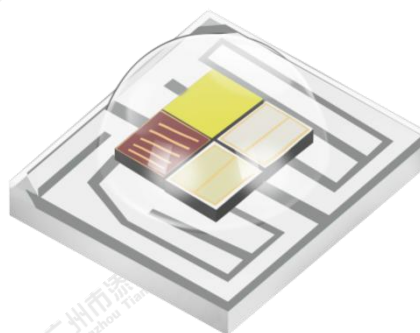


TX-3535RGBS4FC120-OGVCND34-03H80

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

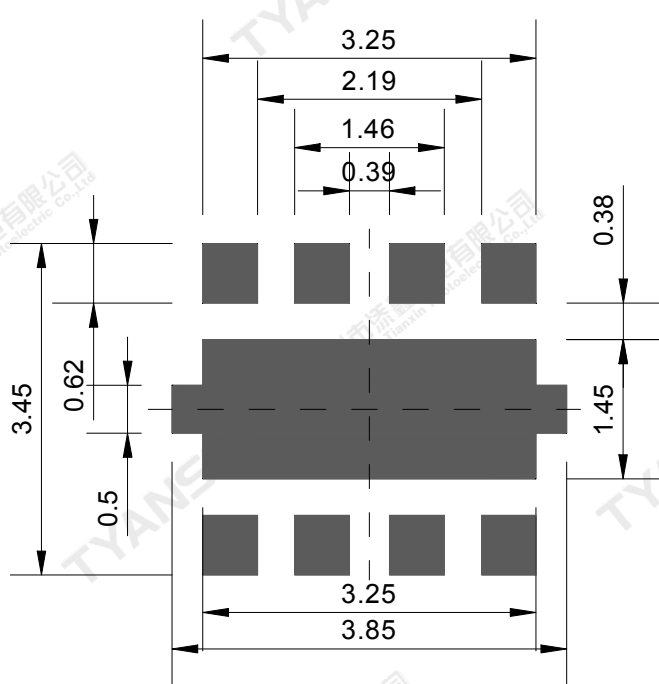
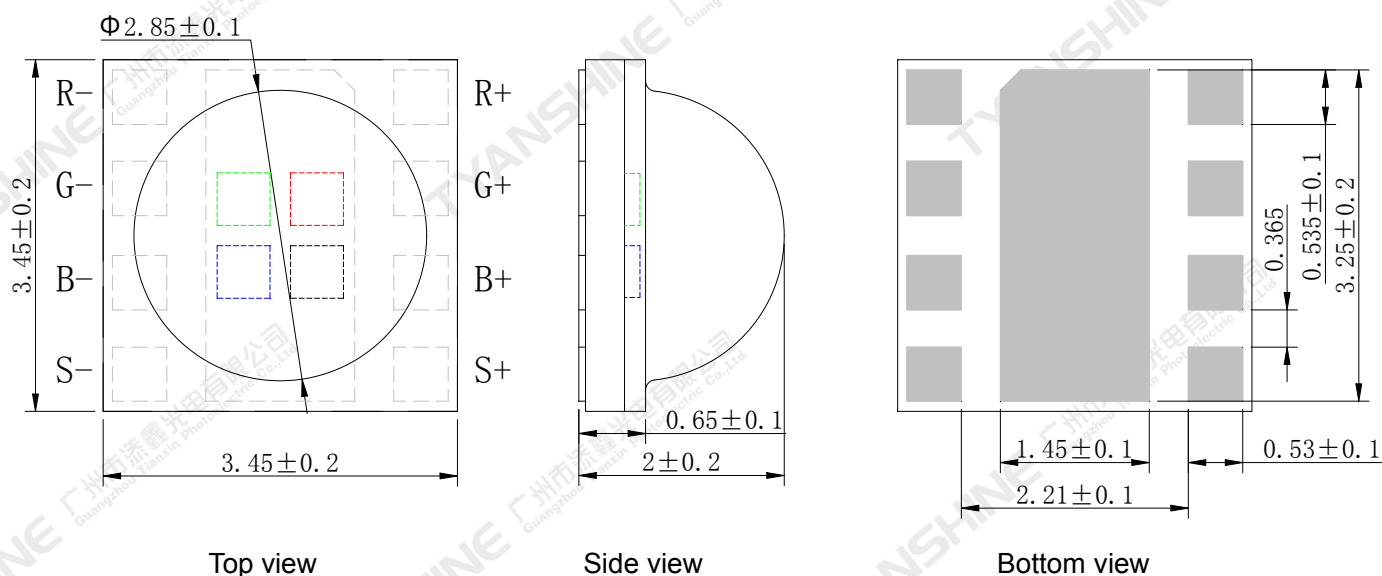
Lens Color:

- ◆Water clear

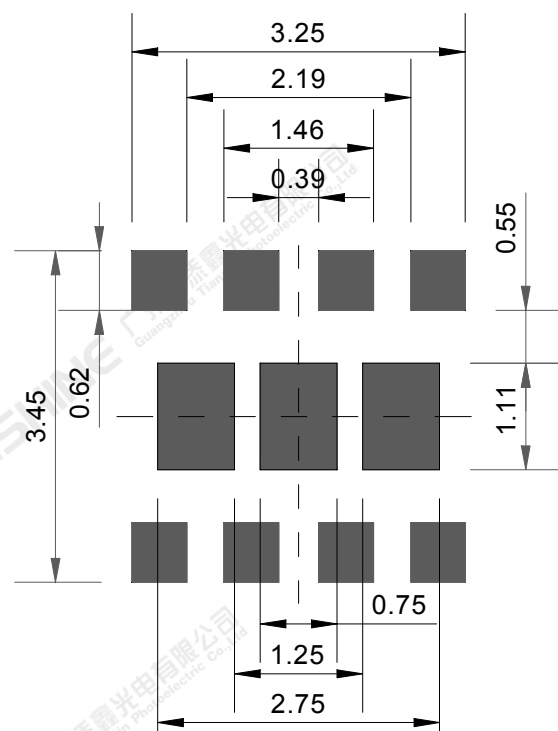
Applications:

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

Package Dimensions:



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	910	mW
		G	1190	
		B	1190	
		S	1190	
Junction Temperature	Tj	R	115	℃
		G	150	
		B	150	
		S	150	
Electrostatic Discharge Threshold (ESD)	ESD		ESD sensitive device	V
Storage Temperature	Tstg		-40~70	℃
Operation Temperature	Topr		-30~100	

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.

Part No.	TX-3535RGS4FC120-OGVCND34-03H80	Spec No.	WKF-BE0216	Page	3 of 10
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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	65	72	80	
			B	23	28	32	
			S	60	75	90	
Dominant Wavelength	λ_d		R	619	625	631	nm
			G	524	530	536	
			B	464	470	476	
Correlated Colour Temperature	CCT		S	2780	3000	3130	K
Color Rendering Index	Ra		S	80	82.5	85	—
Peak-emission Wavelength	λ_p		R	624	635	636	nm
			G	519	525	531	
			B	459	465	471	
Spectral Line Half-Width	$\Delta\lambda$		R	15	17.5	20	nm
			G	30	35	40	
			B	16	19	22	
			S	17	20	23	
Forward Voltage	V_f		R	2.1	2.3	2.6	V
			G	3.0	3.2	3.5	
			B	3.0	3.2	3.5	
			S	3.0	3.2	3.5	
Reverse Current	I_R	$V_R=5V$	R	—	—	5	μA
			G	—	—	5	
			B	—	—	5	
			S	—	—	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	—	15	—	
			B	—	15	—	
			S	—	15	—	
Temperature Coefficient of Voltage	$V\Delta F/T$	—	R	—	-2.7	—	mV/℃
			G	—	-3.9	—	
			B	—	-1.6	—	
			S	—	-1.6	—	

White light Color coordinate filing (IF=300mA)

Grade	TC	P1		P2		P3		P4	
		X1	Y1	X2	Y2	X3	Y3	X4	Y4
7B3	3030K - 3130K	0.4322	0.4096	0.4364	0.4188	0.4430	0.4212	0.4385	0.4119
7B4		0.4281	0.4006	0.4322	0.4096	0.4385	0.4119	0.4342	0.4082
7A3		0.4242	0.3919	0.4281	0.4006	0.4342	0.4028	0.4300	0.3939
7A4		0.4203	0.3833	0.424	0.3919	0.4300	0.3939	0.4259	0.3853
7C2	2950K - 3030K	0.4385	0.4119	0.4430	0.4212	0.4496	0.4236	0.4449	0.4141
7C1		0.4342	0.4028	0.4385	0.4119	0.4449	0.4141	0.4403	0.4049
7D2		0.4300	0.3939	0.4342	0.4028	0.4403	0.4049	0.4359	0.3960
7D1		0.4259	0.3853	0.4300	0.3960	0.4359	0.3960	0.4316	0.3873
7C3	2871K - 2950K	0.4449	0.4141	0.4496	0.4236	0.4562	0.4260	0.4513	0.4164
7C4		0.4403	0.4049	0.4449	0.4141	0.4513	0.4164	0.4465	0.4071
7D3		0.4359	0.3960	0.4403	0.4049	0.4465	0.4071	0.4418	0.3981
7D4		0.4316	0.3873	0.4359	0.3960	0.4418	0.3981	0.4373	0.3893
8B2	2780K - 2871K	0.4513	0.4164	0.4562	0.4260	0.4624	0.4274	0.4573	0.4178
8B1		0.4465	0.4071	0.4513	0.4164	0.4573	0.4178	0.4523	0.4085
8A2		0.4418	0.3981	0.4465	0.4071	0.4523	0.4085	0.4475	0.3994
8A1		0.4373	0.3893	0.4418	0.3981	0.4475	0.3994	0.4428	0.3906

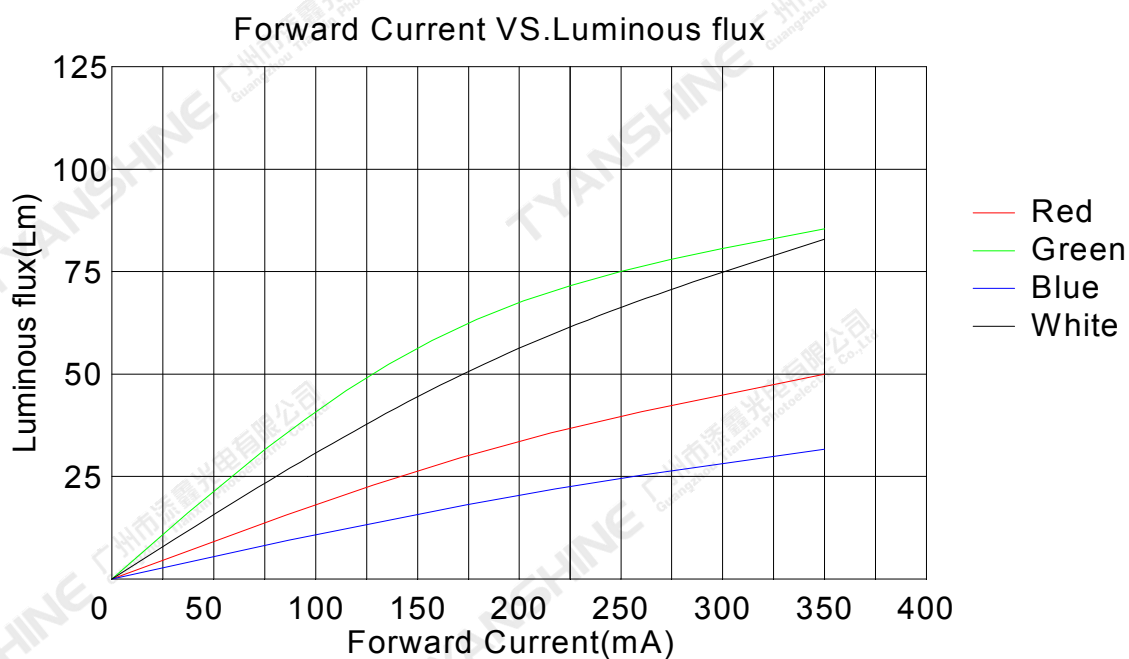
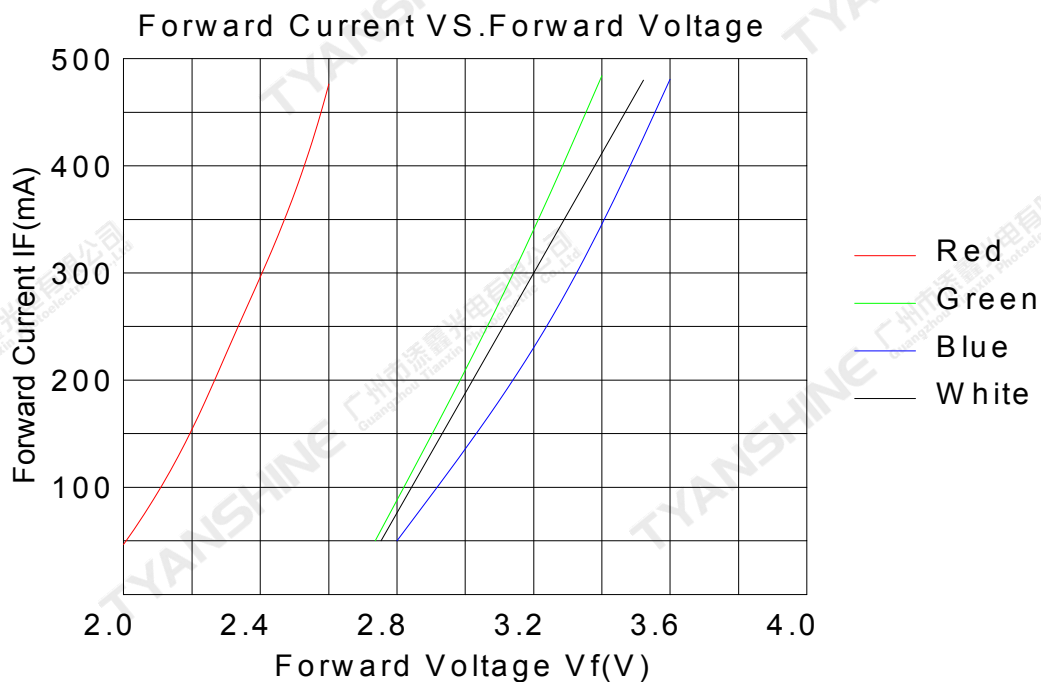
Notes:

- 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: $\pm 0.15V$.

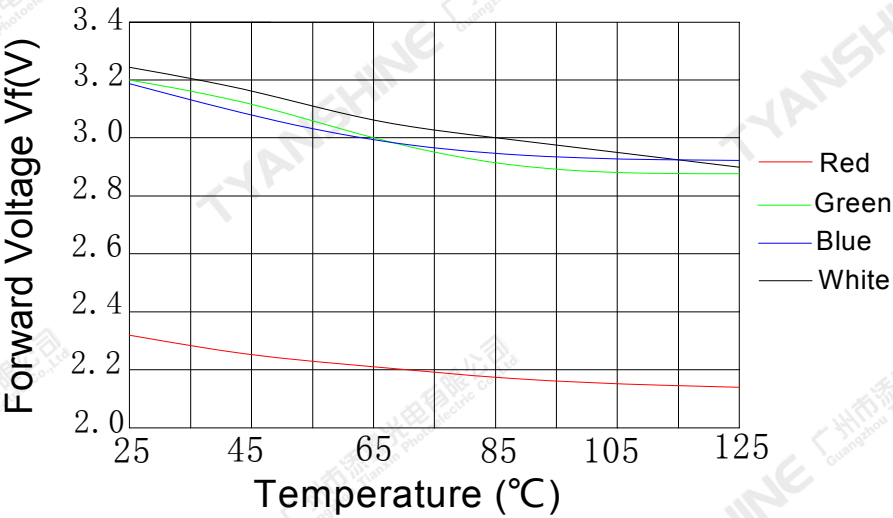
Part No.	TX-3535RBS4FC120-OGVCND34-03H80	Spec No.	WKF-BE0216	Page	5 of 10
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Typical Electrical/Optical Characteristics Curves

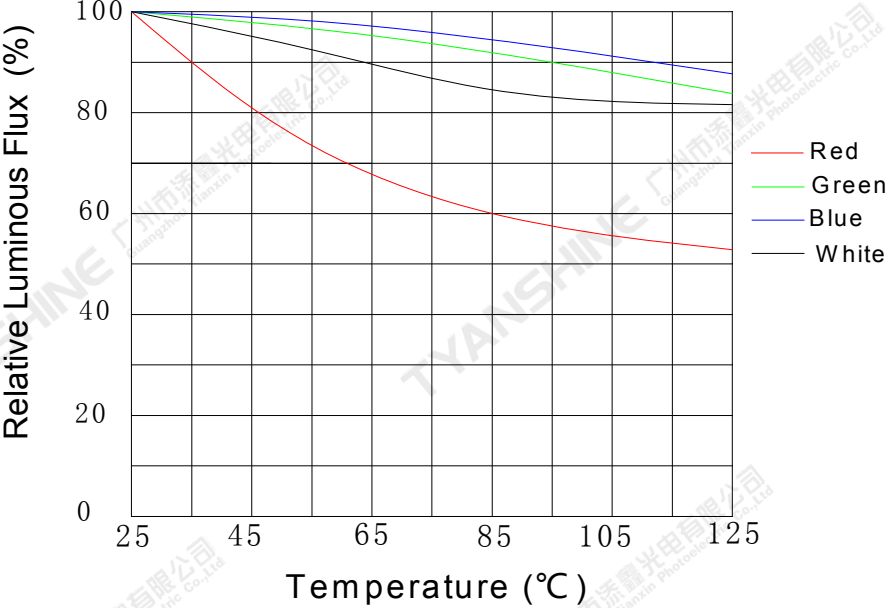
(25°C Ambient Temperature Unless Otherwise Noted)

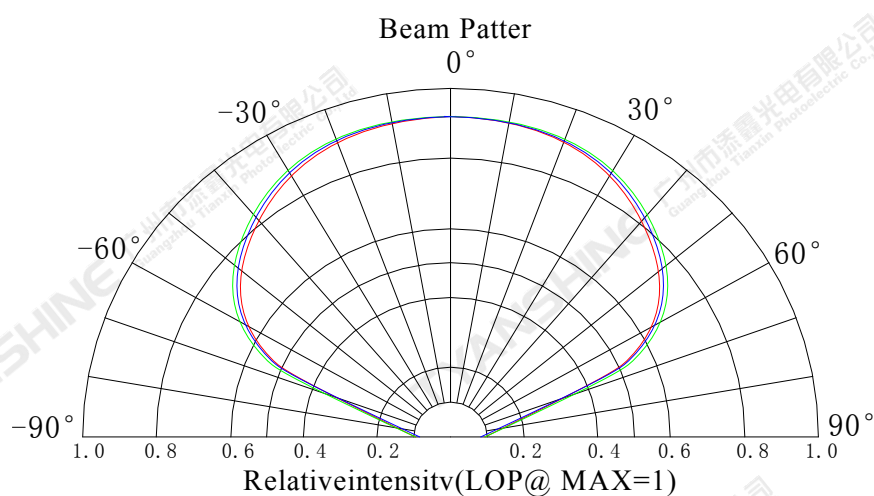
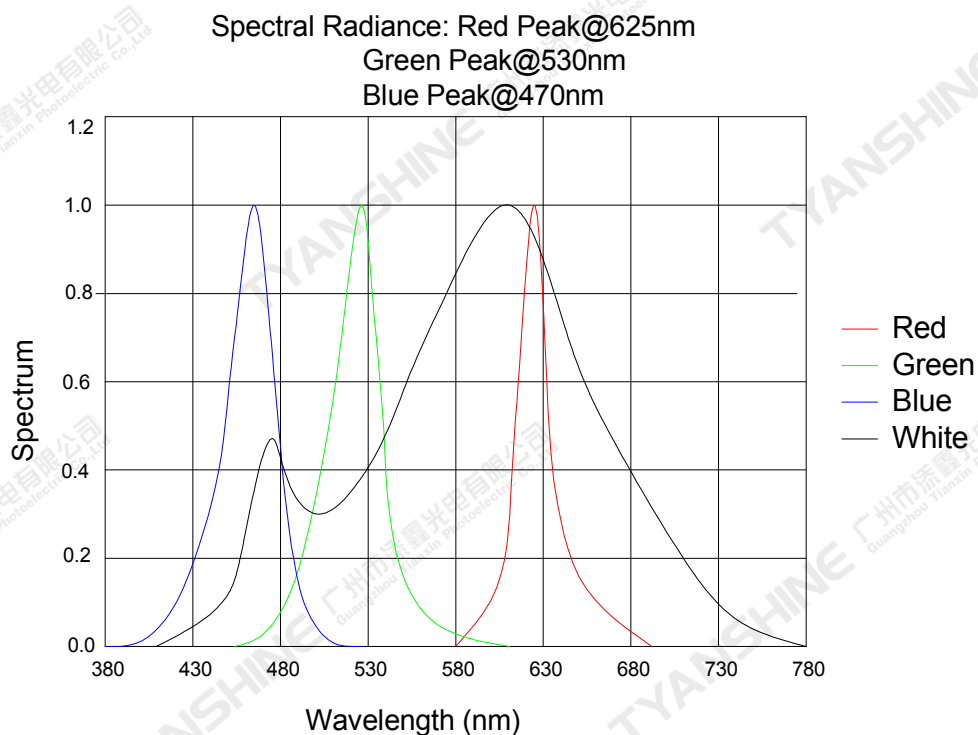


Temperature VS. Forward Voltage (IF=300mA)



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



**Notes:**

1. 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

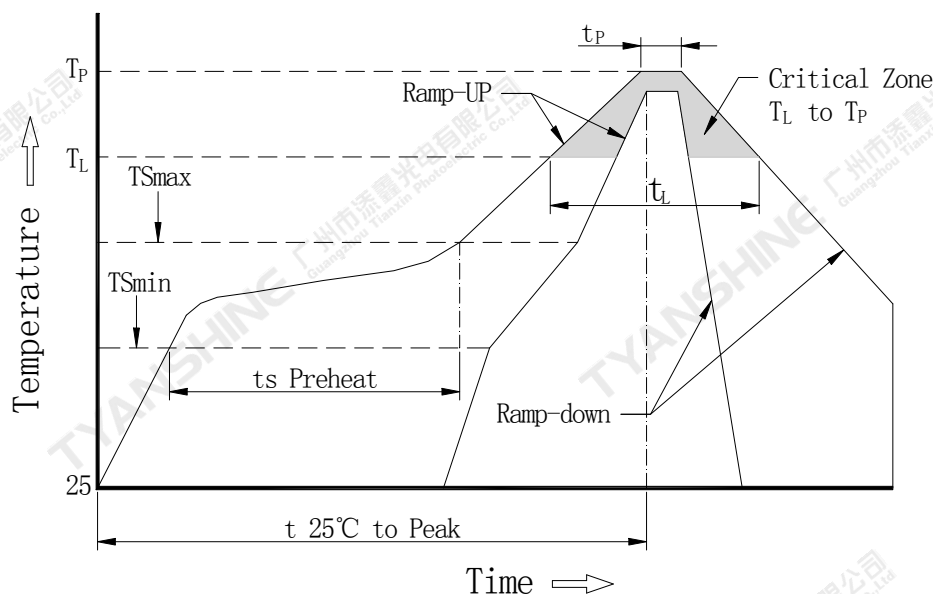
Storage Environment Condition

Temperature: 5°C ~ 30°C (41°F ~ 86°F)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown to the under figure.



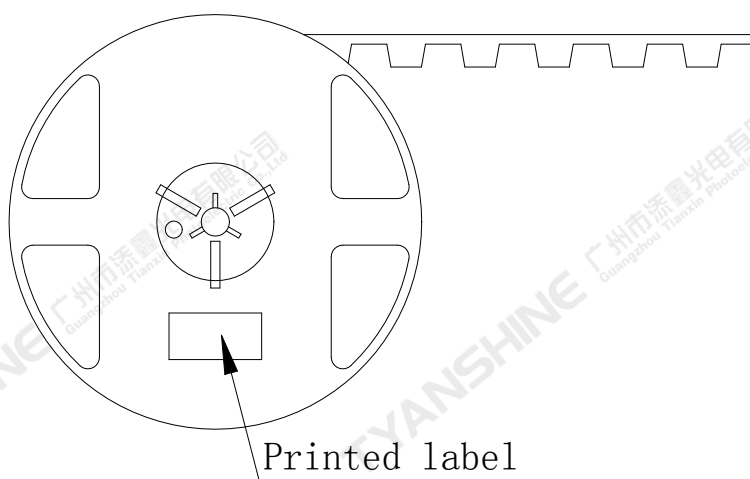
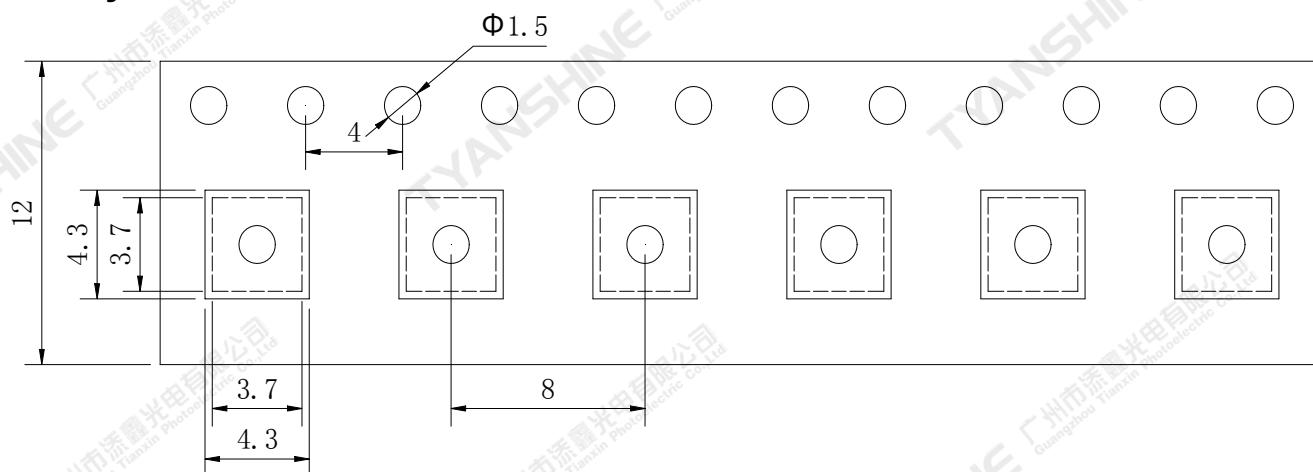
Profile Feature	Lead-Based Solder
Average Ramp-Up Rate (Tsmax to Tp)	3°C/second max.
Preheat: Temperature Min (Tsmin)	100°C
Preheat: Temperature Max (Tsmax)	150°C
Preheat: Time (Tsmin to Tsmax)	60-120 seconds
Time Maintained Above: Temperature (Tl)	183°C
Time Maintained Above: Time (Tl)	60-150 seconds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

Part No.	TX-3535RGS4FC120-OGVCND34-03H80	Spec No.	WKF-BE0216	Page	10 of 10
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