

TX-3535W3FC120-OGVCND34-C03FH80

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 1000 A.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆GaN

Emitting Color:

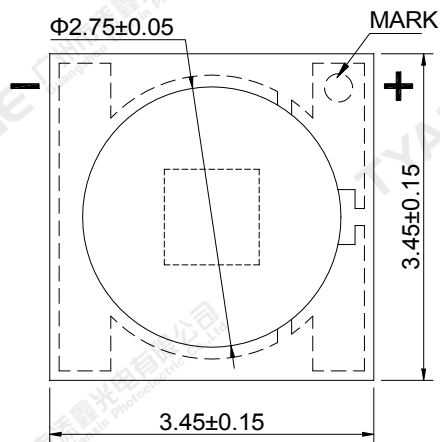
- ◆ White

Applications:

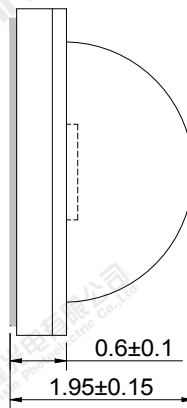
- ◆Indoor lighting
- ◆Outdoor lighting
- ◆ Industrial Lighting
- ◆Consumer Lighting

Part No.	TX-3535W3FC120-OGVCND34-C03FH80	Spec No.	WKF-BE0167	Page	1 of 10
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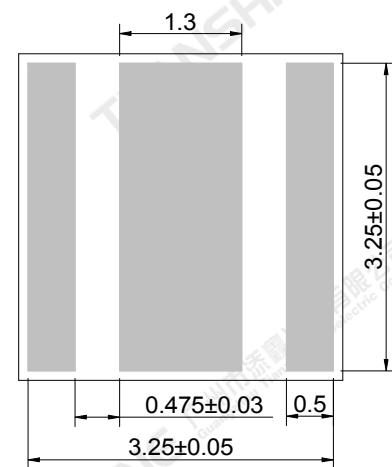
Package Dimensions:



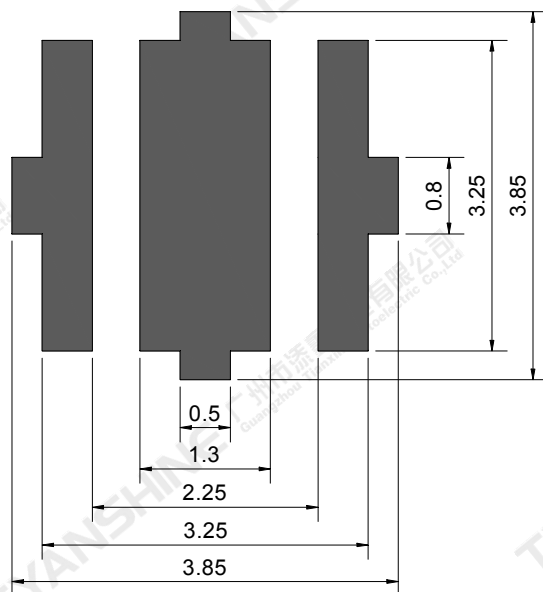
Top view



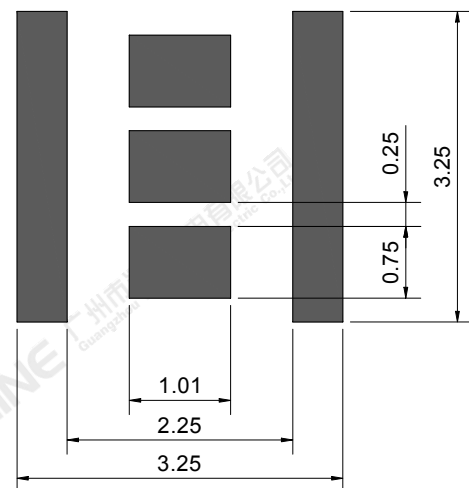
Side view



Bottom view



Recommended solder pad



Recommended stencil pattern

Notes:

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

Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol	Ratings	Unit
Forward Current	IF	1000	mA
Reverse Voltage	VR	7	V
Power Dissipation	PD	3.25	W
Junction Temperature	Tj	150	℃
Electrostatic Discharge Threshold (ESD)	ESD	ESD sensitive device	V
Storage Temperature	Tstg	-40~+70	℃
Operation Temperature	Topr	-30~+85	

Notes:

1.Specifications are subject to change without notice.

2.The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.

..Precautions for ESD:

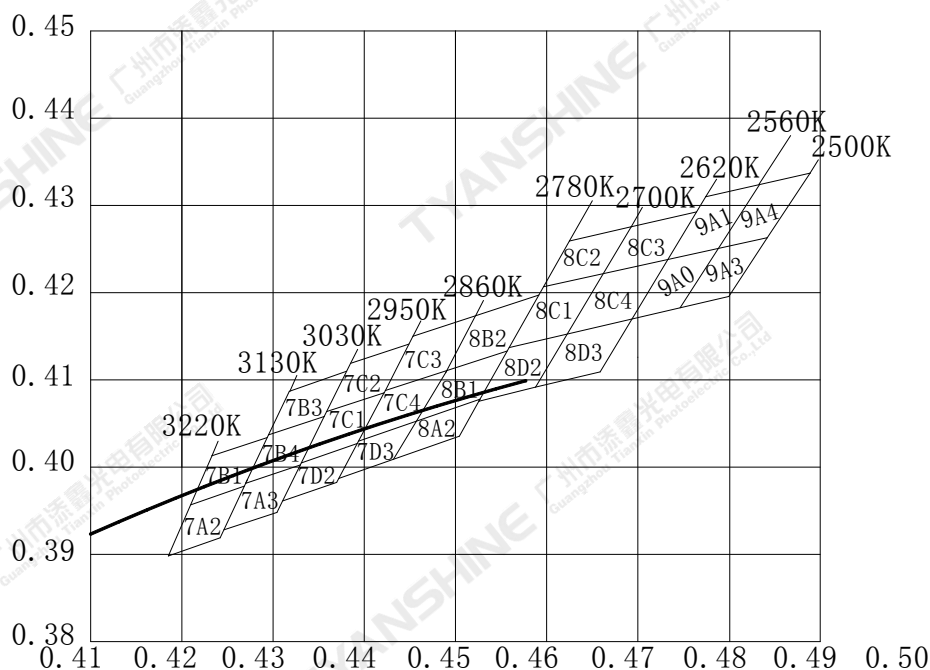
STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

4.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 ℃.

Electrical Optical Characteristics

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Luminous Flux	ϕ_v	If=350mA	85	105	—	lm
Correlated Colour Temperature	CCT		2500	2700	2780	K
			2780	3000	3220	
Color Rendering Index	Ra		80	82.5	—	—
Forward Voltage	V_f		2.7	3.0	3.3	V
Viewing Angle at 50 % IV	$2\theta_{1/2}$	—	—	120	—	Deg
Reverse Current	I_R	$V_R=-7V$	—	—	5	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	If=350mA	—	8.0	—	K/W
Temperature Coefficient of Voltage	$V\triangle F/T$		—	-2	—	mV/°C

White light Color coordinate filing (IF=350mA)



Region	CCT Range		X1	Y1	X2	Y2	X3	Y3	X4	Y4
	Min	Max								
7B1	3130K	3220K	0.4269	0.3978	0.4210	0.3957	0.4233	0.4013	0.4294	0.4034
7A2			0.4242	0.3919	0.4185	0.3898	0.4210	0.3957	0.4269	0.3978
7B3	3030K	3130K	0.4356	0.4058	0.4295	0.4037	0.4318	0.4087	0.4381	0.4110
7B4			0.4330	0.4002	0.4270	0.3981	0.4295	0.4037	0.4356	0.4058
7A3			0.4304	0.3948	0.4246	0.3928	0.4270	0.3981	0.4330	0.4002
7C2	2950K	3030K	0.4422	0.4085	0.4359	0.4064	0.4385	0.4119	0.4449	0.4141
7C1			0.4392	0.4027	0.4331	0.4005	0.4359	0.4064	0.4422	0.4085
7D2			0.4370	0.3982	0.4310	0.3961	0.4331	0.4005	0.4392	0.4027
7C3	2860K	2950K	0.4491	0.4111	0.4423	0.4088	0.4453	0.4150	0.4522	0.4173
7C4			0.4457	0.4053	0.4394	0.4030	0.4423	0.4088	0.4491	0.4111
7D3			0.4432	0.4009	0.4372	0.3987	0.4394	0.4030	0.4457	0.4053
8B2	2780K	2860K	0.4555	0.4133	0.4491	0.4111	0.4522	0.4173	0.4586	0.4295
8B1			0.4529	0.4079	0.4457	0.4053	0.4491	0.4111	0.4555	0.4133
8A2			0.4504	0.4035	0.4432	0.4009	0.4457	0.4053	0.4529	0.4079
8T1	2700K	2780K	0.4703	0.4293	0.4634	0.4277	0.4669	0.4341	0.4741	0.4360
8C2			0.4775	0.4310	0.4597	0.4207	0.4634	0.4277	0.4703	0.4293
8C1			0.4623	0.4153	0.4559	0.4137	0.4597	0.4207	0.4775	0.4310
8T4	2620K	2700K	0.4775	0.4310	0.4703	0.4293	0.4741	0.4360	0.4814	0.4378
8C3			0.4733	0.4238	0.4662	0.4222	0.4703	0.4293	0.4775	0.4310
8C4			0.4694	0.4170	0.4623	0.4153	0.4662	0.4222	0.4733	0.4238
9A1	2560K	2620K	0.4788	0.4251	0.4733	0.4238	0.4775	0.4310	0.4833	0.4324
9A0			0.4746	0.4183	0.4694	0.4170	0.4733	0.4238	0.4788	0.4251
9A4	2500K	2560K	0.4842	0.4263	0.4788	0.4251	0.4833	0.4324	0.4889	0.4337
9A3			0.4800	0.4196	0.4746	0.4183	0.4788	0.4251	0.4842	0.4263

Notes:

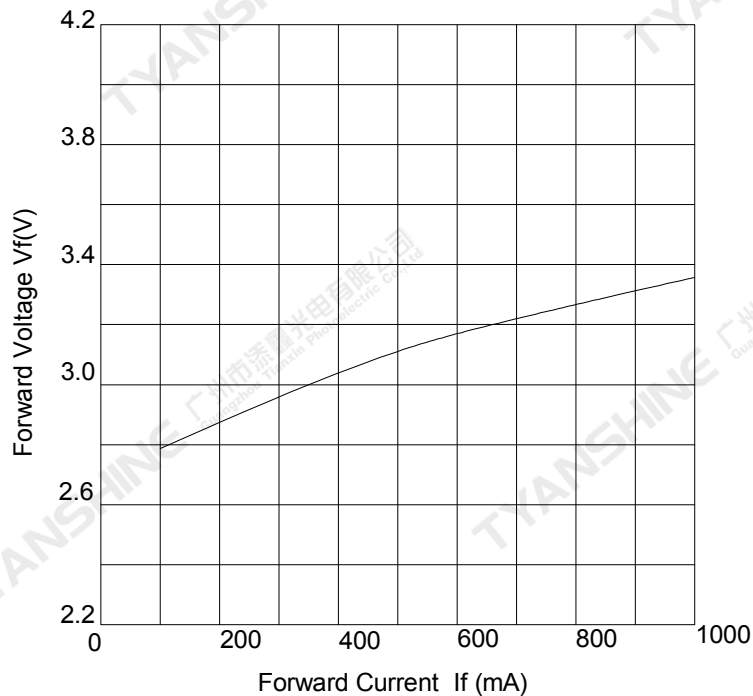
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance: $\pm 10\%$.
- 4.Forward voltage measurement tolerance: $\pm 10\%V$.
- 5.Ra measurement tolerance: ± 2 .

Part No.	TX-3535W3FC120-OGVCND34-C03FH80	Spec No.	WKF-BE0167	Page	5 of 10
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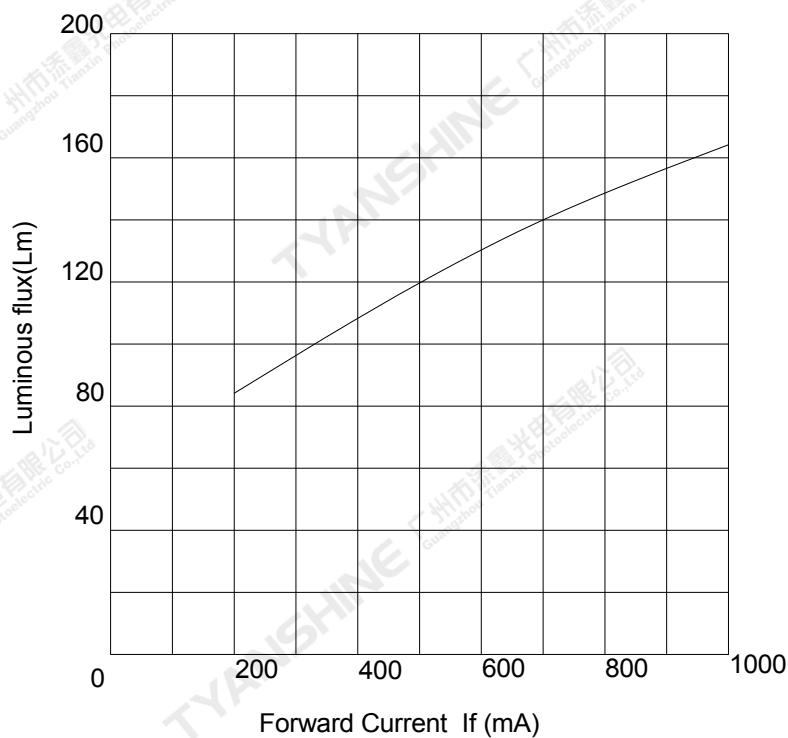
Typical Electrical/Optical Characteristics Curves

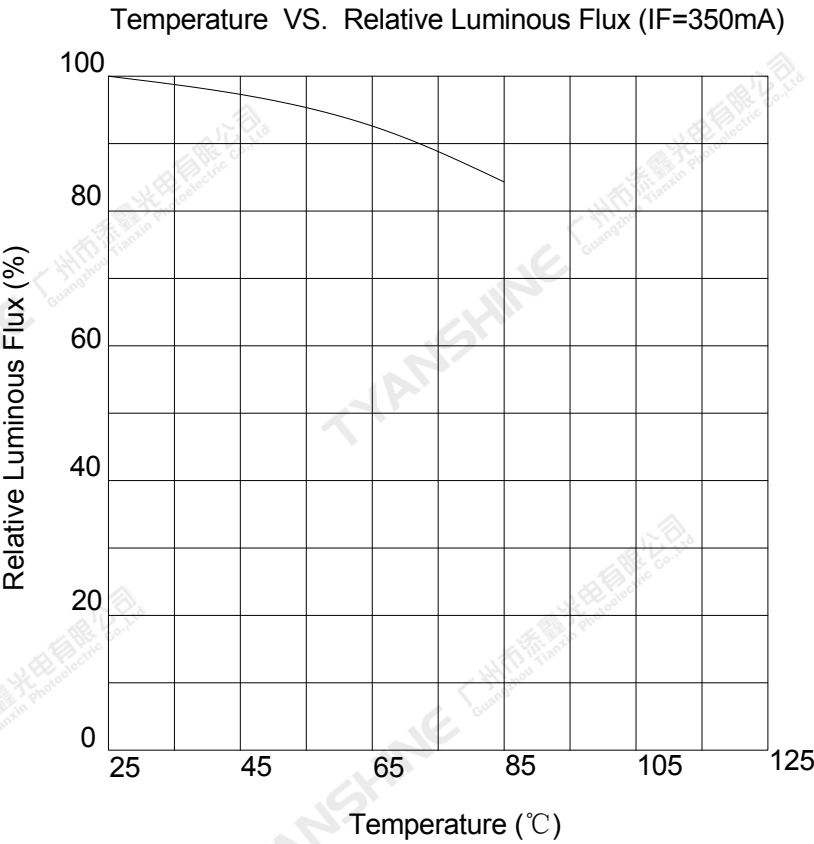
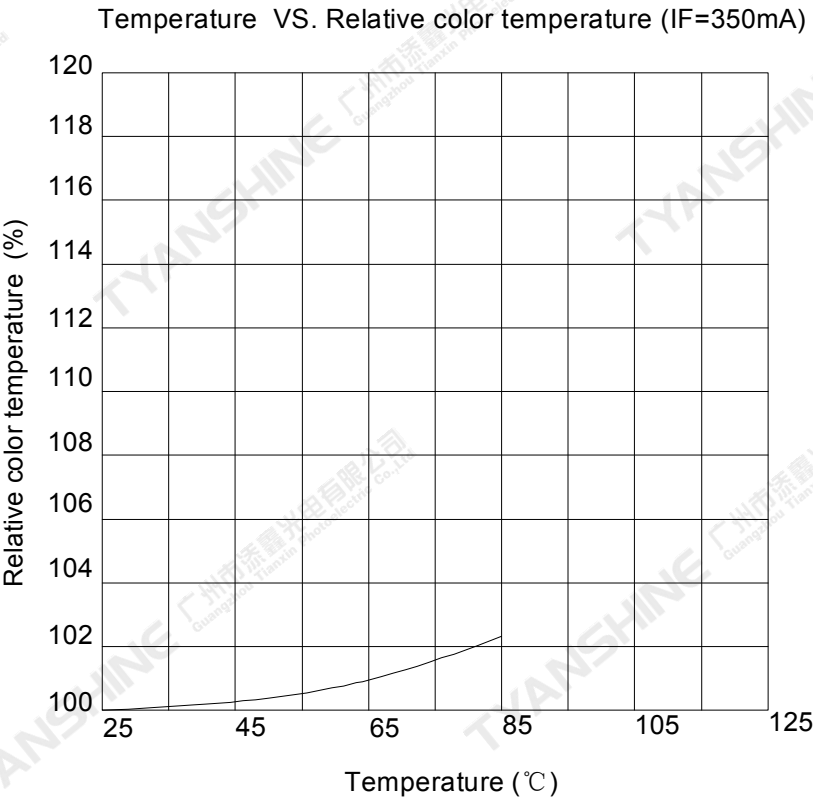
(25°C Ambient Temperature Unless Otherwise Noted)

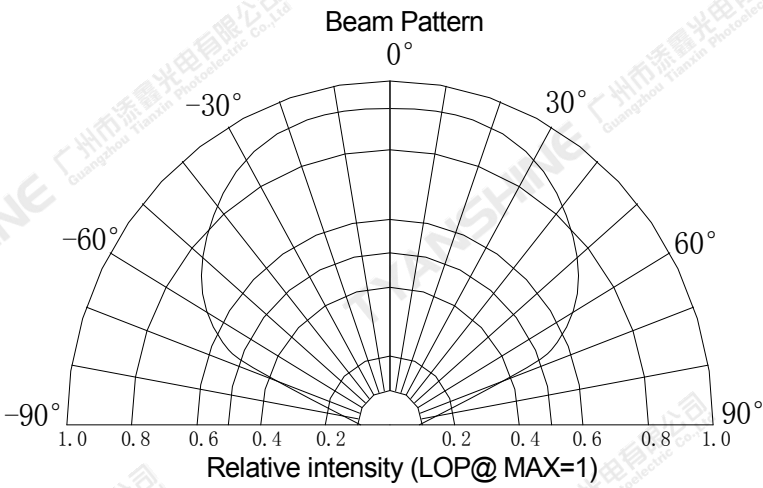
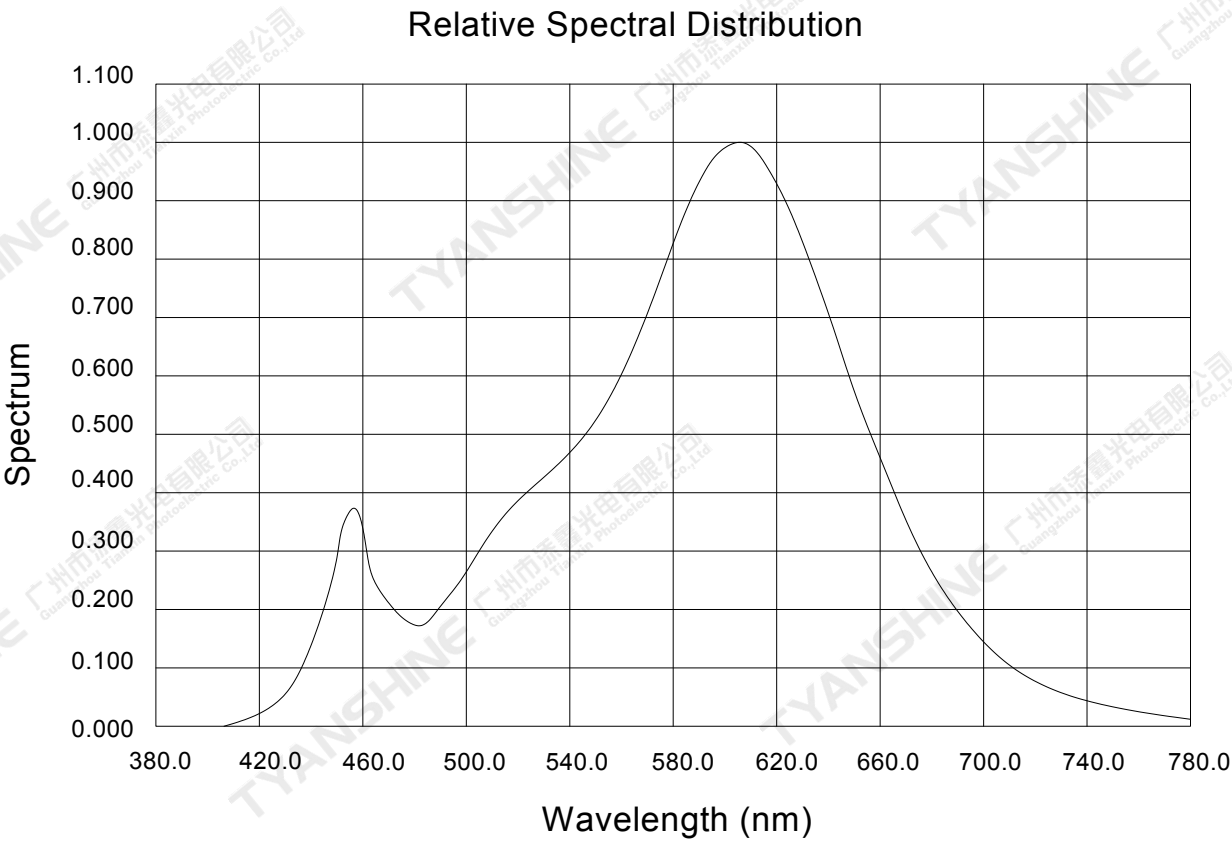
Forward Current VS. Forward Voltage



Forward Current VS. Luminous flux







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

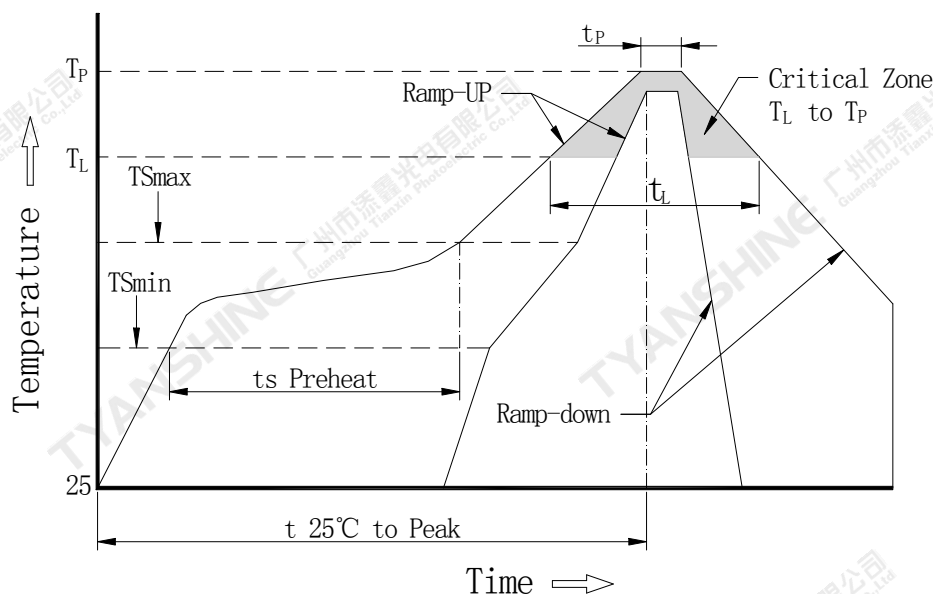
Storage Environment Condition

Temperature: 5°C ~ 30°C (41°F ~ 86°F)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown to the under figure.



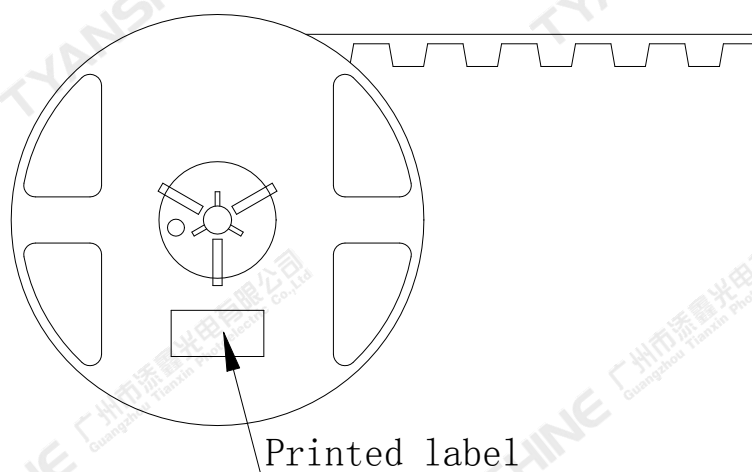
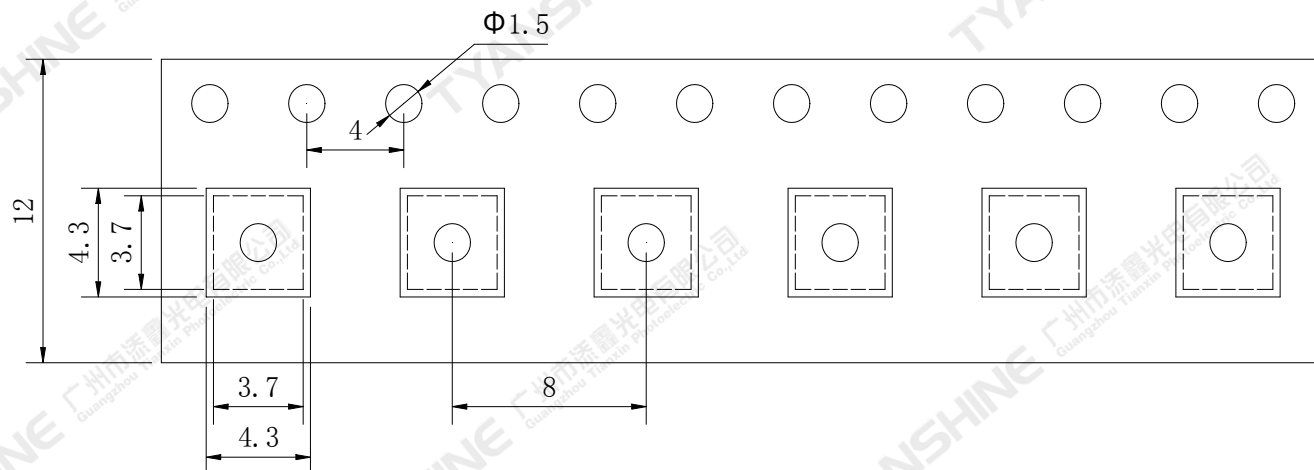
Profile Feature	Lead-Based Solder
Average Ramp-Up Rate (Tsmax to Tp)	3°C/second max.
Preheat: Temperature Min (Tsmin)	100°C
Preheat: Temperature Max (Tsmax)	150°C
Preheat: Time (Tsmin to Tsmax)	60-120 seconds
Time Maintained Above: Temperature (Tl)	183°C
Time Maintained Above: Time (Tl)	60-150 seconds
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: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-3535W3FC120-OGVCND34-C03FH80	Spec No.	WKF-BE0167	Page	10 of 10
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