

TX-3535A3FCA1-0G4DB-01

PRODUCT SPECIFICATION

Features:

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

Moisture Proof Grade:

- ◆ LEVEL1

Emitting Color:

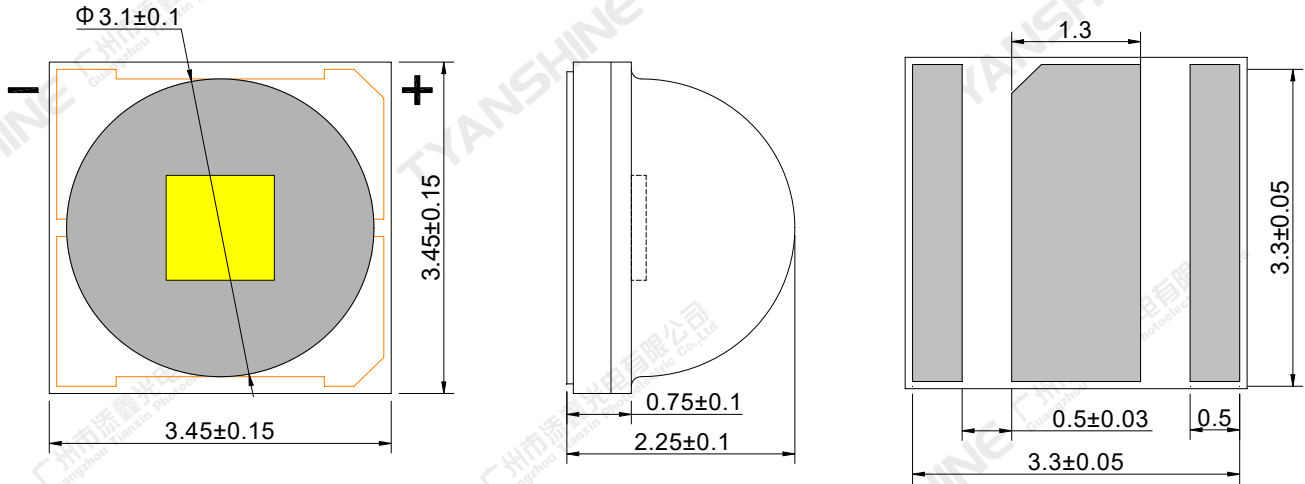
- ◆ PC Amber (A)

Applications:

- ◆ Portable Flashlight
- ◆ Garden lighting
- ◆ General Lighting

Part No.	TX-3535A3FCA1-0G4DB-01	Spec No.	WKF-ED0190	Page	1 of 9
----------	------------------------	----------	------------	------	--------

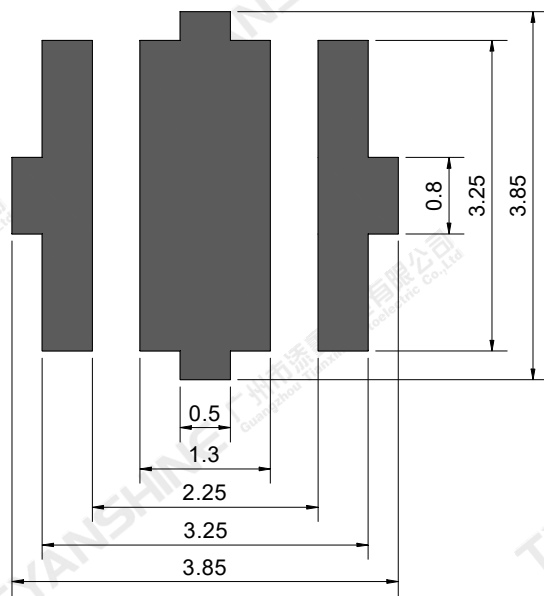
Package Dimensions:



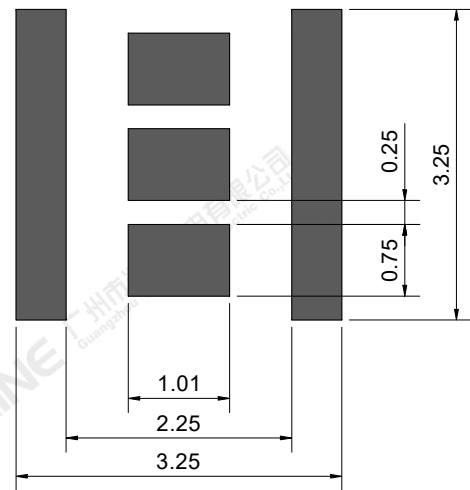
Top view

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 .

Part No.	TX-3535A3FCA1-0G4DB-01	Spec No.	WKF-ED0190	Page	2 of 9
----------	------------------------	----------	------------	------	--------

Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbol	Ratings	Unit
Forward Current	IF	1000	mA
Reverse Voltage	VR	7	V
Reverse Current	IR	5	μA
Power Dissipation	PD	2900	mW
Junction Temperature	Tj	150	°C
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	Tstg	-40~+70	°C
Operation Temperature	Topr	-30~+85	
Ceramic side temperature(notes 4)	Tcs	85	

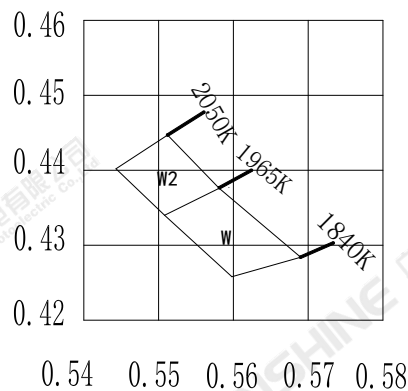
Notes:

- 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.
- Temperature on the side of the ceramic substrate near the heat sink.

Electrical Optical Characteristics

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Luminous Flux	ϕ_v	If=350mA	105	115	125	lm
Correlated Colour Temperature	CCT		1840	1930	2050	K
Forward Voltage	V_f		2.7	2.9	3.2	V
Spectral Line Half-Width	$\Delta\lambda$		65	72	84	nm
Viewing Angle at 50% IV	$2\theta_{1/2}$		—	120	—	Deg
Reverse Current	I_R	7V	—	—	5	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	—	6.0	—	K/W
Temperature Coefficient of Voltage	$V\Delta F/T$	If=350mA	—	-1.3	—	mV/°C

White light Color coordinate filing (IF=350mA)



Region	CCT Range		X1	Y1	X2	Y2	X3	Y3	X4	Y4
	Min	Max								
W	1840K	1965K	0.5598	0.4258	0.5508	0.4340	0.5581	0.4376	0.5690	0.4284
W2	1965K	2050K	0.5508	0.4340	0.5443	0.4402	0.5512	0.4447	0.5581	0.4376

Notes:

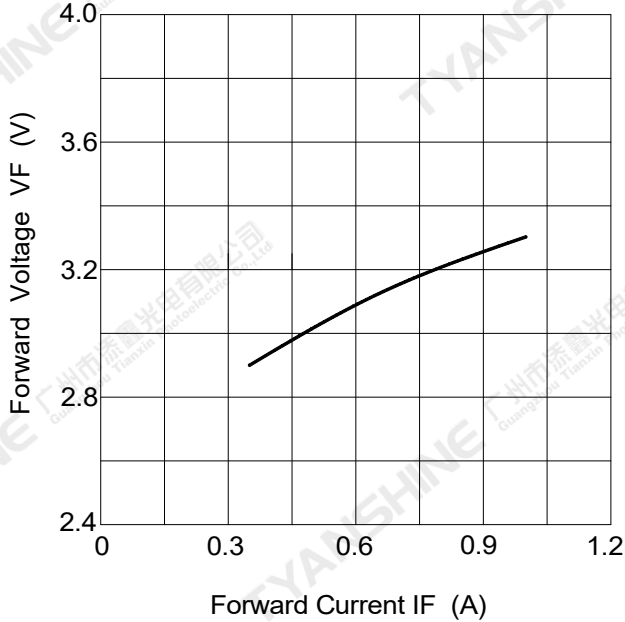
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance:±15%.
- 4.Forward voltage measurement tolerance:±0.15V.

Part No.	TX-3535A3FCA1-0G4DB-01	Spec No.	WKF-ED0190	Page	4 of 9
----------	------------------------	----------	------------	------	--------

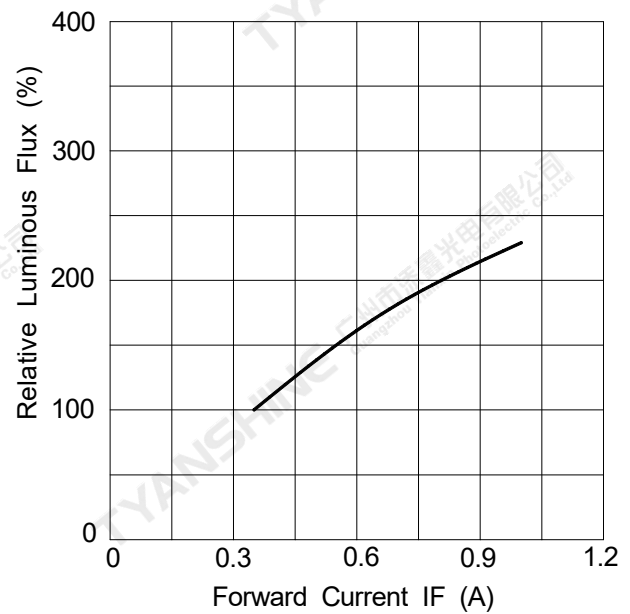
Typical Electrical/Optical Characteristics Curves(IF=350mA)

(25°C Ambient Temperature Unless Otherwise Noted)

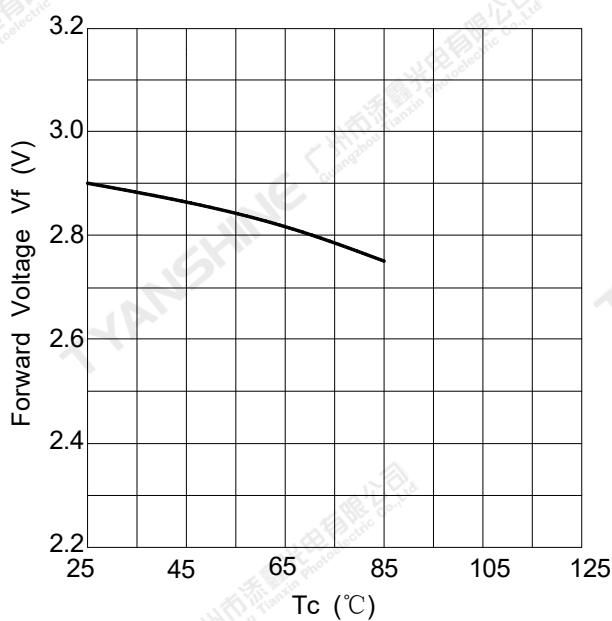
Forward Current VS. Relative Forward Voltage



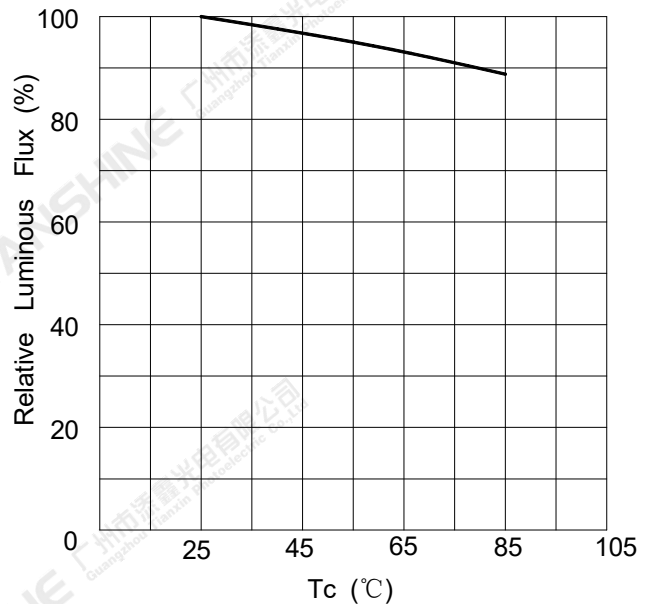
Forward Current VS. Relative Luminous Flux



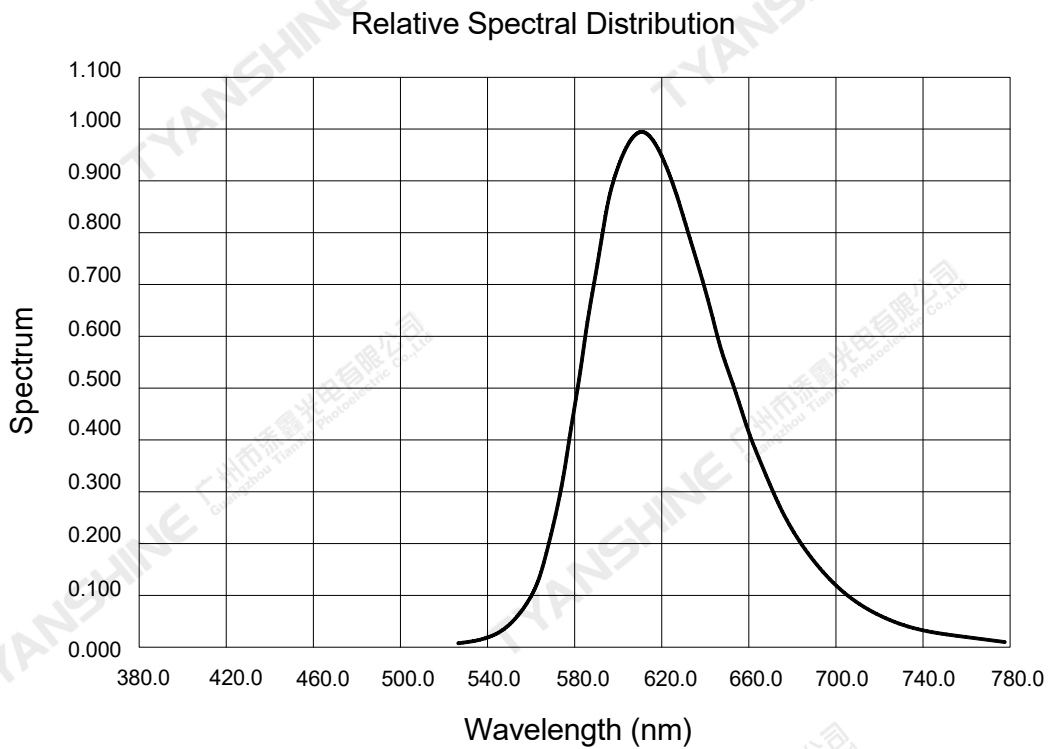
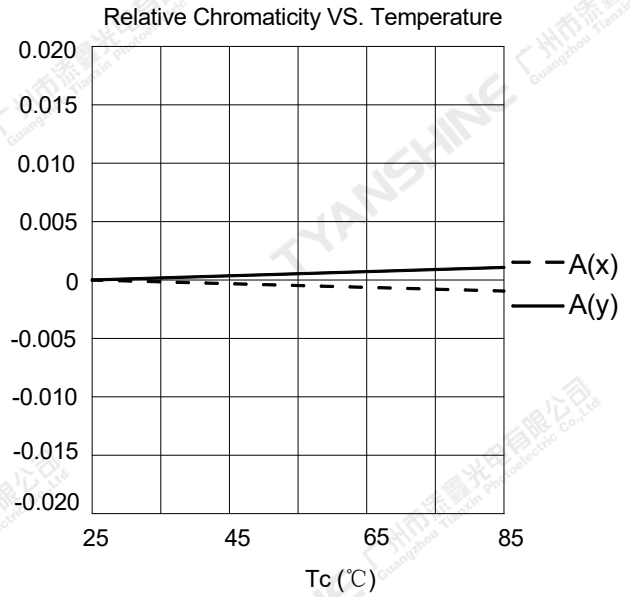
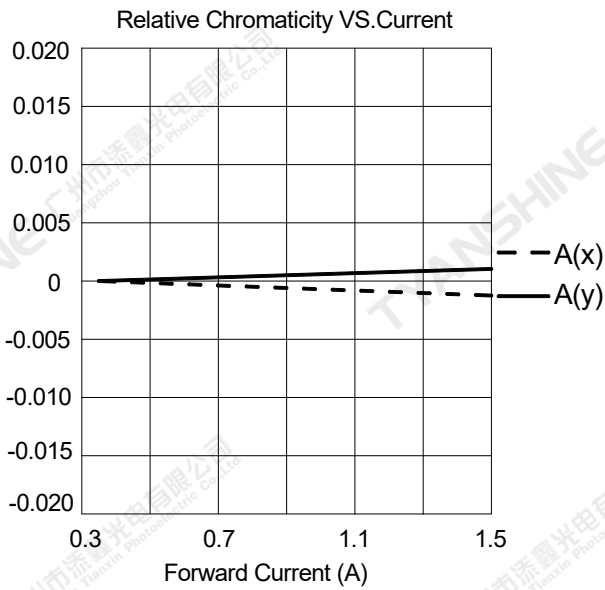
Temperature VS. Relative Forward Voltage



Temperature VS. Relative Luminous FLux



Notes: ■ PC Amber (A) ;



Notes: PC Amber (A) ;

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 $\pm 5^\circ$.

Part No.	TX-3535A3FCA1-0G4DB-01	Spec No.	WKF-ED0190	Page	6 of 9
----------	------------------------	----------	------------	------	--------

Usage Precautions

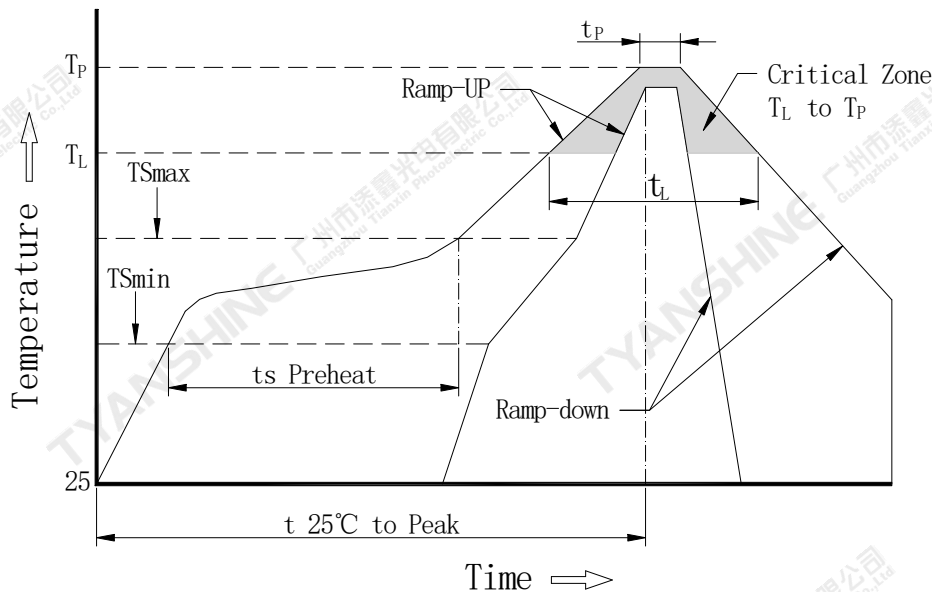
Storage Environment Condition

Temperature: 5°C ~ 30°C (41°F ~ 86°F)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown to the under figure.



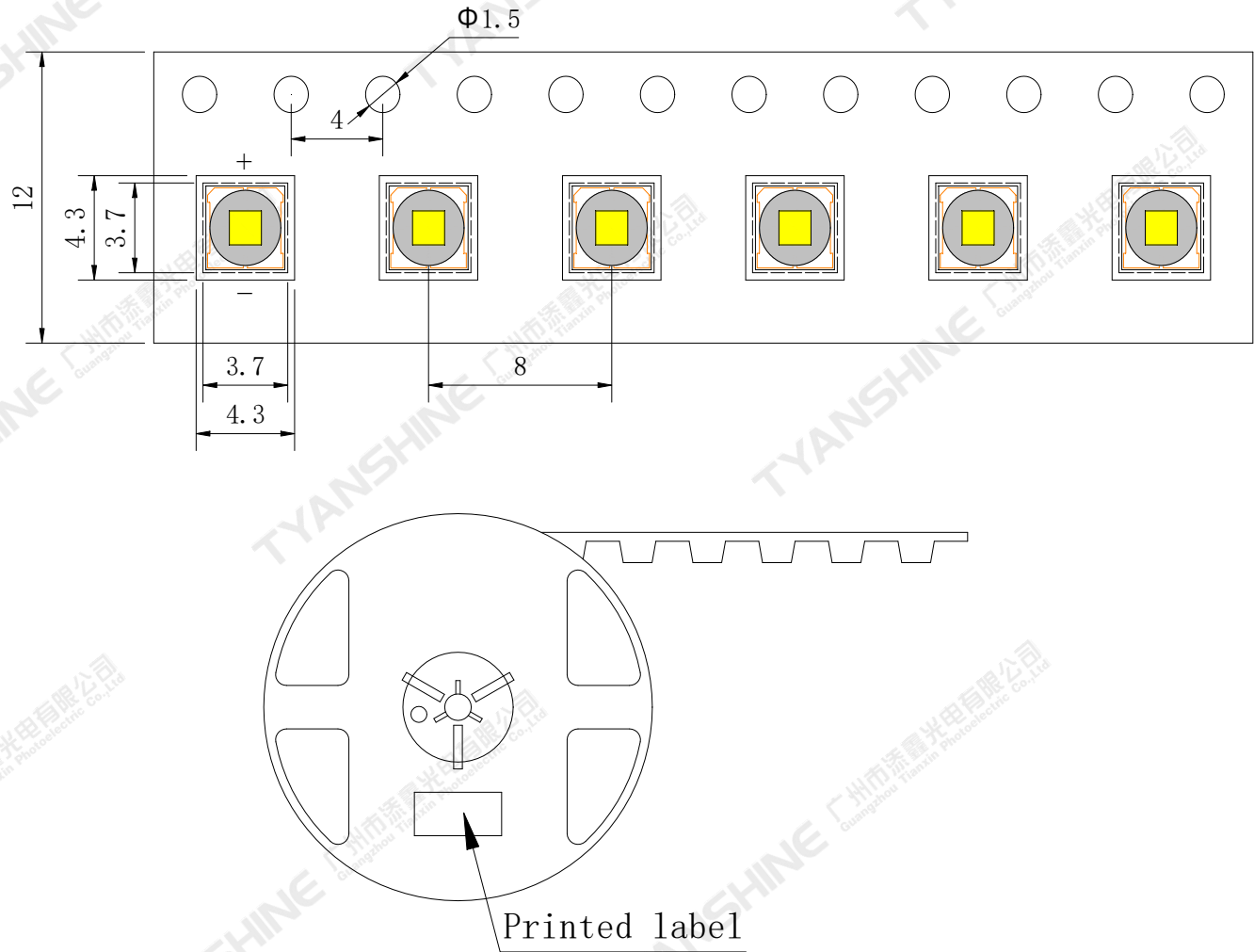
Profile Feature	Pb-Free Solderr(SnBi35Ag0.3)
Average Ramp-Up Rate (TSmax to TP)	3°C/second max.
Preheat: Temperature Min (TSmin)	130°C
Preheat: Temperature Max (TSmax)	190°C
Preheat: Time (TSmin to TSmax)	120-180 seconds
Time Maintained Above: Temperature (TL)	230°C
Time Maintained Above: Time (TL)	60-150 seconds
Peak/Classification Temperature (TP)	255°C
Time Within 5°C of Actual Peak Temperature (TP)	10-35seconds
Ramp-Down Rate	5°C/second max.
Time 25°C to Peak Temperature	7 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-3535A3FCA1-0G4DB-01	Spec No.	WKF-ED0190	Page	8 of 9
----------	------------------------	----------	------------	------	--------

产品规格书变更履历表

版本	变更内容描述		生效日期
	变更前内容	变更后内容	
1.0	初次发行	-	2024.05.10