

TX-3535WS5FC120-OGFENW-01H90

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 400 mA.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆GaN
- ◆GaN

Emitting Color:

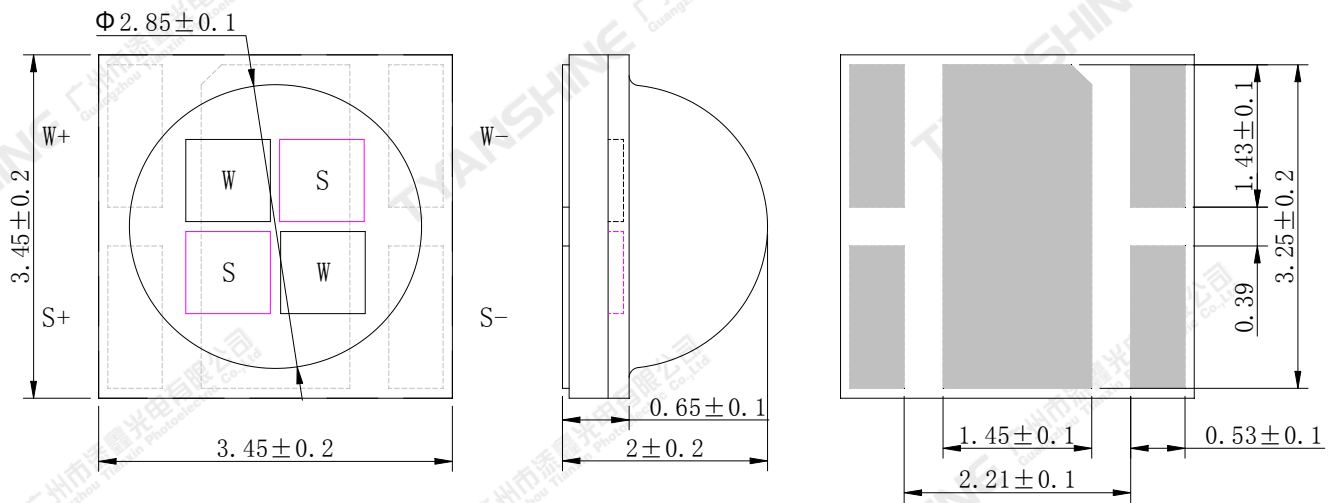
- ◆ white(W)
- ◆ Warm white(S)

Applications:

- ◆Auxiliary lighting
- ◆Architectural lighting
- ◆ General Lighting

Part No.	TX-3535WS5FC120-OGFENW-01H90	Spec No.	WKF-BE0893	Page	1 of 9
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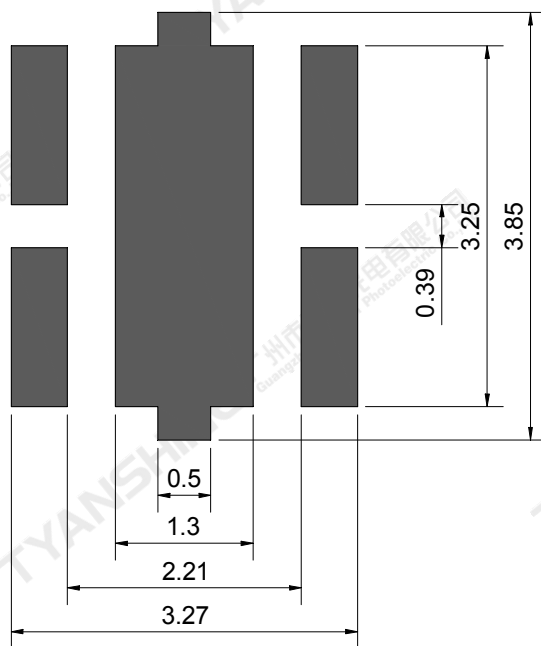
Package Dimensions:



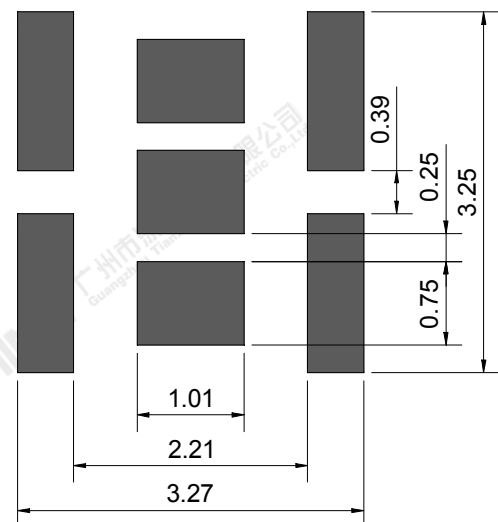
Top view

Side view

Bottom view



Recommended solder pad



Recommended stencil pattern

Notes:

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

Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol		Ratings	Unit
Forward Current	IF	W	400	mA
		S	400	
Reverse Voltage	VR		Not designed for reverse operation	V
Power Dissipation	PD	W	2520	mW
		S	2520	
Junction Temperature	Tj		150	℃
Electrostatic Discharge Threshold (ESD)	ESD		ESD sensitive device	V
Storage Temperature	Tstg		-40~+70	℃
Operation Temperature	Topr		-30~+85	

Notes:

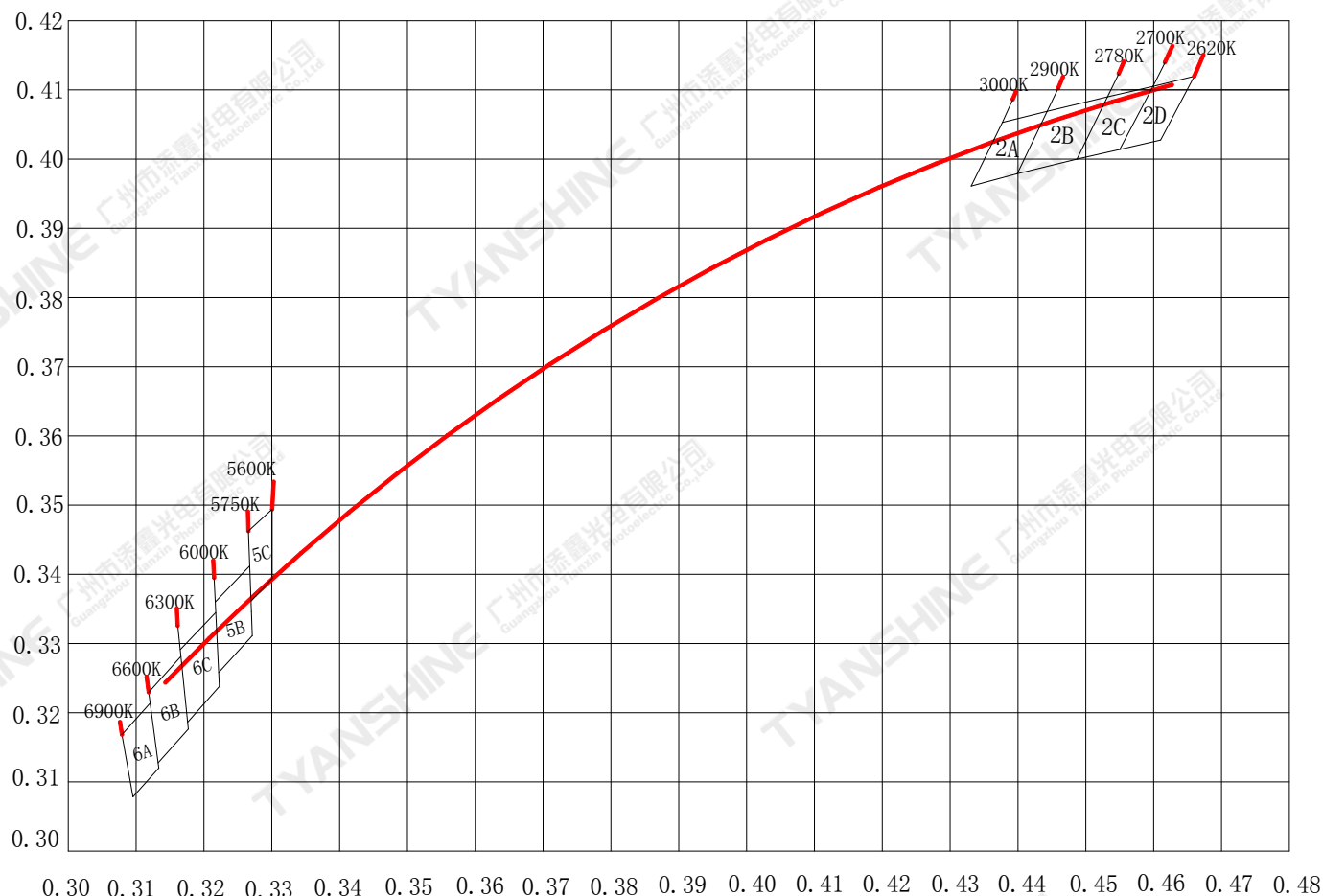
- Specifications are subject to change without notice.
- The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.
- Precautions for ESD:
STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

Electrical Optical Characteristics (Tc=25°C , 350mA)

Parameter	Symbol	Emitting Color	Min.	Typ.	Max.	Units
Luminous Flux	ϕ_v	W	140	180	210	lm
		S	110	150	165	
Correlated Colour Temperature	CCT	W	5600	5870	6900	K
		S	2620	2840	3000	
Color Rendering Index	Ra	W	90	92.5	—	—
		S	90	92.5	—	
Forward Voltage	V_f	W	5.5	5.8	6.1	V
		S	5.5	5.8	6.1	
Viewing Angle at 50 % IV	$2\theta_{1/2}$	W	—	120	—	Deg
		S	—	120	—	
Reverse Current	I_R	—	—	—	—	μA
		—	—	—	—	
Thermal Resistance Junction to Case	$R\theta_{JC}$	W	—	5.0	—	K/W
		S	—	5.0	—	
Temperature Coefficient of Voltage	$V\Delta F/T$	W	—	-5	—	mV/°C
		S	—	-3	—	

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.Luminous flux measurement tolerance:±10%.
- 4.Forward voltage measurement tolerance:±10%V.
- 5.Ra measurement tolerance:±2.

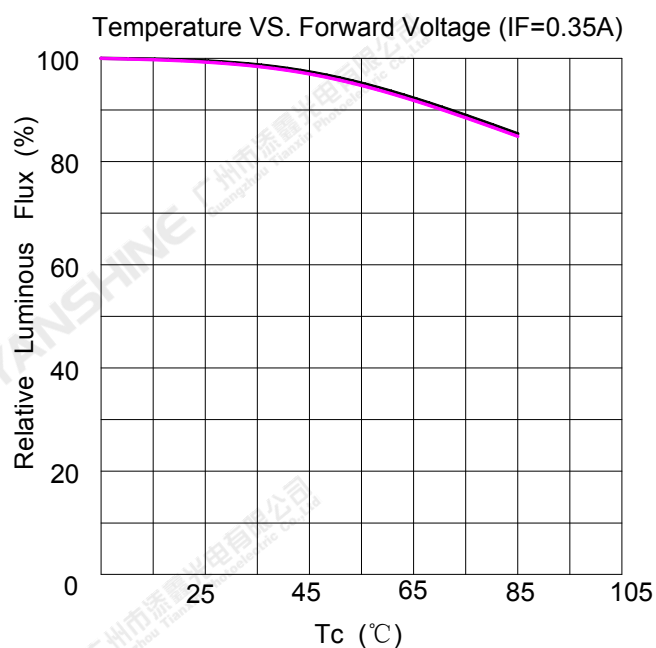
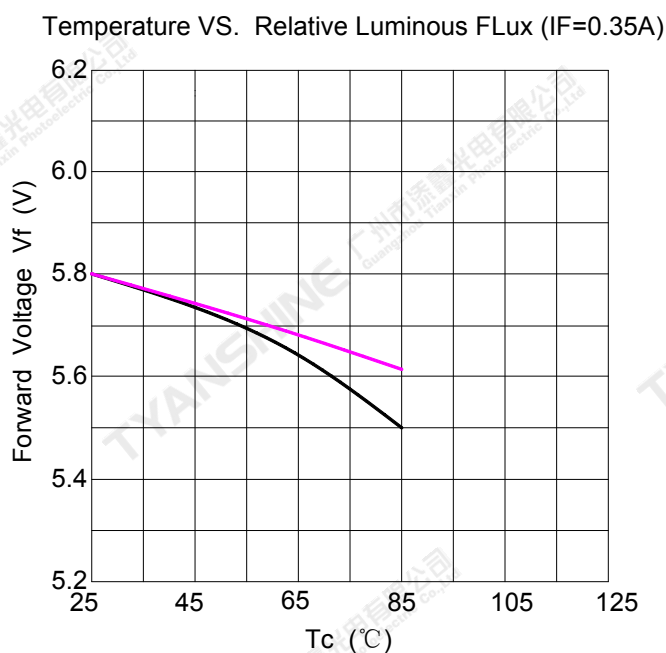
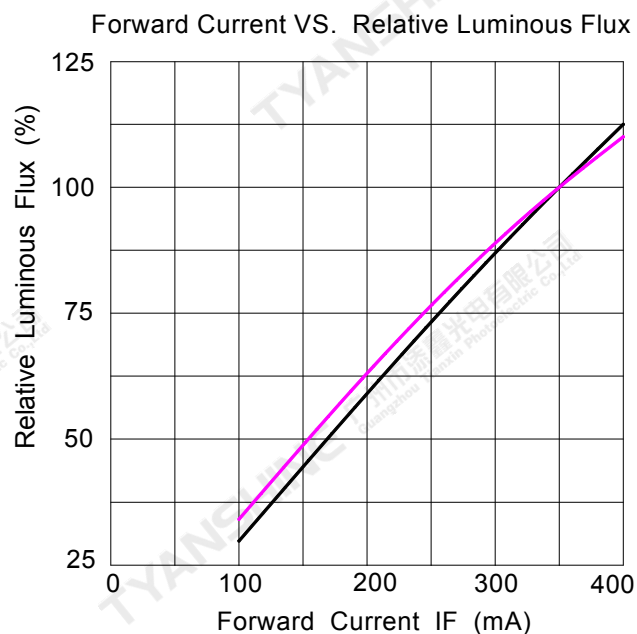
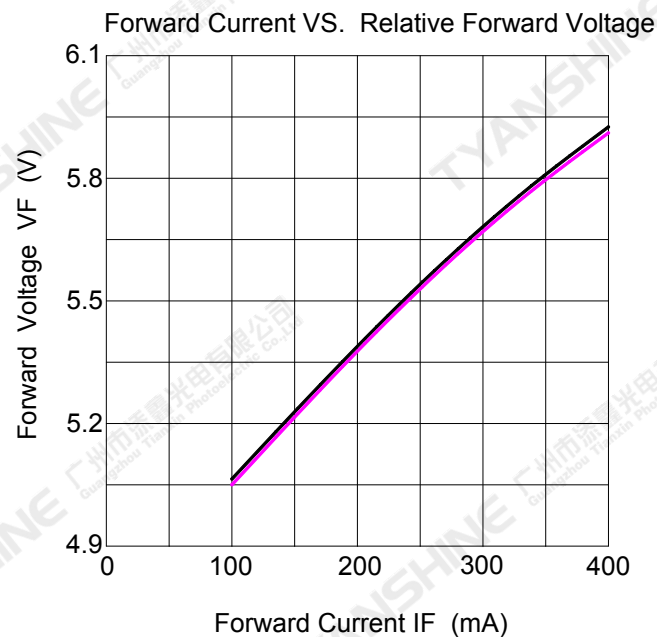


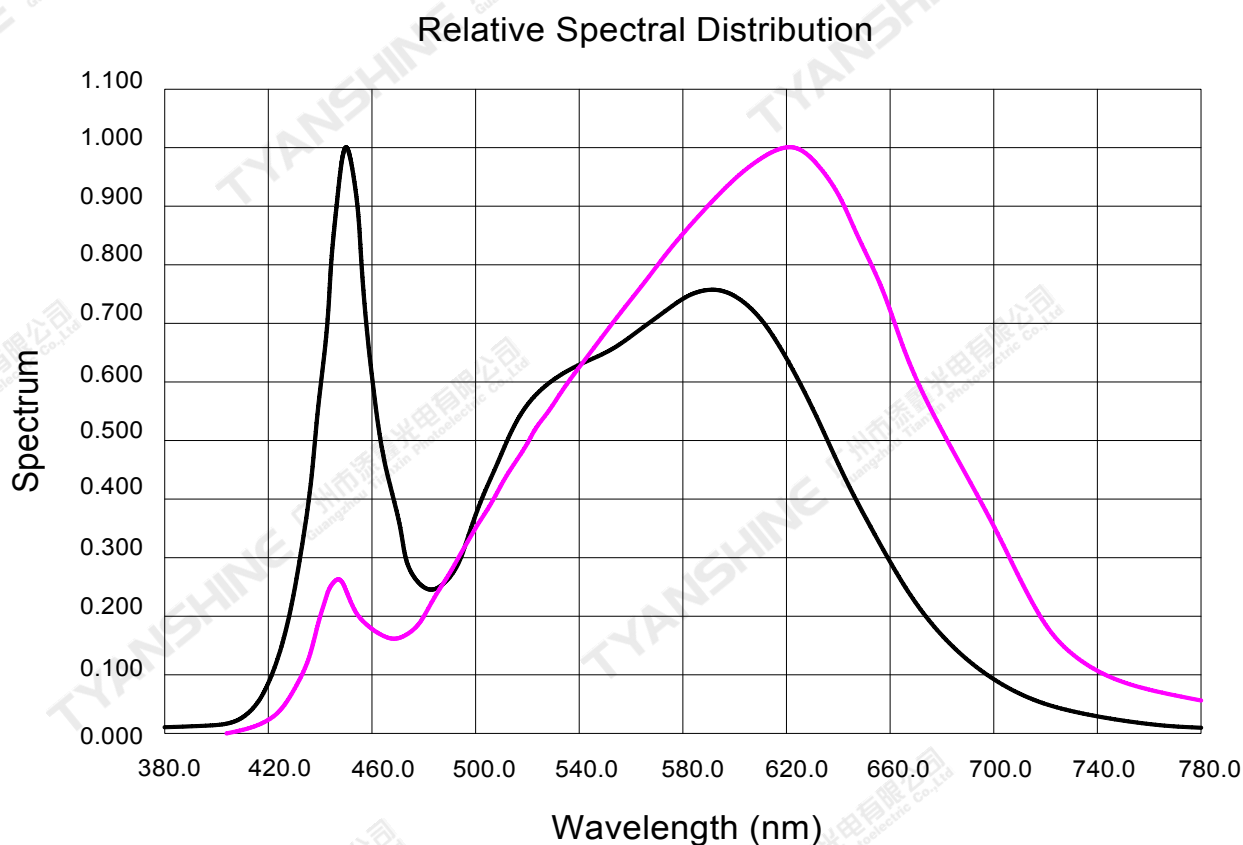
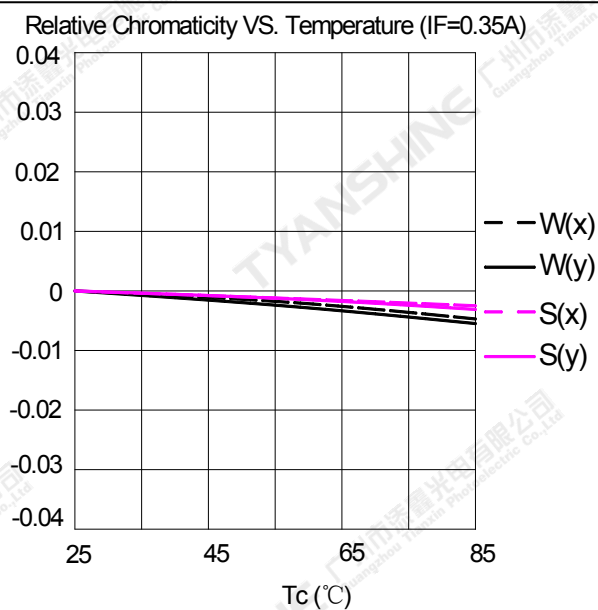
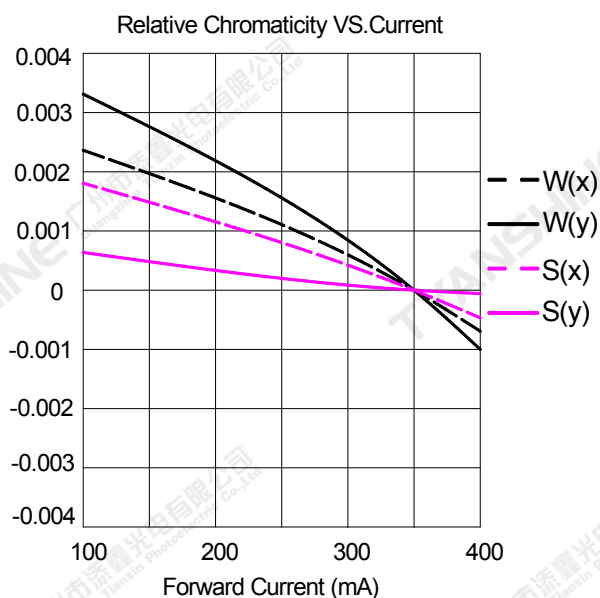
White light Color coordinate filing (IF=350mA)

Region	CCT Range		X1	Y1	X2	Y2	X3	Y3	X4	Y4
	Min	Max								
2D	2620K	2700K	0.6832	0.4200	0.6771	0.4187	0.6820	0.4273	0.6881	0.4292
2C	2700K	2780K	0.6771	0.4187	0.6708	0.4173	0.6753	0.4263	0.6820	0.4273
2B	2780K	2900K	0.6708	0.4173	0.6620	0.4152	0.6664	0.4242	0.6753	0.4263
2A	2900K	3000K	0.6620	0.4152	0.6552	0.4134	0.6598	0.4226	0.6664	0.4242
5C	5600K	5750K	0.5522	0.3566	0.5491	0.3534	0.5487	0.3635	0.5522	0.3667
5B	5750K	6000K	0.5493	0.3484	0.5443	0.3431	0.5438	0.3533	0.5489	0.3585
6C	6000K	6300K	0.5444	0.3411	0.5397	0.3359	0.5386	0.3454	0.5439	0.3517
6B	6300K	6600K	0.5398	0.3349	0.5354	0.3300	0.5340	0.3402	0.5387	0.3454
0.6A	6600K	6900K	0.5355	0.3293	0.5317	0.3251	0.5301	0.3341	0.5342	0.3386

Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

**Notes:** — White (W) ; — Warm white (S) ;



Notes: — White (W) ; — Warm white (S) ;

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

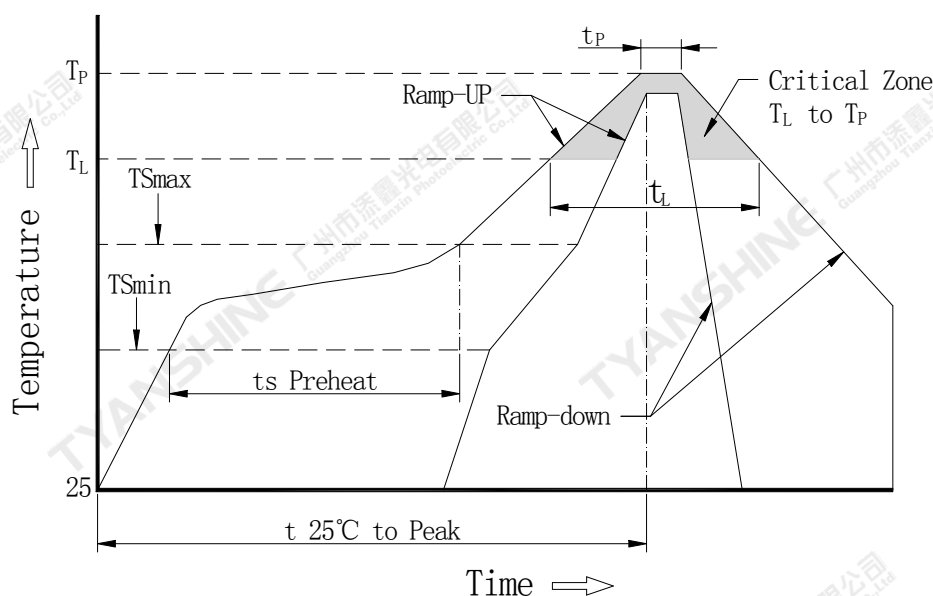
Storage Environment Condition

Temperature: 5°C ~ 30°C (41°F ~ 86°F)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown to the under figure.



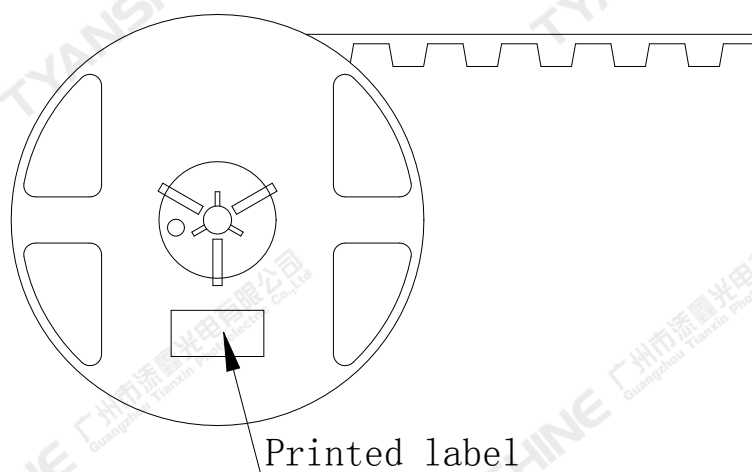
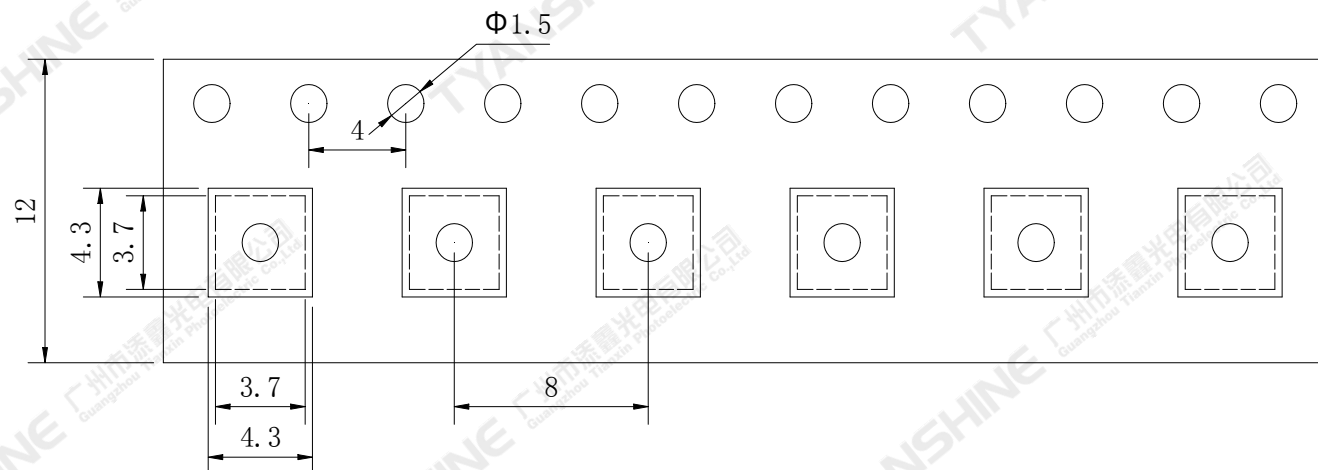
Profile Feature	Lead-Based Solder
Average Ramp-Up Rate (T_{Smax} to T_P)	3°C/second max.
Preheat: Temperature Min (T_{Smin})	100°C
Preheat: Temperature Max (T_{Smax})	150°C
Preheat: Time (T_{Smin} to T_{Smax})	60-120 seconds
Time Maintained Above: Temperature (T_L)	183°C
Time Maintained Above: Time (T_L)	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:1000 PCS



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-3535WS5FC120-OGFENW-01H90	Spec No.	WKF-BE0893	Page	9 of 9
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