

TX-3535R5FC120-OGVCND34-03F

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 1.2 A.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆GaN

Emitting Color:

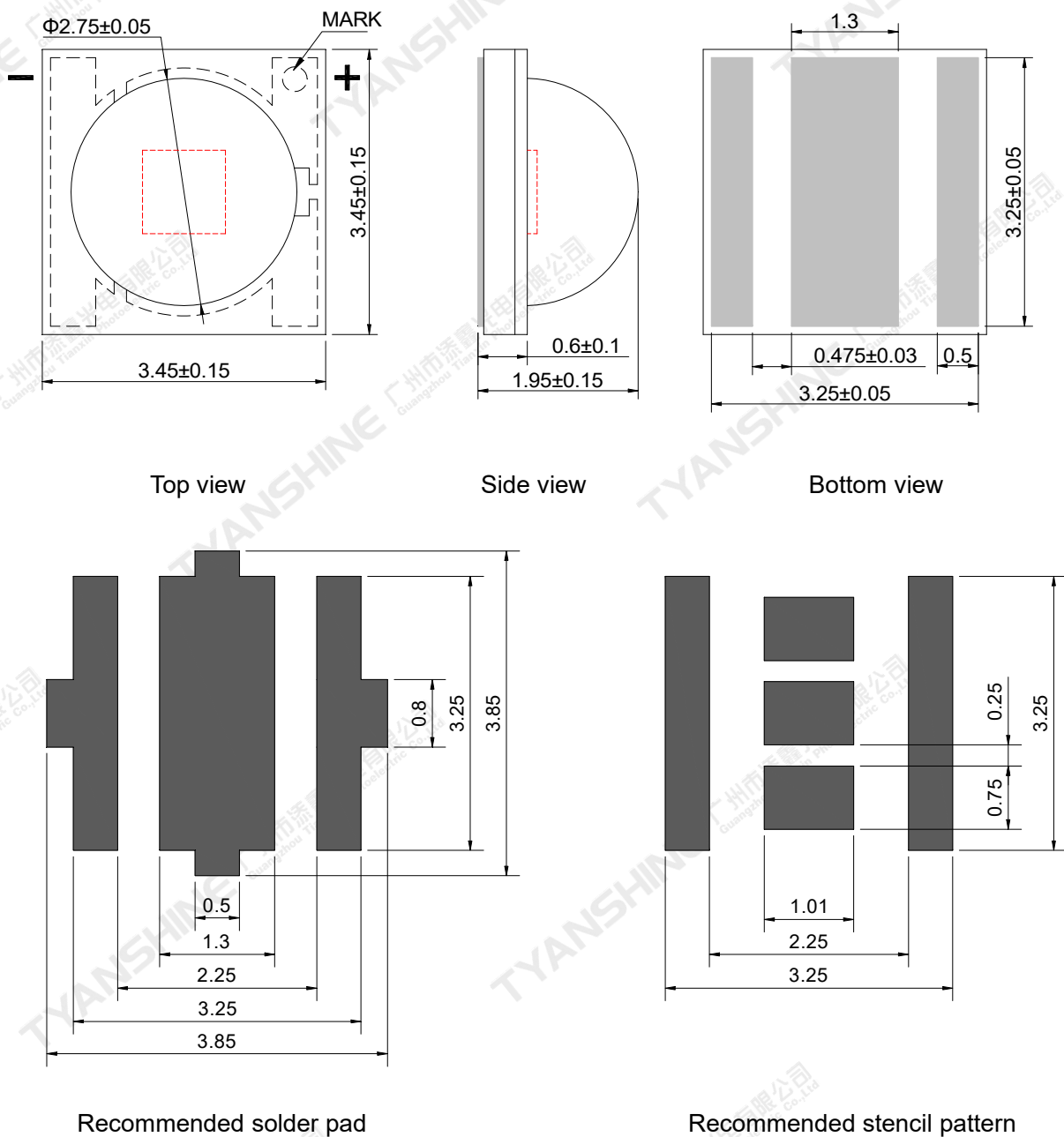
- ◆ Red

Applications:

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

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Package Dimensions:



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	1200	mA
Reverse Voltage	VR	5	V
Reverse Current	IR	2	μA
Power Dissipation	PD	4200	mW
Junction Temperature	Tj	115	℃
Electrostatic Discharge Threshold (ESD)	ESD	2000	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.
- 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=700mA	120	135	—	lm
Forward Voltage	V_f		2.2	2.5	2.8	V
Peak Emission Wavelength	λ_p		627	632	637	nm
Dominant Wavelength	λ_d		617	622	627	nm
Spectral Line Half-Width	$\Delta\lambda$		12	16	20	nm
Viewing Angle at 50 % IV	$2\theta_{1/2}$	—	—	120	—	Deg
Reverse Current	I_R		—	—	2	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$		—	6.0	—	K/W
Temperature Coefficient of Voltage	$V\Delta F/T$	If=700mA	—	-1.3	—	mV/°C

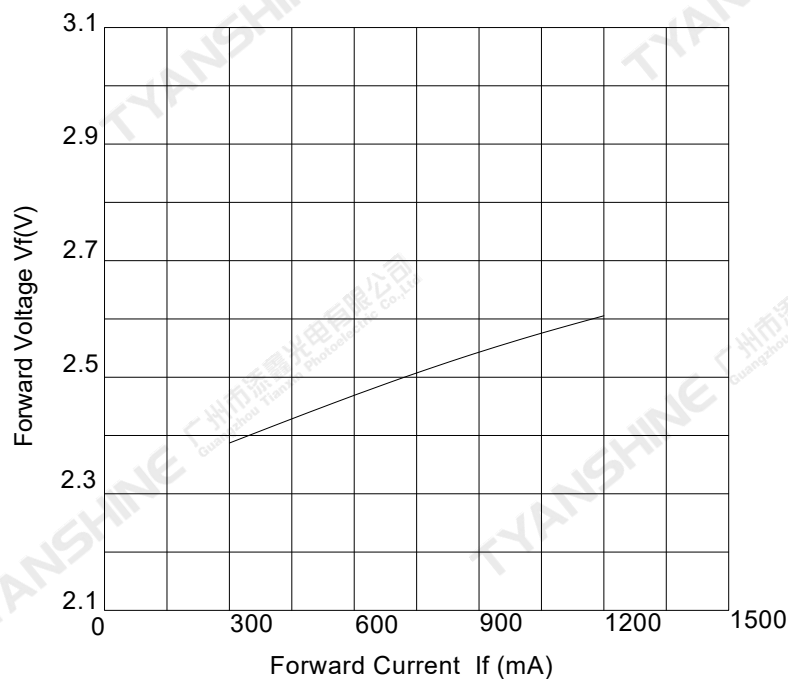
Notes:

- 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: $\pm 15\%$.
- 4.Forward voltage measurement tolerance: $\pm 0.15V$.

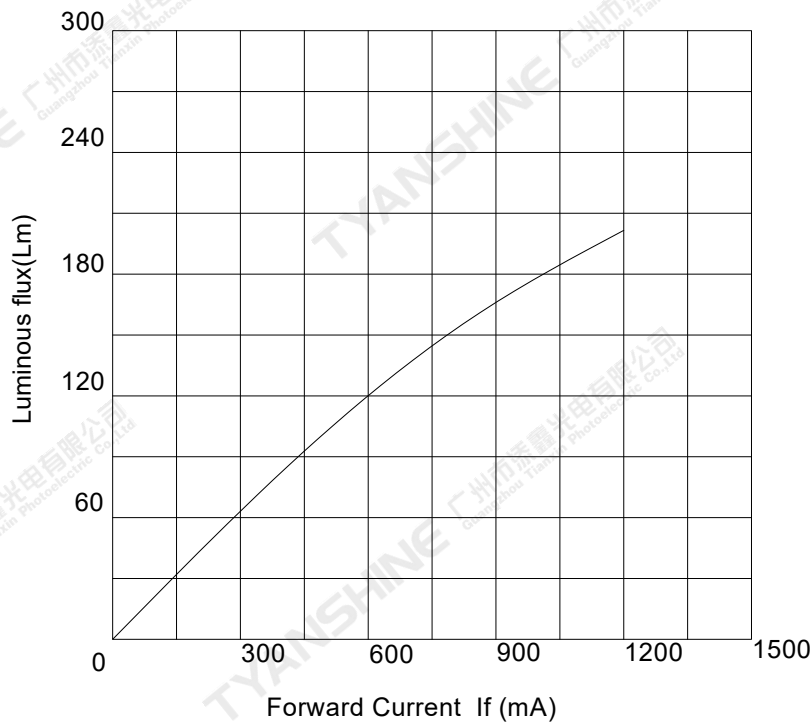
Typical Electrical/Optical Characteristics Curves

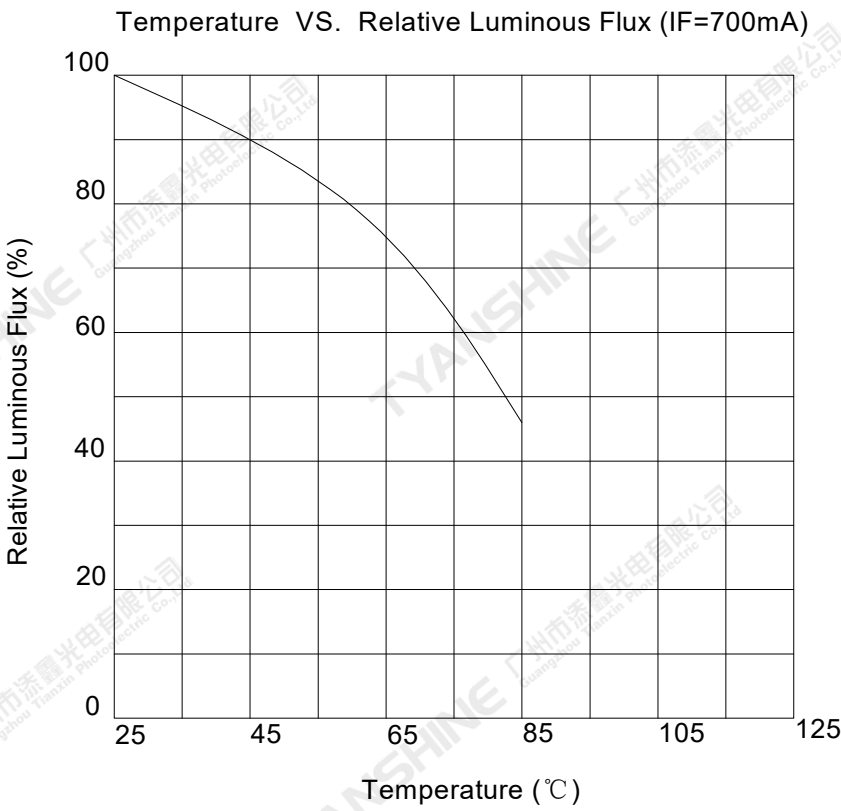
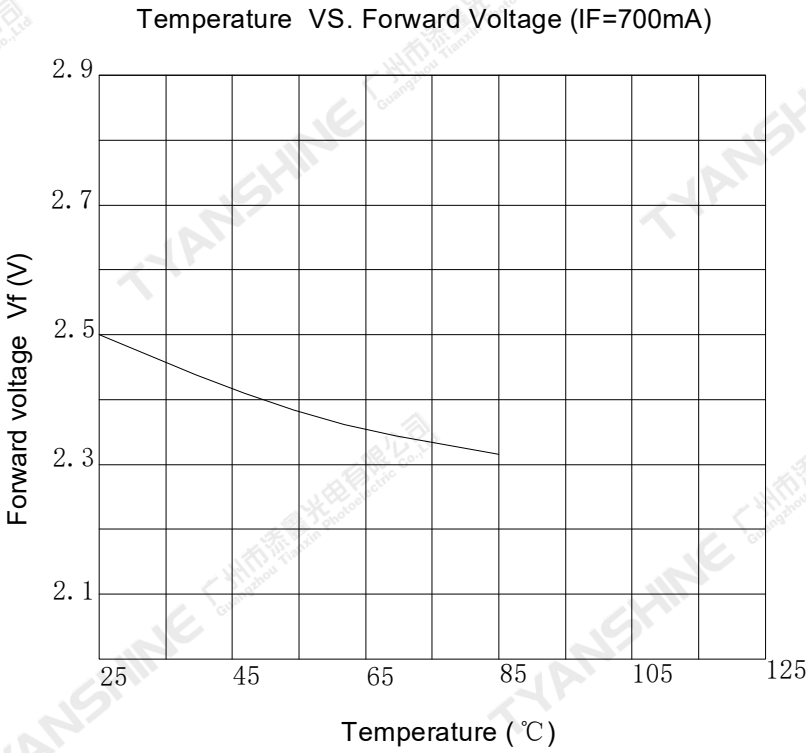
(25°C Ambient Temperature Unless Otherwise Noted)

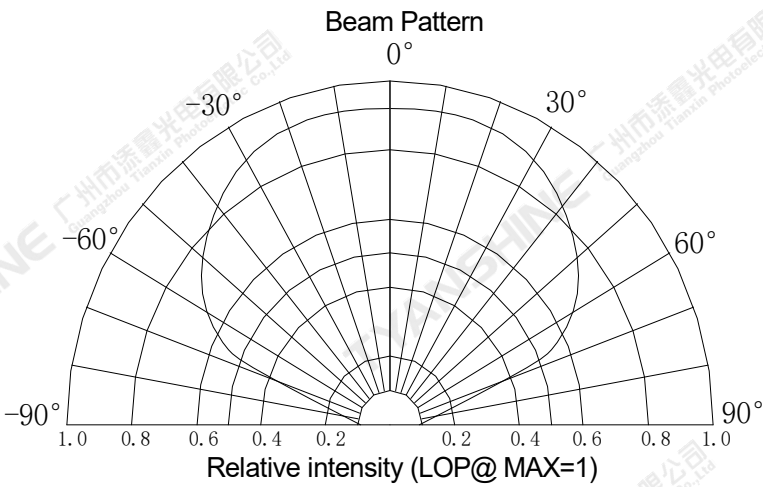
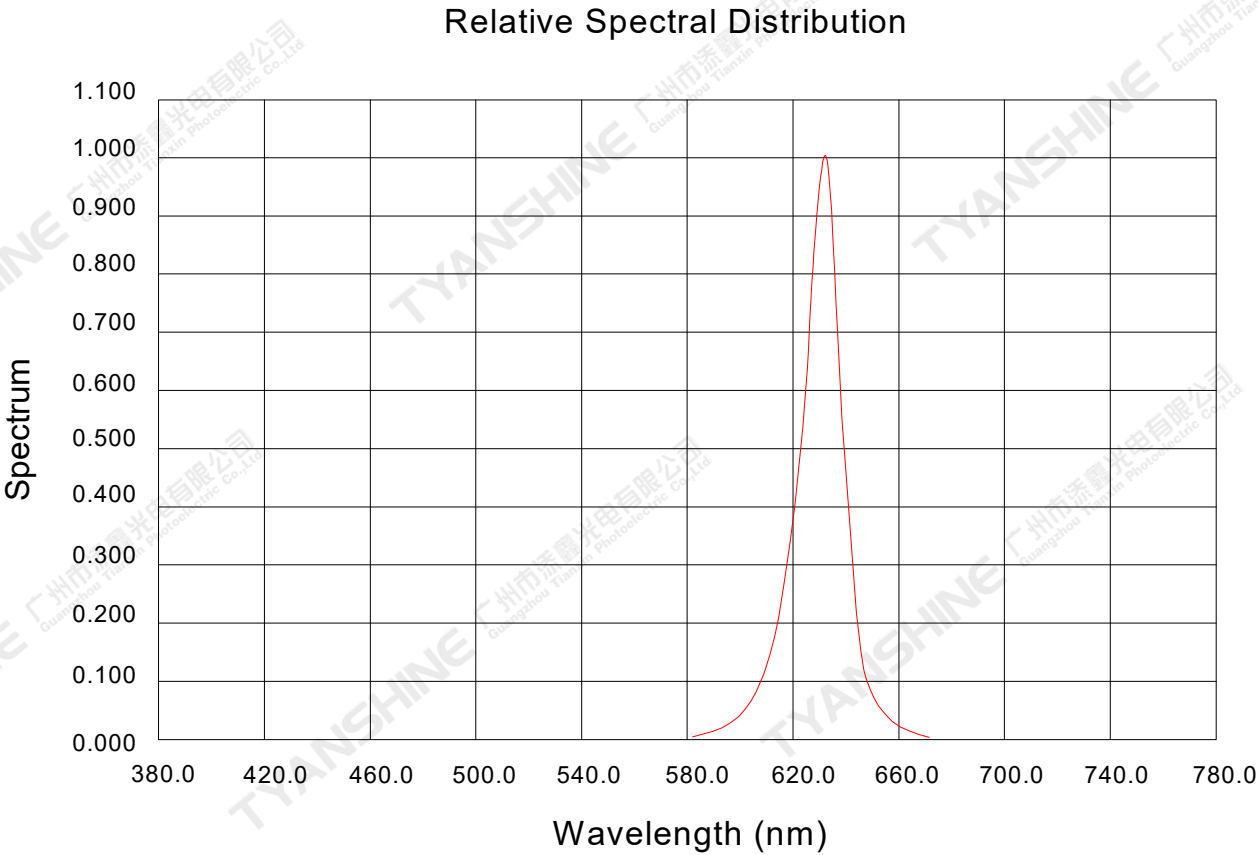
Forward Current VS. Forward Voltage



Forward Current VS.Luminous flux







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

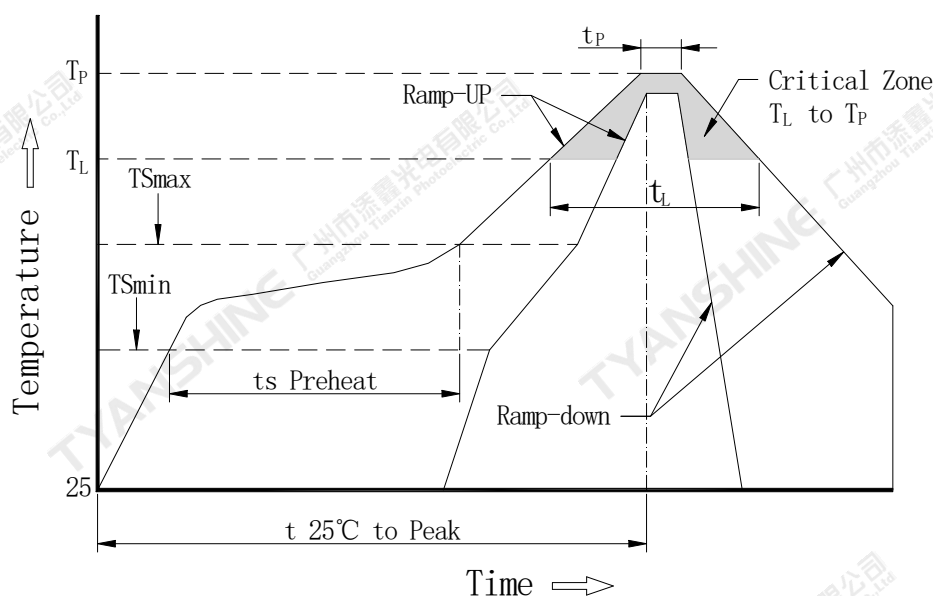
Storage Environment Condition

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	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)	10-35 seconds
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.

Quantity:1000 PCS



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.

Version:1.1