

TX-3535WA2FC120-OGVCND34-03CH80

PRODUCT SPECIFICATION

Features:

- ◆ Excellent transiting heat from LED chip operating under 350mA.
- ◆ High luminous output.
- ◆ No UV.
- ◆ Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆ GaN
- ◆ GaN

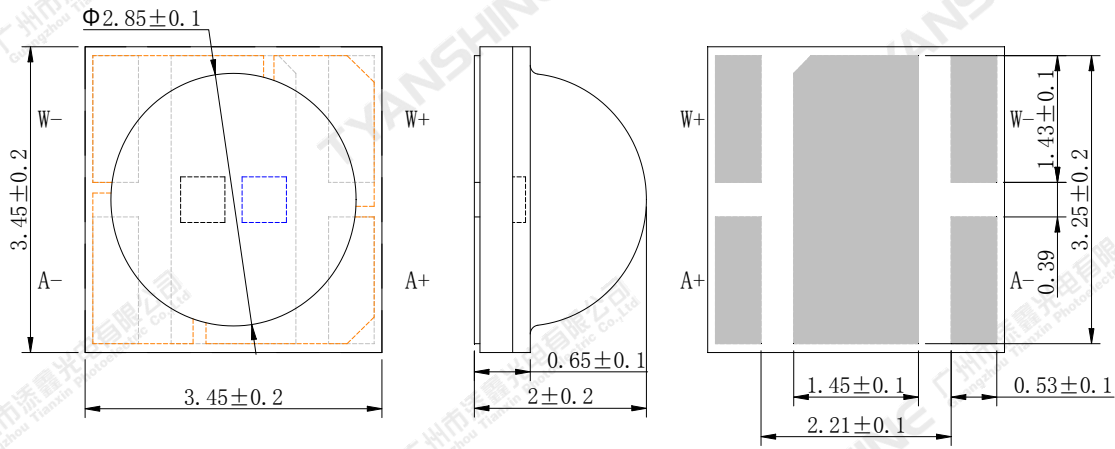
Emitting Color:

- ◆ white
- ◆ PC Amber

Applications:

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

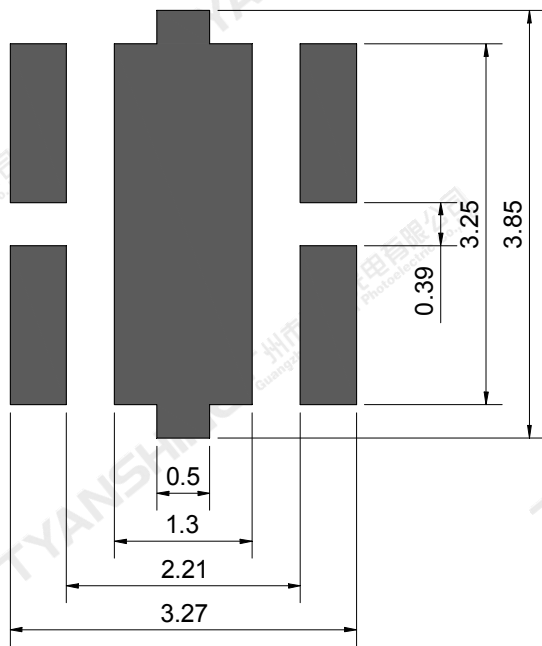
Package Dimensions:



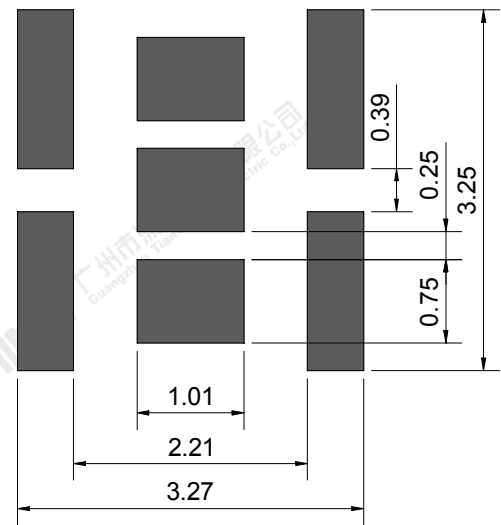
Top view

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°C)

Parameter	Symbol	Ratings	Unit
Forward Current	IF	350	mA
Reverse Voltage	VR	Not designed for reverse operation	V
Power Dissipation	PD	W	mW
		A	
Junction Temperature	Tj	150	°C
Electrostatic Discharge Threshold (ESD)	ESD	ESD sensitive device	V
Storage Temperature	Tstg	-40~+70	°C
Operation Temperature	Topr	-30~+100	

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)

Parameter	Symbol	Condition	Emitting Color	Min.	Typ.	Max.	Units
Luminous Flux	ϕ_v	If=300mA	W	65	75	85	lm
			A	27	35	45	
Correlated Colour Temperature	CCT		W	4750	5400	6500	K
			A	1740	1850	2050	
Color Rendering Index	Ra		W	80	82.5	85	—
Peak Emission Wavelength	λ_p		A	590	593	596	nm
Dominant Wavelength	λ_d		A	585	588	591	nm
Forward Voltage	V_f		W	3.0	3.3	3.5	V
			A	3.0	3.3	3.5	
Viewing Angle at 50% IV	$2\theta_{1/2}$		—	—	120	—	Deg
Reverse Current	I_R	—	—	—	—	2.0	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	—	—	14.6	—	K/W
Temperature Coefficient of Voltage	$V\Delta F/T$	—	—	—	-2	—	mV/°C

White light Color coordinate filing (IF=300mA)

Region	CCT Range		X1	Y1	X2	Y2	X3	Y3	X4	Y4
	Min	Max								
W8	1755K	1825K	0.5631	0.4067	0.5577	0.4134	0.5689	0.4175	0.5749	0.4110
W7	1800K	1870K	0.5577	0.4134	0.5533	0.4188	0.5637	0.4220	0.5689	0.4175
W4	1840K	1950K	0.5533	0.4188	0.5481	0.4257	0.5570	0.4283	0.5637	0.4220
W1	1965K	2030K	0.5481	0.4257	0.5412	0.4349	0.5472	0.4373	0.5570	0.4283
3A	5000K	5300K	0.3445	0.3487	0.3368	0.3420	0.3374	0.3560	0.3457	0.3635
3B			0.3457	0.3635	0.3374	0.3560	0.3376	0.3631	0.3463	0.3705
2D	5300K	5700K	0.3368	0.3415	0.3290	0.3347	0.3290	0.3480	0.3373	0.3555
2C			0.3373	0.3555	0.3290	0.3480	0.3289	0.3548	0.3376	0.3626
2A	5700K	6000K	0.3290	0.3337	0.3220	0.3275	0.3211	0.3400	0.3290	0.3471
2B			0.3290	0.3471	0.3211	0.3400	0.3206	0.3462	0.3289	0.3537

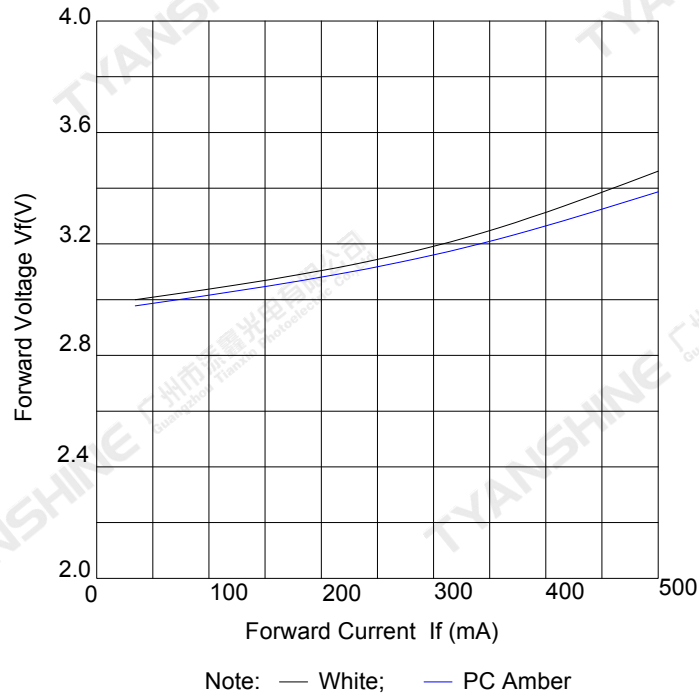
Notes:

- 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: $\pm 0.15V$.

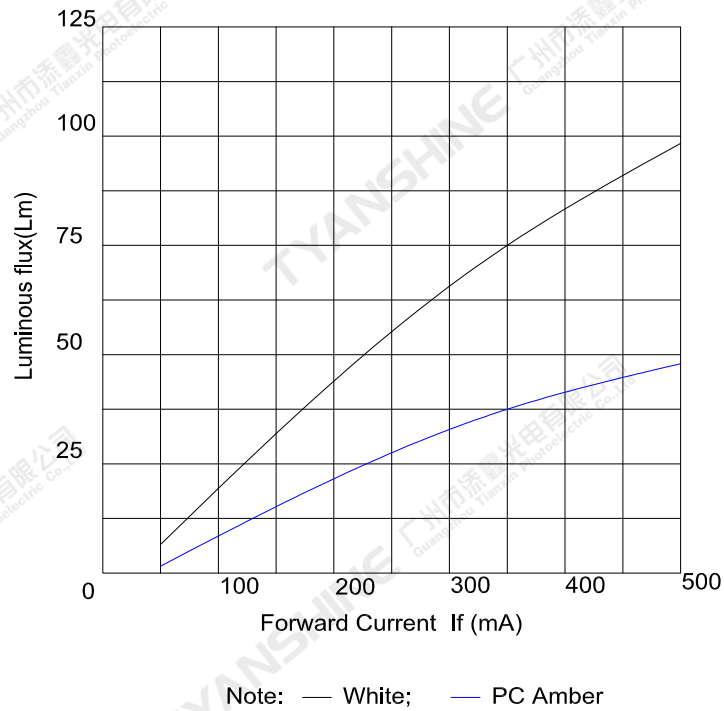
Typical Electrical/Optical Characteristics Curves

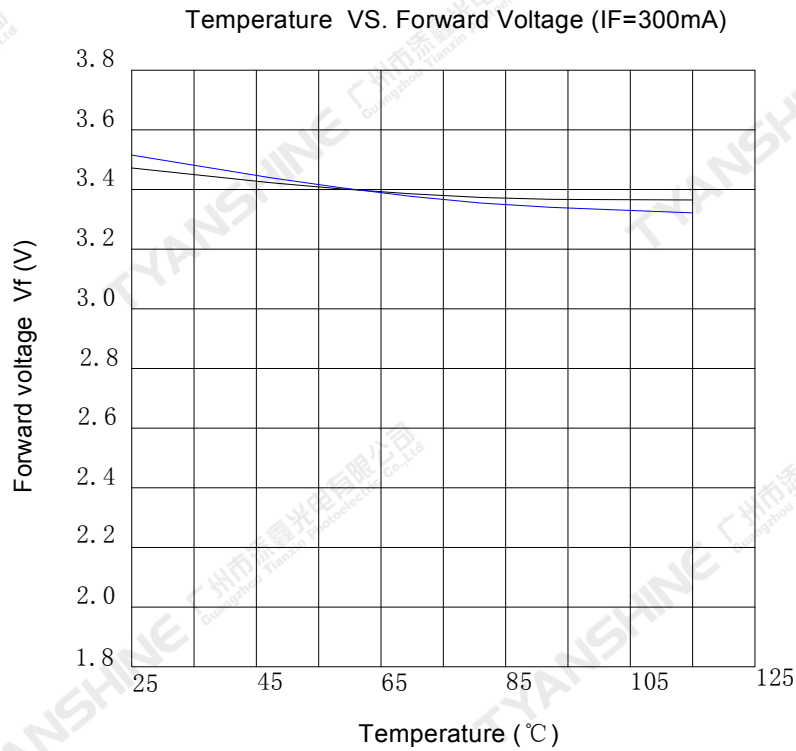
(25°C Ambient Temperature Unless Otherwise Noted)

Forward Current VS. Forward Voltage

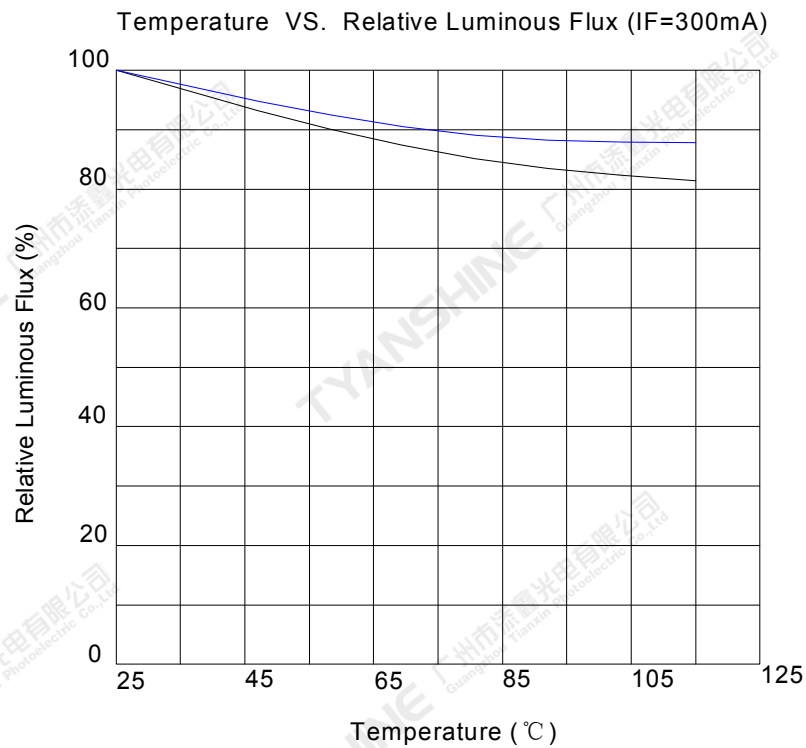


Forward Current VS.Luminous flux

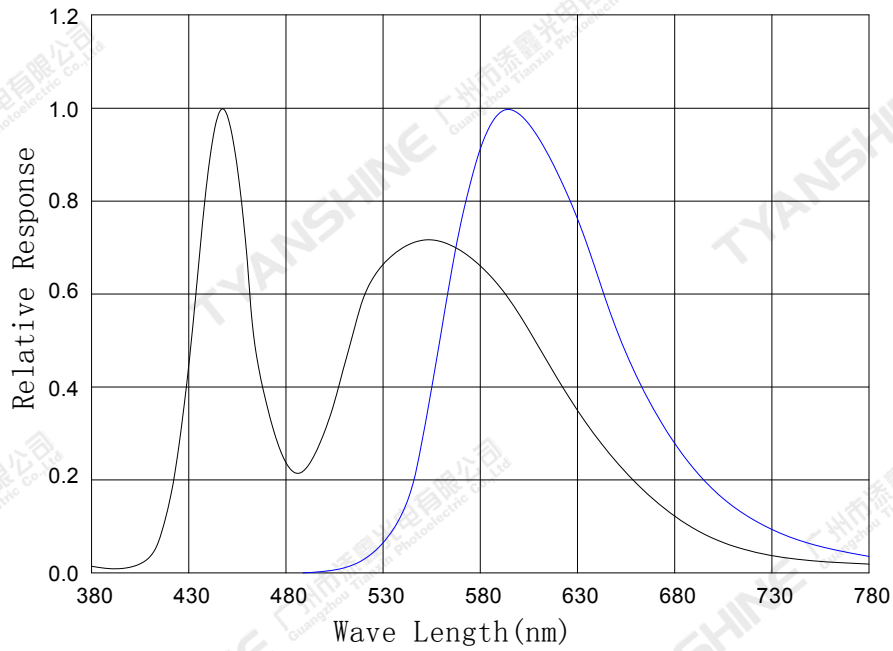




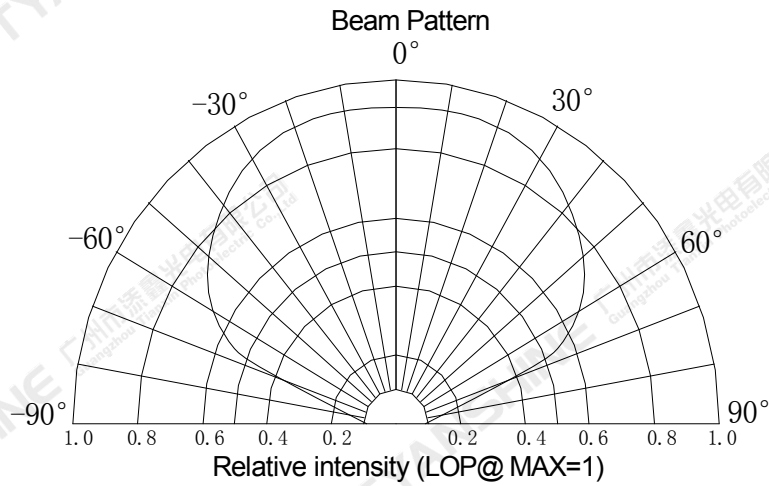
Note: — White; — PC Amber



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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

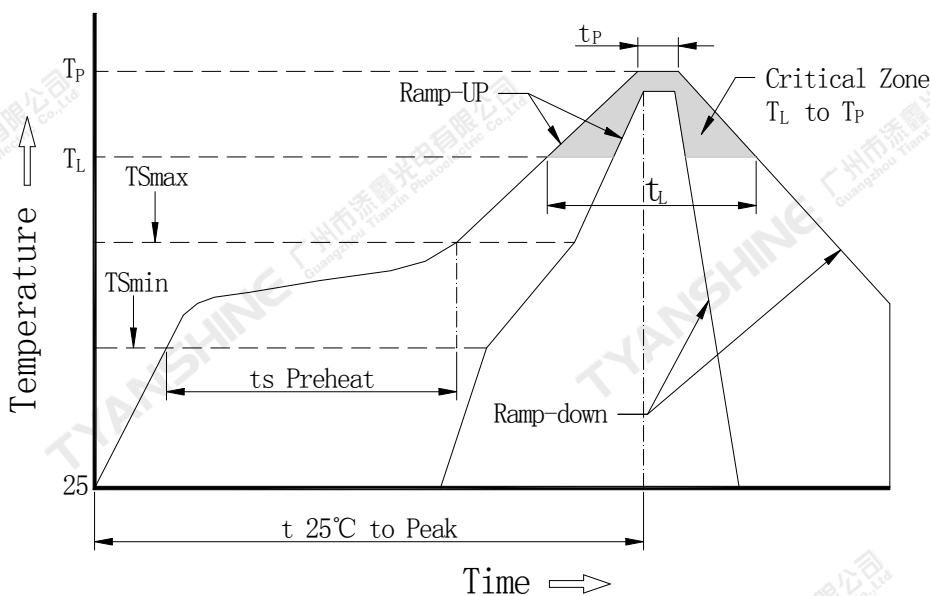
Storage Environment Condition

Temperature: 5°C ~ 30°C (41°F ~ 86°F)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown to the under figure.



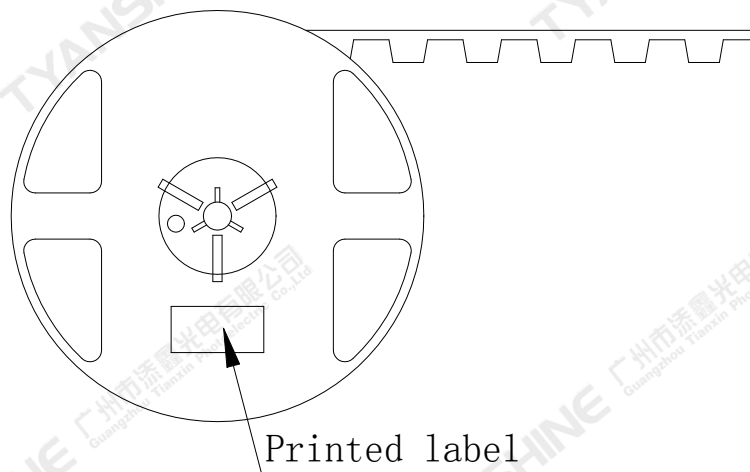
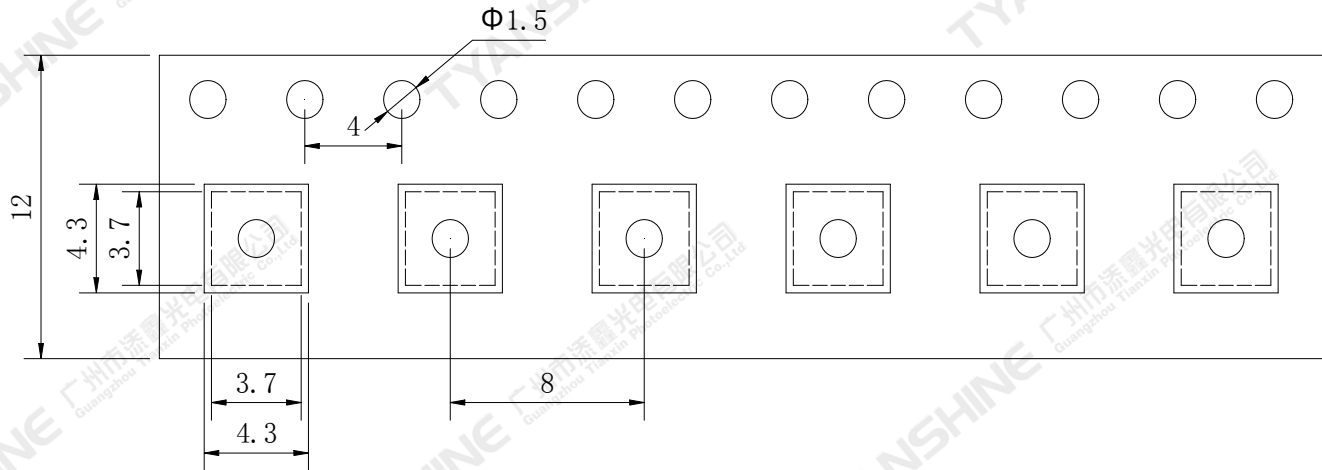
Profile Feature	Lead-Based Solder
Average Ramp-Up Rate (TSmax to TP)	3°C/second max.
Preheat: Temperature Min (TSmin)	100°C
Preheat: Temperature Max (TSmax)	150°C
Preheat: Time (TSmin to TSmax)	60-120 seconds
Time Maintained Above: Temperature (TL)	183°C
Time Maintained Above: Time (TL)	60-150 seconds
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.

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