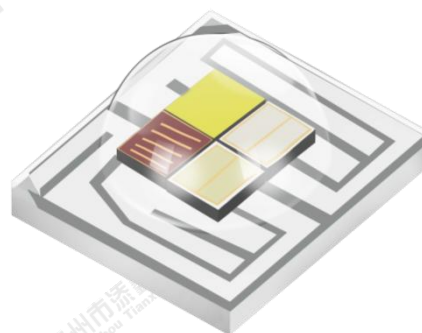


TX-3535RGBW4FC120-OGVCND34-07BH80

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
- ◆White:GaInN

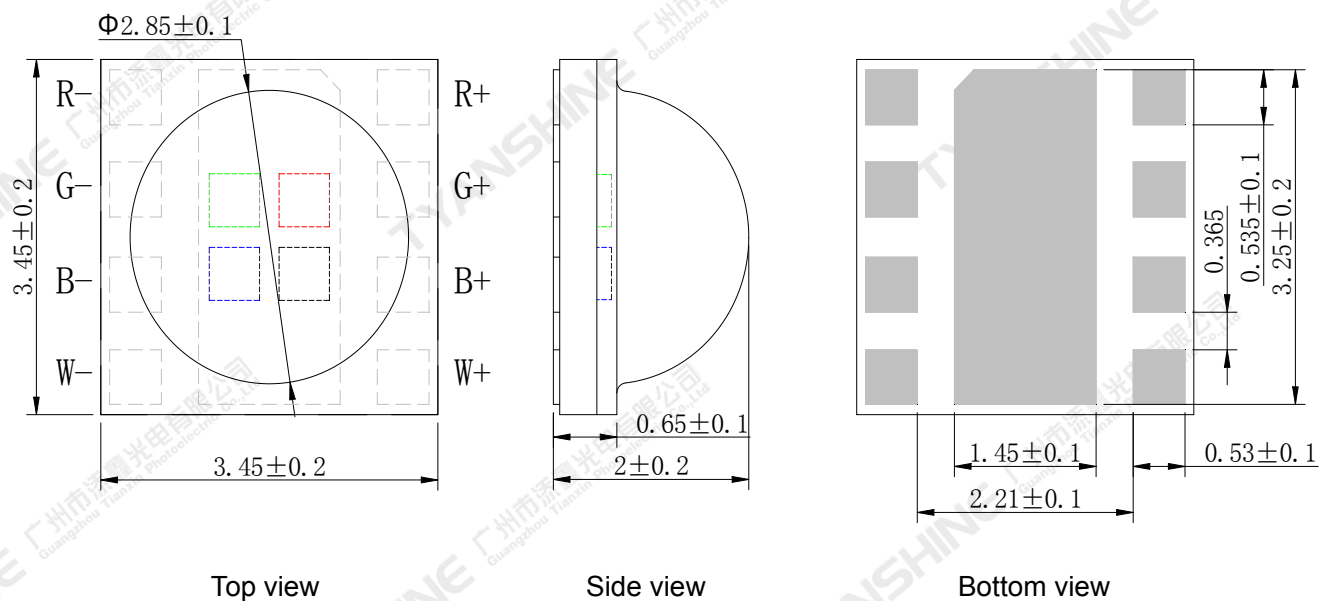
Lens Color:

- ◆Water clear

Applications:

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

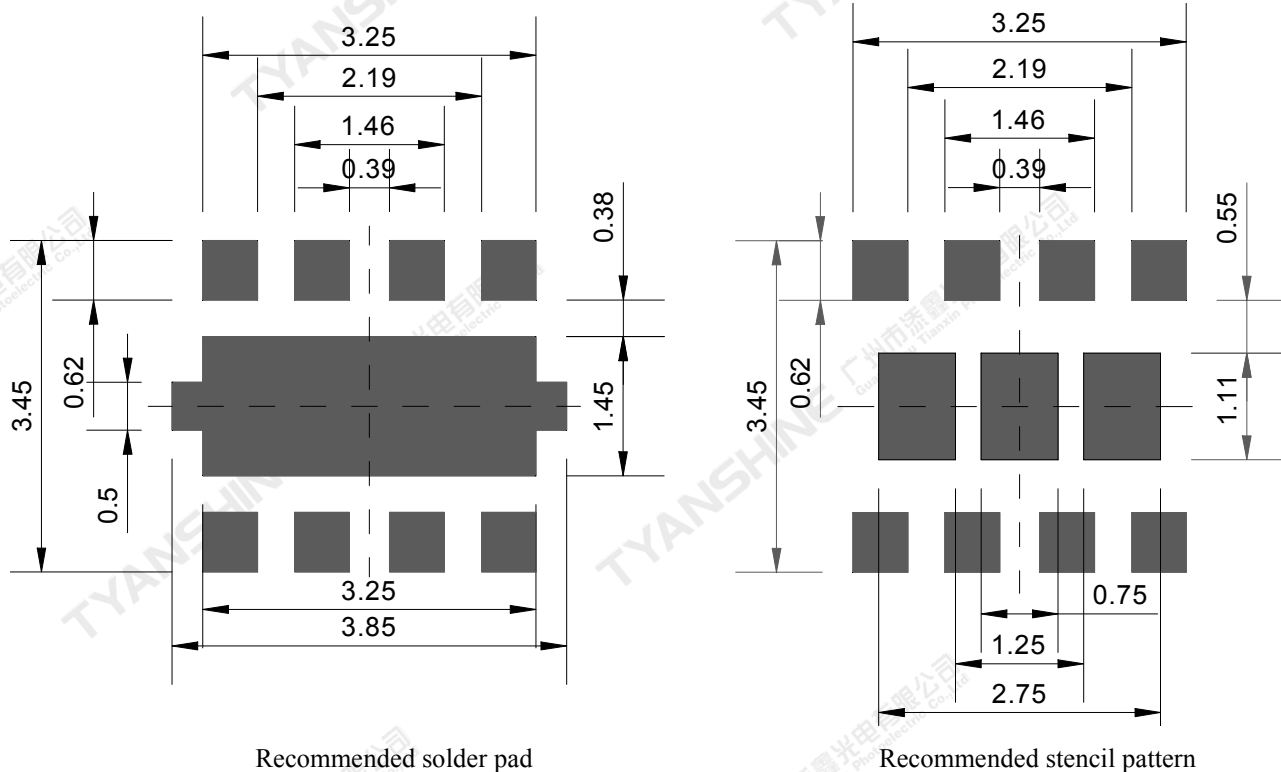
Package Dimensions:



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 ± 0.1 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	
		W	1190	
Junction Temperature	Tj	R	115	℃
		G	150	
		B	150	
		W	150	
Electrostatic Discharge Threshold (ESD)	ESD		ESD sensitive device	V
Storage Temperature	Tstg		-40~70	℃
Operation Temperature	Topr		-30~85	

Notes:

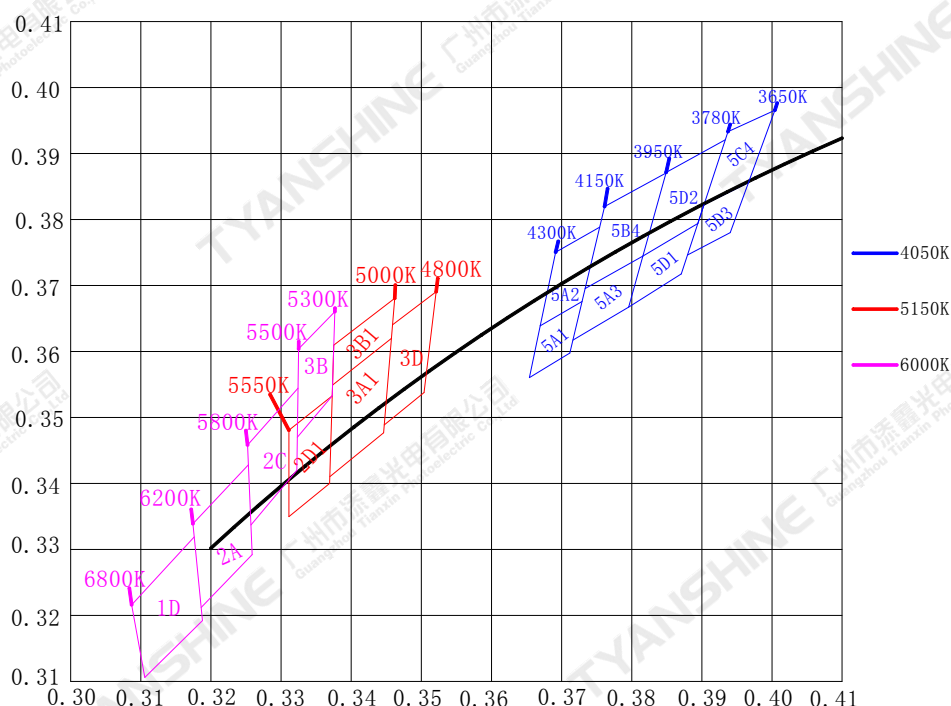
- Specifications are subject to change without notice.
- The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.
- Precautions for ESD:
STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.
- The temperature of PCB copper foil within 3mm from the lamp bead shall not exceed 105 ℃. If the input power reaches more than 80% of the maximum input power, the temperature of copper foil within this range shall be controlled within 85 ℃.

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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	38	45	55	lm
			G	60	75	85	
			B	20	24	30	
			W	60	70	85	
Dominant Wavelength	λ_d		R	619	624	629	nm
			G	519	526	531	
			B	464	471	476	
Color Rendering Index	Ra		W	80	82.5	85	—
Peak-emission Wavelength	λ_p		R	626	631	636	nm
			G	514	521	526	
			B	461	466	471	
Spectral Line Half-Width	$\Delta\lambda$		R	15	17.5	20	nm
			G	30	35	40	
			B	16	19	22	
			W	17	20	23	
Forward Voltage	V_f		R	2.0	2.3	2.6	V
			G	2.9	3.2	3.6	
			B	2.9	3.2	3.6	
			W	2.8	3.2	3.5	
Correlated Colour Temperature	CCT		W	3650	4050	4300	K
				4800	5150	5550	
				5300	6000	6800	
Reverse Current	I_R	$V_R=5V$	R	—	—	2	μA
			G	—	—	2	
			B	—	—	2	
			W	—	—	2	
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	—	
			W	—	15	—	
Temperature Coefficient of Voltage	$V\Delta F/T$	—	R	—	-2.7	—	mV/℃
			G	—	-3.9	—	
			B	—	-1.6	—	
			W	—	-1.6	—	

White Color coordinate filing (IF=300mA)



Region	CCT Range		X1	Y1	X2	Y2	X3	Y3	X4	Y4
	Min	Max								
5D3	3650K	3780K	0.3940	0.3780	0.3879	0.3746	0.3903	0.3823	0.3966	0.3956
5C4			0.3966	0.3956	0.3903	0.3823	0.3937	0.3933	0.4004	0.3965
5D1	3780K	3950K	0.3871	0.3718	0.3796	0.3667	0.3811	0.3725	0.3888	0.3775
5D2			0.3888	0.3775	0.3811	0.3725	0.3843	0.3852	0.3927	0.3902
5A3	3950K	4150K	0.3796	0.3667	0.3716	0.3617	0.3729	0.3676	0.3811	0.3725
5B4			0.3811	0.3725	0.3729	0.3676	0.3757	0.3800	0.3843	0.3851
5A1	4150K	4300K	0.3712	0.3598	0.3654	0.3560	0.3669	0.3639	0.3729	0.3676
5A2			0.3729	0.3676	0.3669	0.3639	0.3691	0.3750	0.3754	0.3788
3D	4800K	5000K	0.3504	0.3538	0.3448	0.3489	0.3458	0.3641	0.3521	0.3690
3B1	5000K	5300K	0.3458	0.3620	0.3373	0.3549	0.3375	0.3610	0.3462	0.3681
3A1			0.3446	0.3477	0.3369	0.3410	0.3373	0.3549	0.3458	0.3620
3B	5300K	5500K	0.3372	0.3530	0.3323	0.3470	0.3325	0.3604	0.3377	0.3660
2D1	5300K	5550K	0.3369	0.3400	0.3311	0.3350	0.3311	0.3481	0.3373	0.3533
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	0.3339	0.3253	0.3428
1D	6200K	6800K	0.3188	0.3192	0.3106	0.3106	0.3087	0.3216	0.3176	0.3319

Notes:

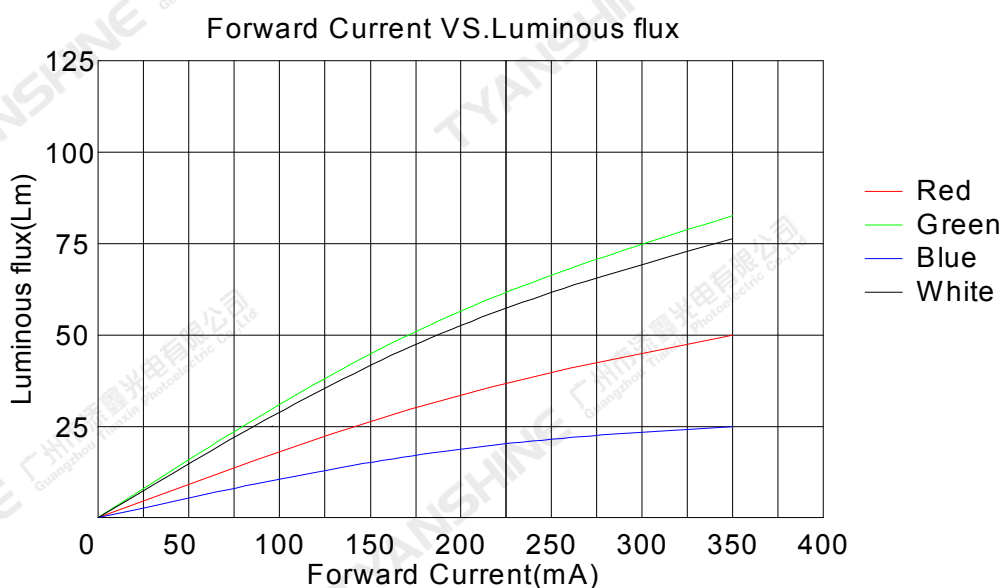
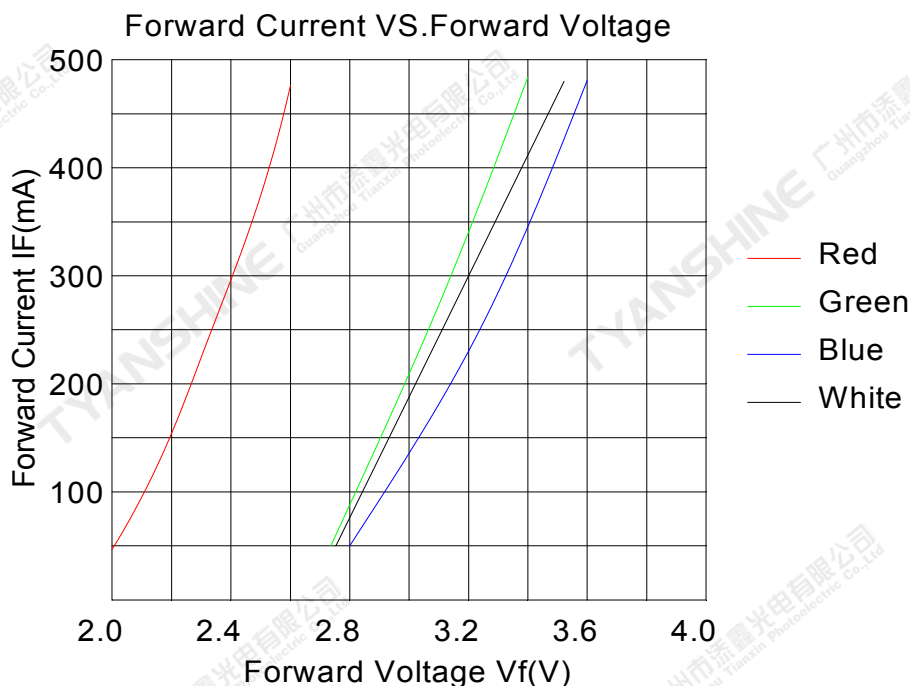
1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

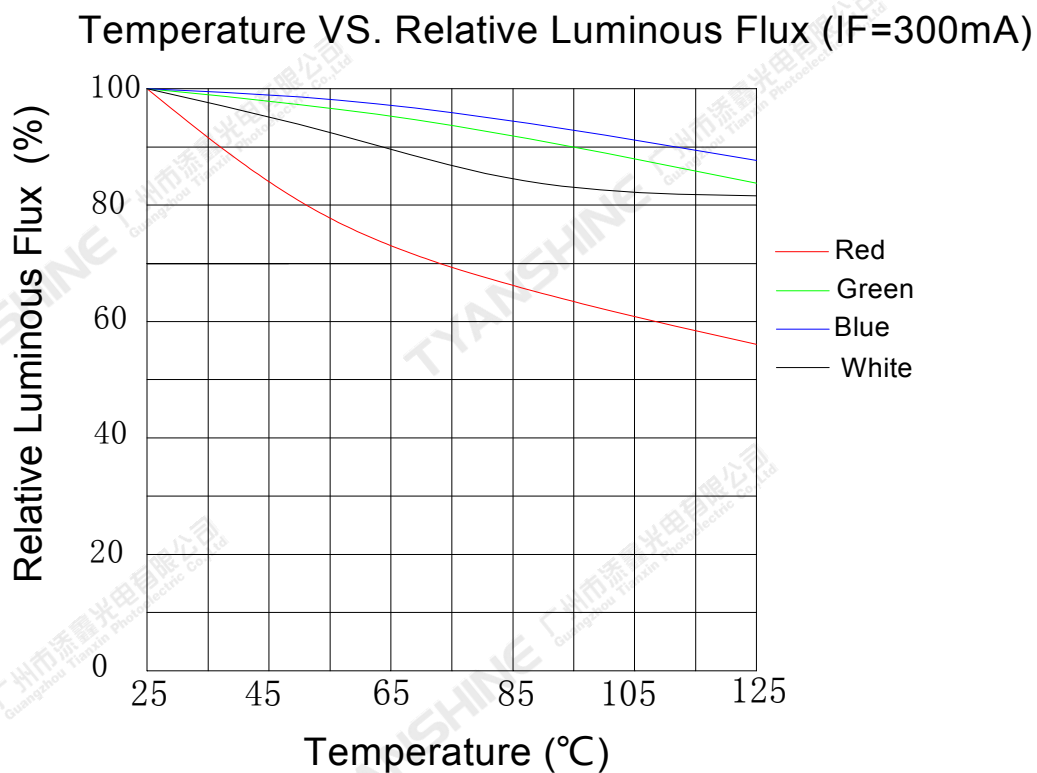
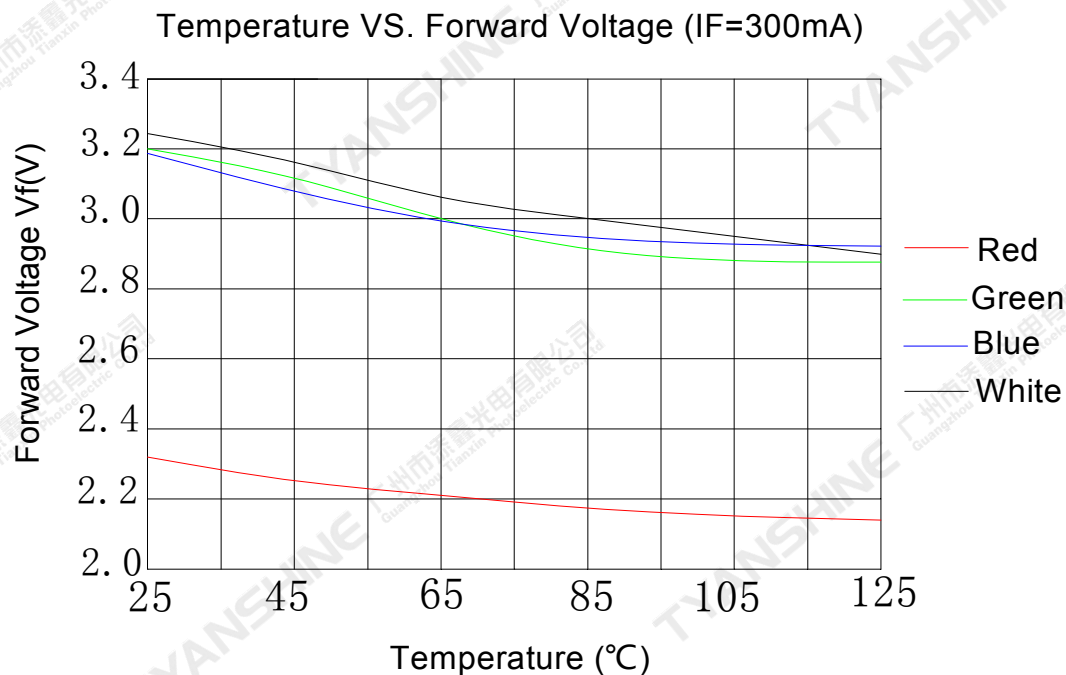
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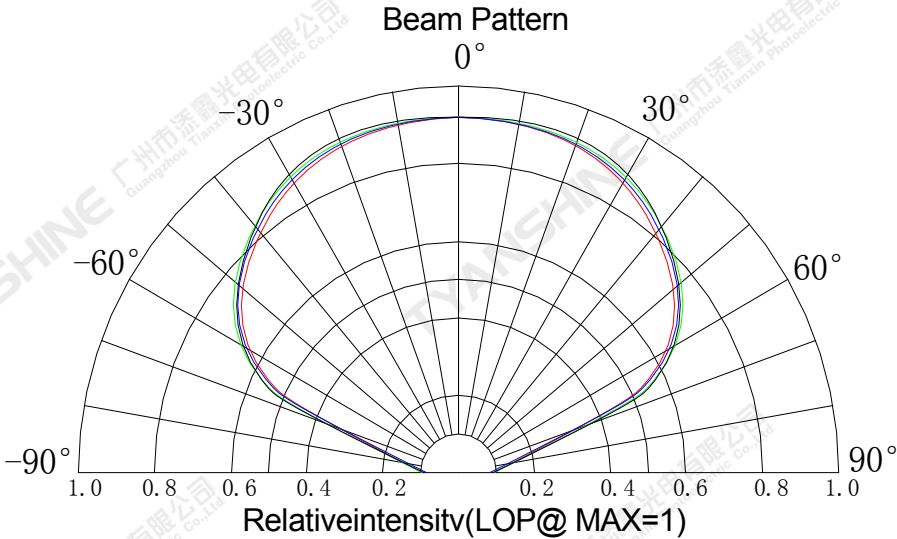
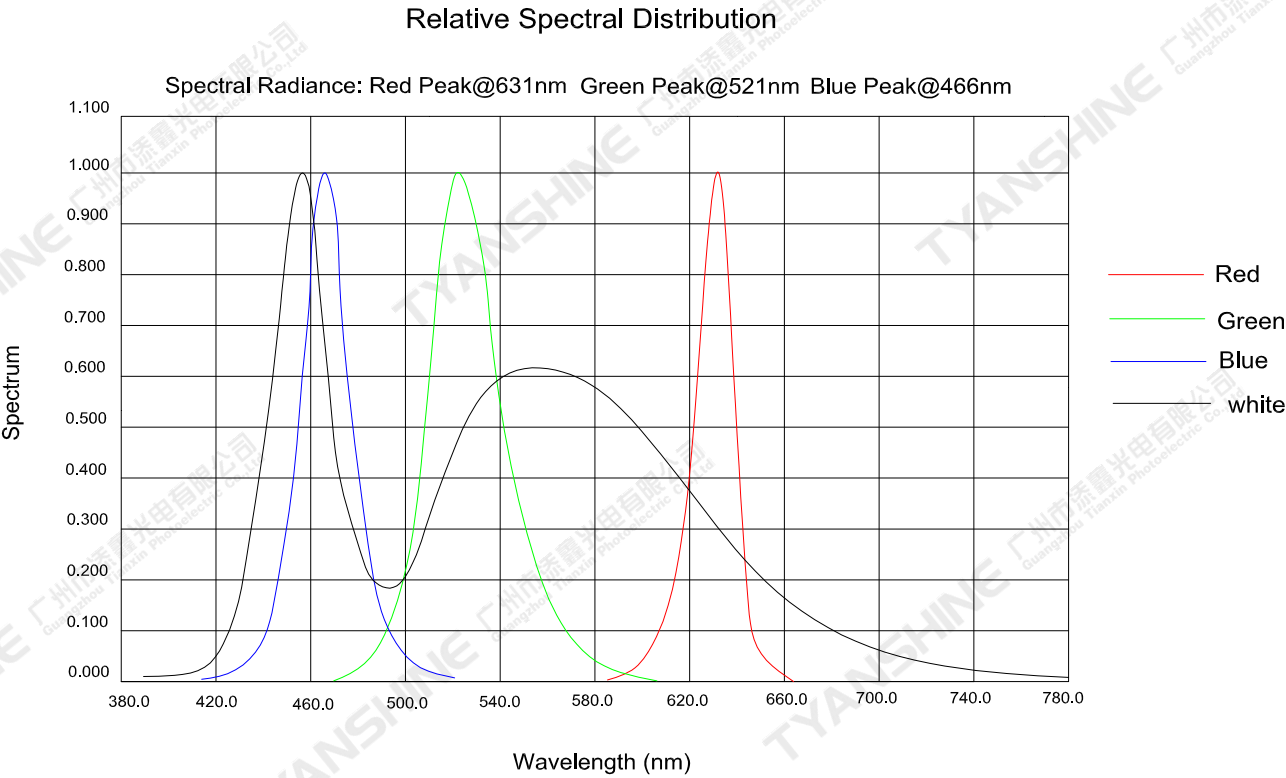
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
4. Luminous flux measurement tolerance: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

Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)







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

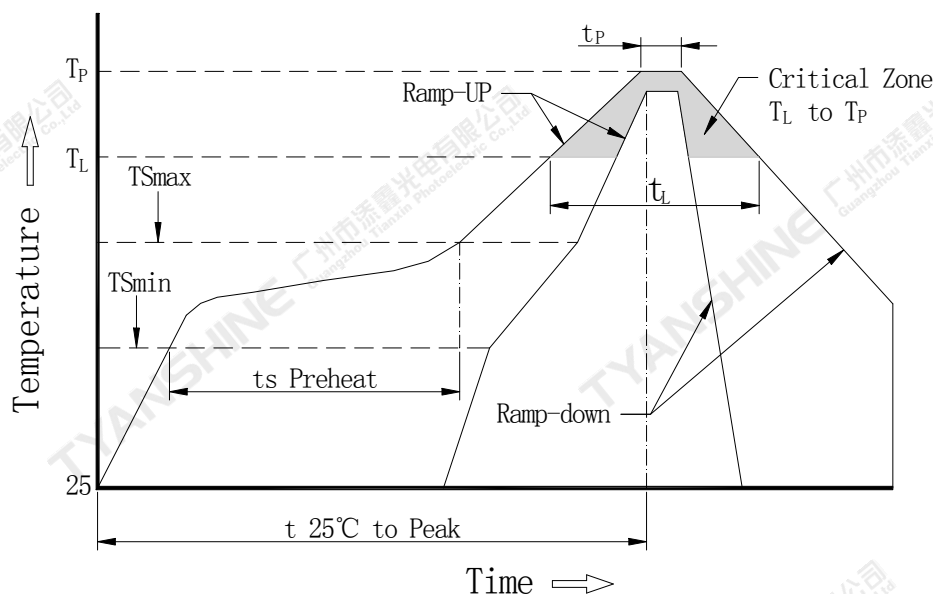
Storage Environment Condition

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 (Tsmax to Tp)	3°C/second max.
Preheat: Temperature Min (Tsmín)	100°C
Preheat: Temperature Max (Tsmax)	150°C
Preheat: Time (Tsmín 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.

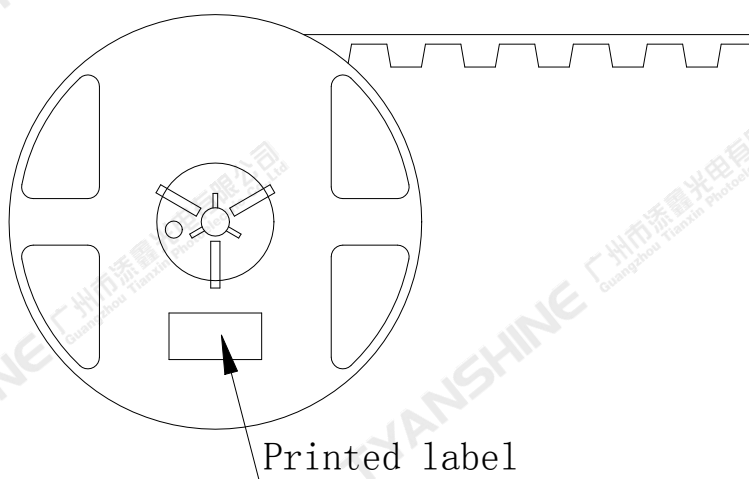
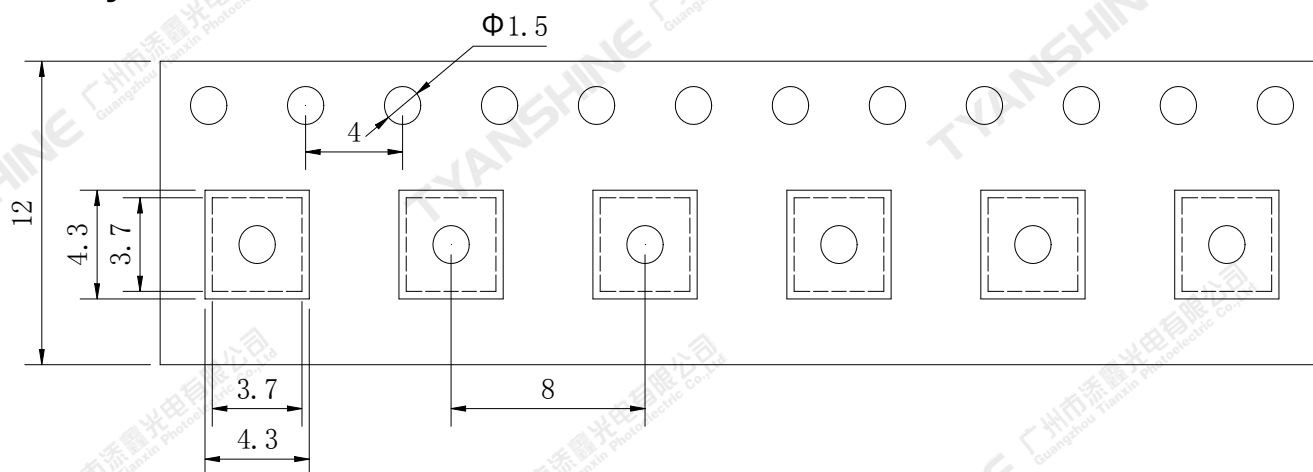
Note:

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

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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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