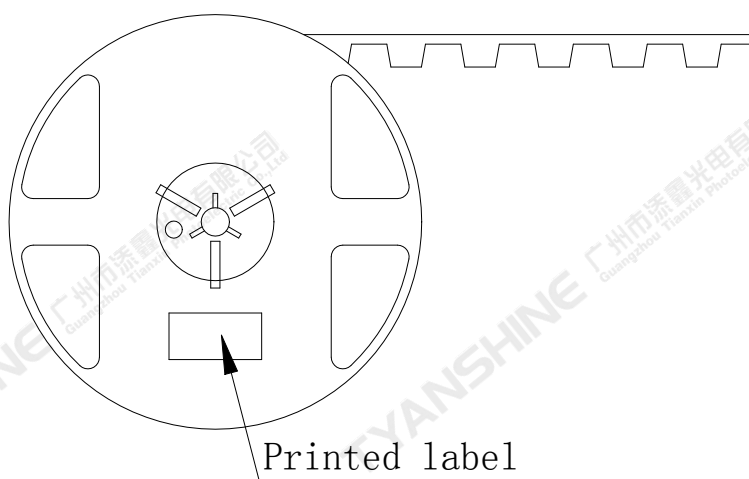
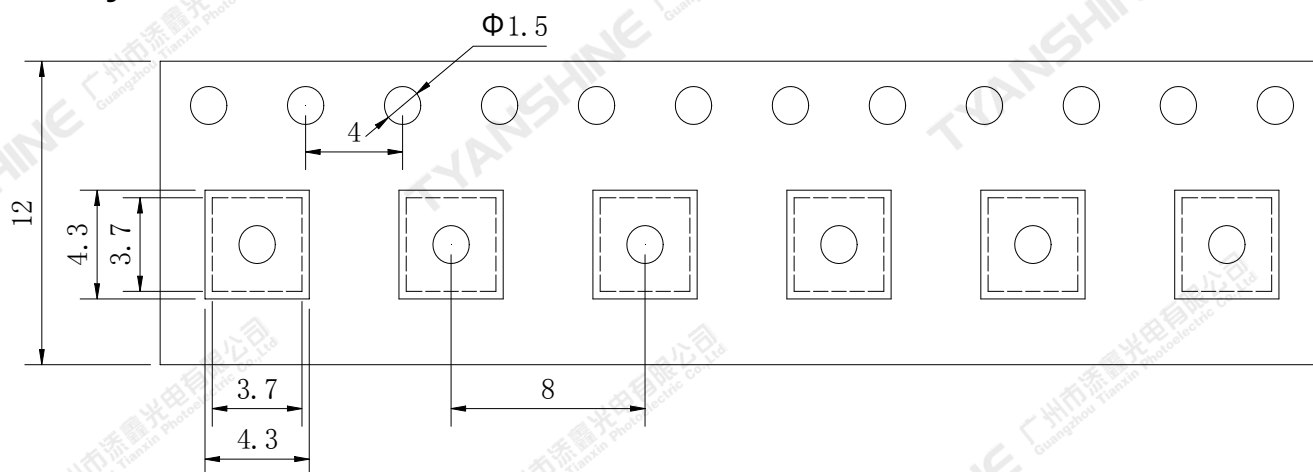
Profile Feature	Pb-Free Solderr(SnBi35Ag0.3)
Average Ramp-Up Rate (Tsmax to Tp)	3°C/second max.
Preheat: Temperature Min (Tsmin)	100°C
Preheat: Temperature Max (Tsmax)	150°C
Preheat: Time (Tsmin to Tsmax)	60-120 seconds
Time Maintained Above: Temperature (Tl)	183°C
Time Maintained Above: Time (tL)	60-150 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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