

TX-3535A5FSA1-0G4DB-01

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 1500mA.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆GaN

Emitting Color:

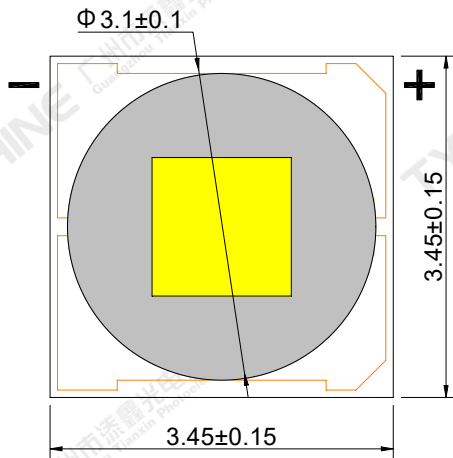
- ◆ PC Amber (A)

Applications:

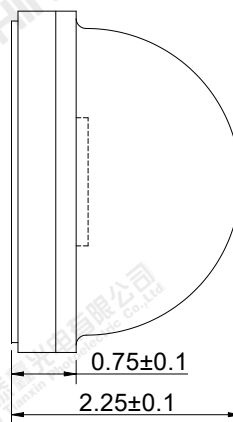
- ◆ Portable Flashlight
- ◆ Garden lighting
- ◆ General Lighting

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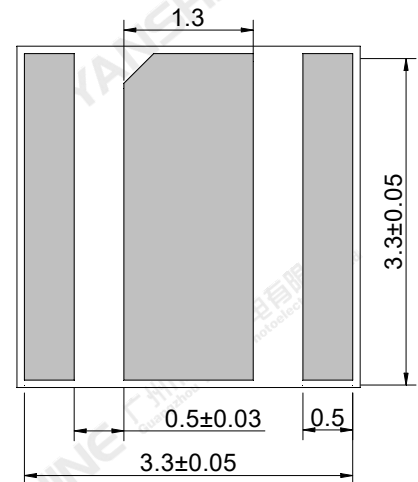
Package Dimensions:



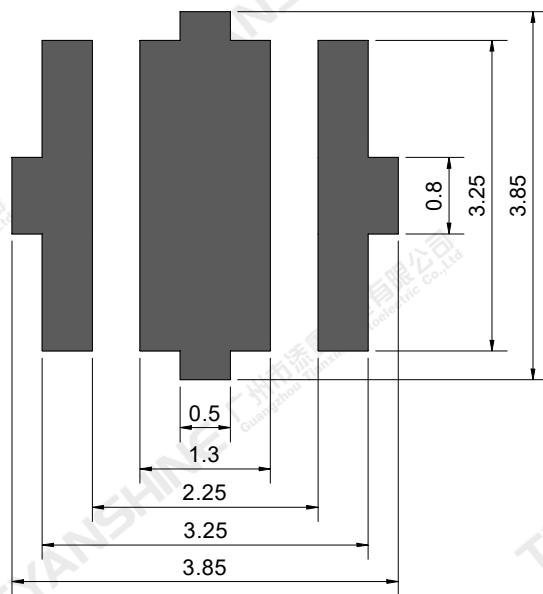
Top view



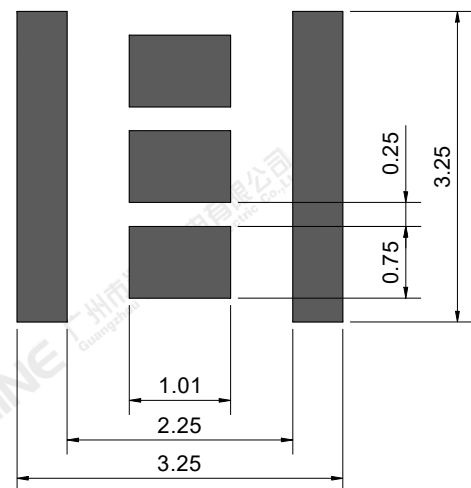
Side view



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	1500	mA
Reverse Voltage	V _R	7	V
Reverse Current	I _R	5	μA
Power Dissipation	P _D	4500	mW
Junction Temperature	T _j	150	℃
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	T _{stg}	-40~+70	℃
Operation Temperature	T _{opr}	-30~+85	

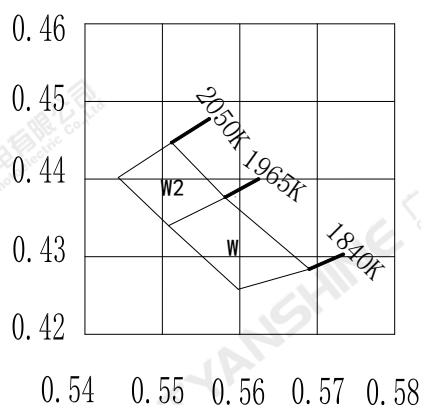
Notes:

- 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.
- 3.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

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Luminous Flux	ϕ_v	If=350mA	100	111	122	lm
Correlated Colour Temperature	CCT		1840	1930	2050	K
Forward Voltage	V_f		2.7	2.85	3.0	V
Peak Emission Wavelength	λ_p		598	603	608	nm
Dominant Wavelength	λ_d		585	590	595	nm
Spectral Line Half-Width	$\Delta\lambda$		80	90	100	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

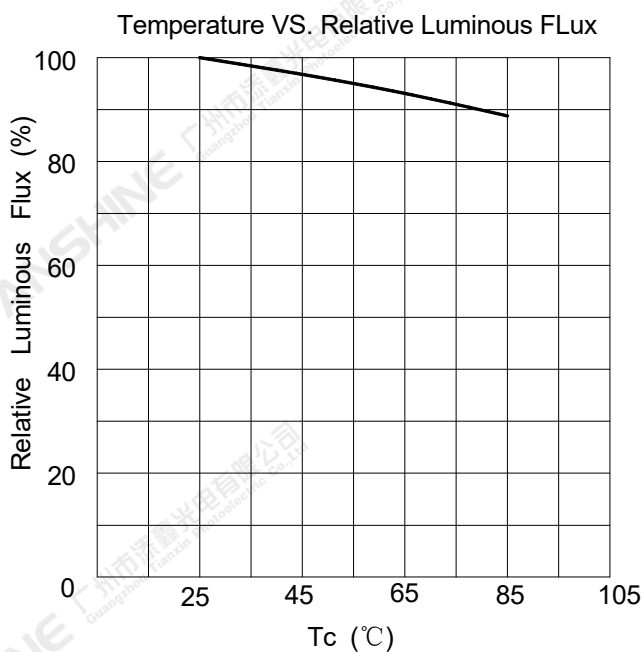
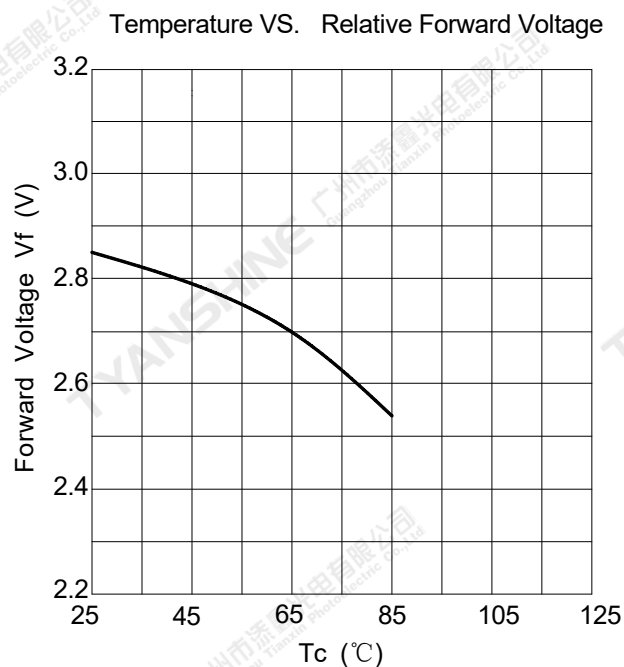
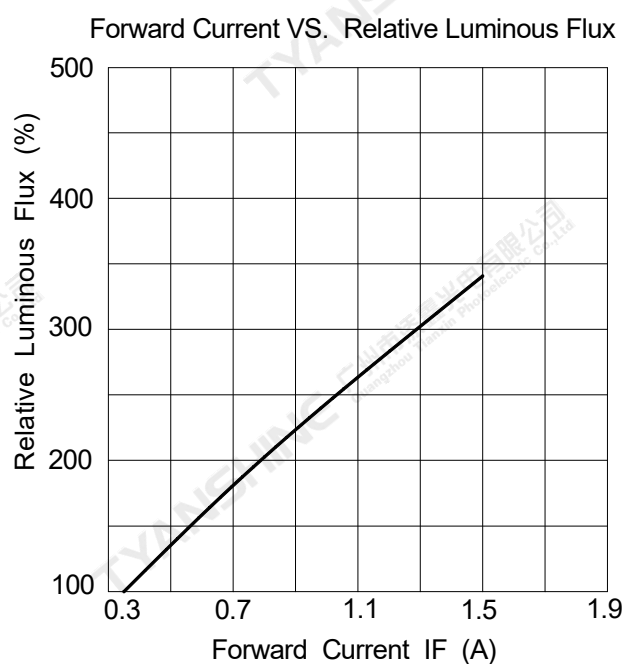
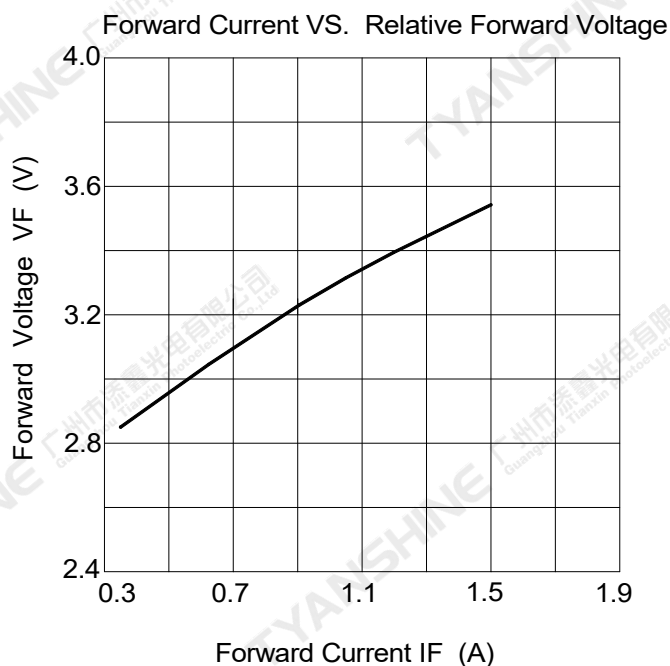
Notes:

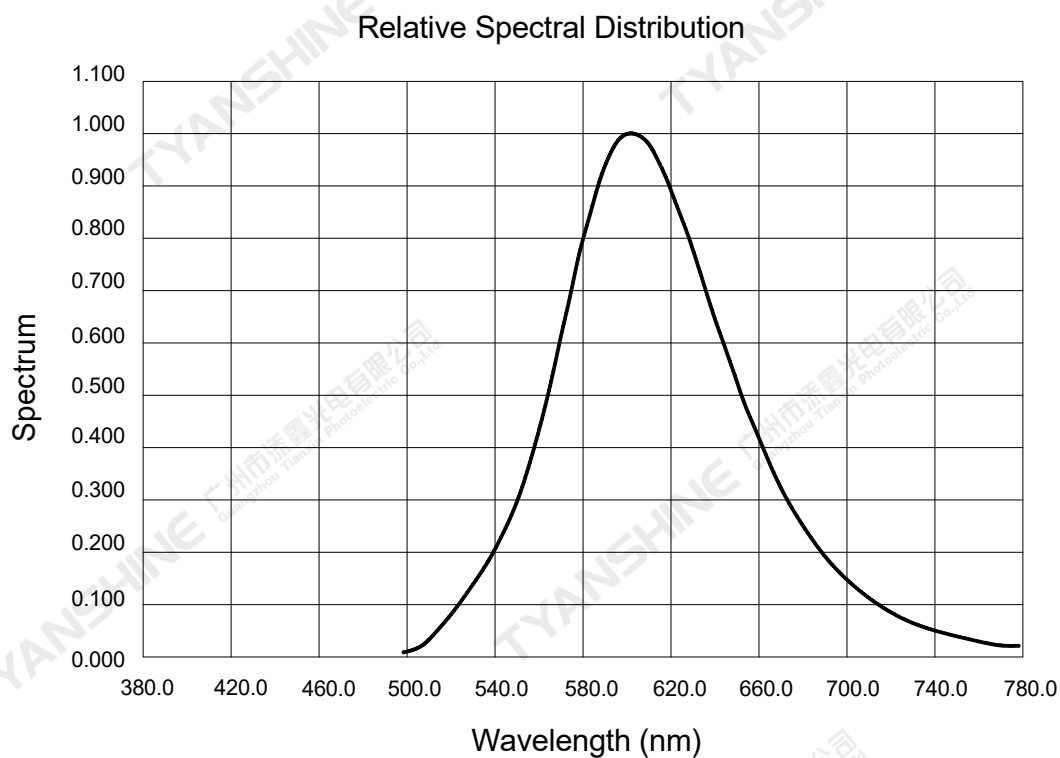
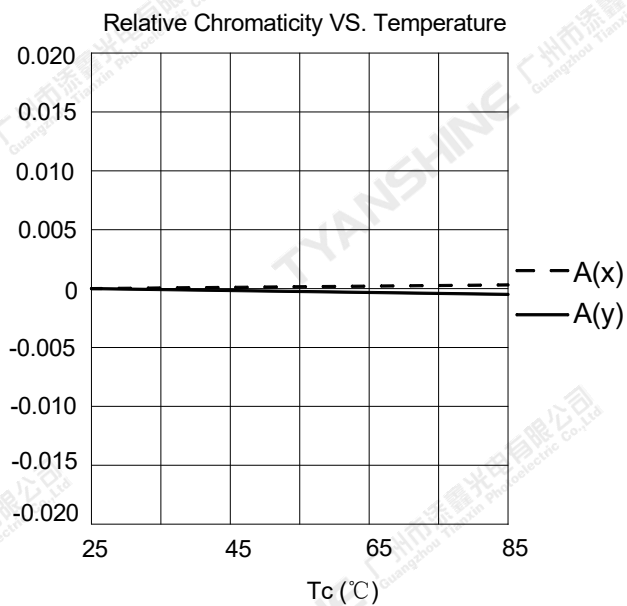
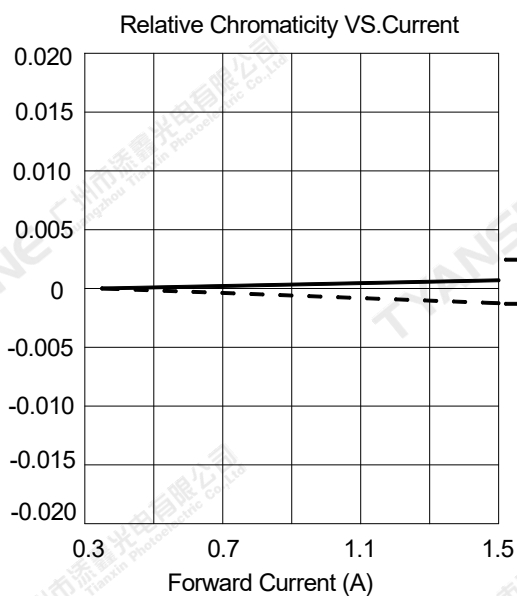
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance:±15%.
- 4.Forward voltage measurement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

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

(25°C Ambient Temperature Unless Otherwise Noted)

**Notes:** ■ PC Amber (A) ;



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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

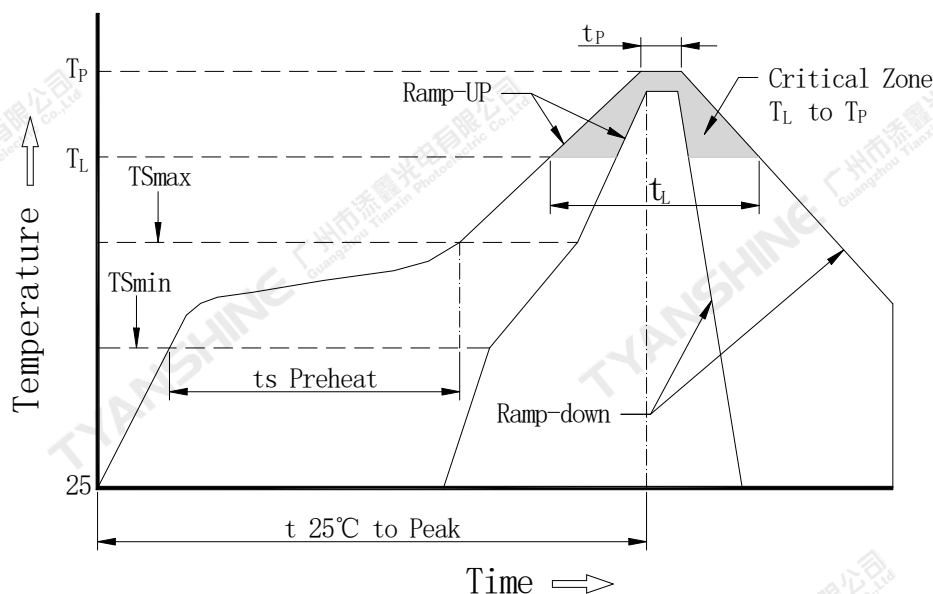
Storage Environment Condition

Temperature: 5°C ~ 30°C (41°F ~ 86°F)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown to the under figure.



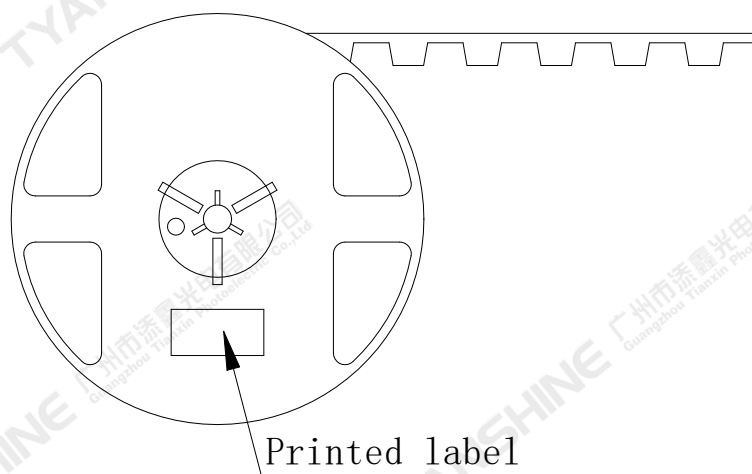
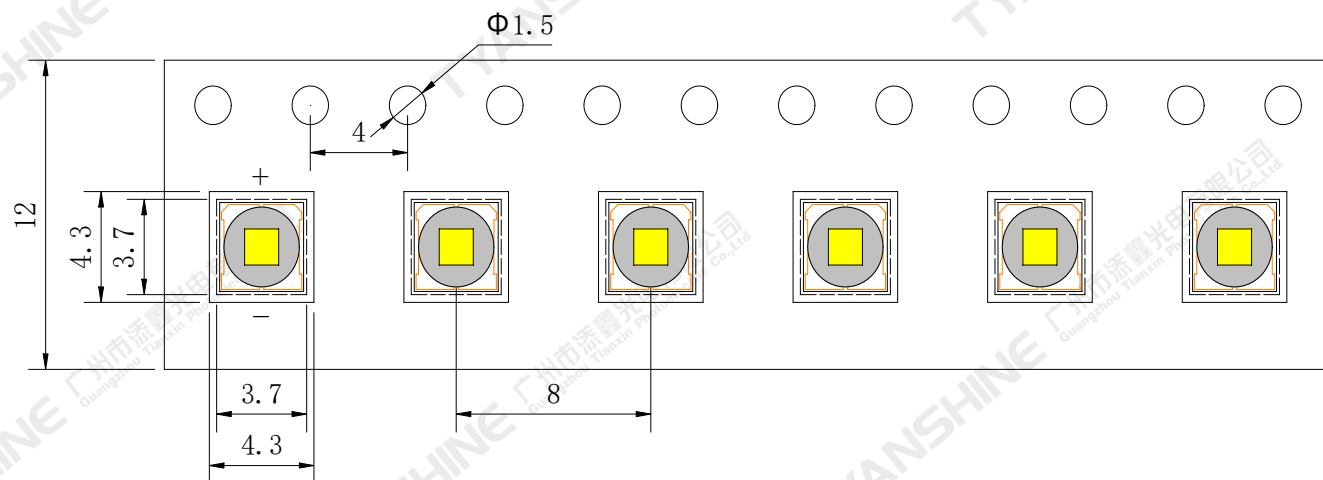
Profile Feature	Pb-Free Solderr(SnBi35Ag0.3)
Average Ramp-Up Rate (T_{Smax} to T_P)	3°C/second max.
Preheat: Temperature Min (T_{Smin})	130°C
Preheat: Temperature Max (T_{Smax})	190°C
Preheat: Time (T_{Smin} to T_{Smax})	120-180 seconds
Time Maintained Above: Temperature (T_L)	230°C
Time Maintained Above: Time (T_L)	60-150 seconds
Peak/Classification Temperature (T_P)	255°C
Time Within 5°C of Actual Peak Temperature (T_P)	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.

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