

# TX-1307SW08A-2860V36-10H90

## PRODUCT SPECIFICATION

**Features:**

- ↵ Excellent transiting heat from LED chip operating under 250mA.
- ↵ Provide uniform cross distribution of positive white and warm white dual color scheme, mixed pure.
- ↵ High luminous output.
- ↵ No UV.
- ↵ Encapsulated materials are environmentally certified and meet environmental requirements.

**Chip Material:**

- ↵ GaInN

**Emitting Color:**

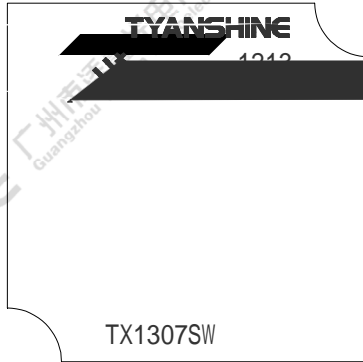
- ↵ White
- ↵ Warm white

**Applications:**

- ↵ Commercial lighting
- ↵ General Lighting

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**Package Dimensions:**



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## Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Forward Current	IF	250	mA
Reverse Voltage	V <sub>R</sub>	Not designed for reverse operation	V
Power Dissipation	P <sub>D</sub>	S	9
		W	9
		S+W	9
Junction Temperature	T <sub>j</sub>	S	135
		W	135
Case Temperature (C)	T <sub>c</sub>	85	"
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	T <sub>stg</sub>	-30~+100	"
Operation Temperature	T <sub>opr</sub>	-30~+80	

**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	$\Phi_v$	If=200mA	S	—	600	—	lm
			W	—	750	—	
Forward Voltage	$V_f$		S	34	36	38	V
			W	34	36	38	
Correlated Colour Temperature	CCT		S	—	2800	—	K
			W	—	6000	—	
Viewing Angle at 50°IV	$2\theta_{1/2}$		S	—	115	—	Deg
			W	—	115	—	
Reverse Current	$I_r$		—	—	—	—	$\mu A$
Thermal Resistance Junction to Case	$R\theta_{J-C}$		S	—	4.8	—	K/W
		W	—	4.8	—		
Temperature Coefficient of Voltage	$V\Delta F/T$	S	—	-17	—	mV/ "	
		W	—	-17	—		
Color Rendering Index	Ra	S	—	90	—	—	
		W	—	90	—		

**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:±3%.
- 5.Ra measurement tolerance: ± 2.

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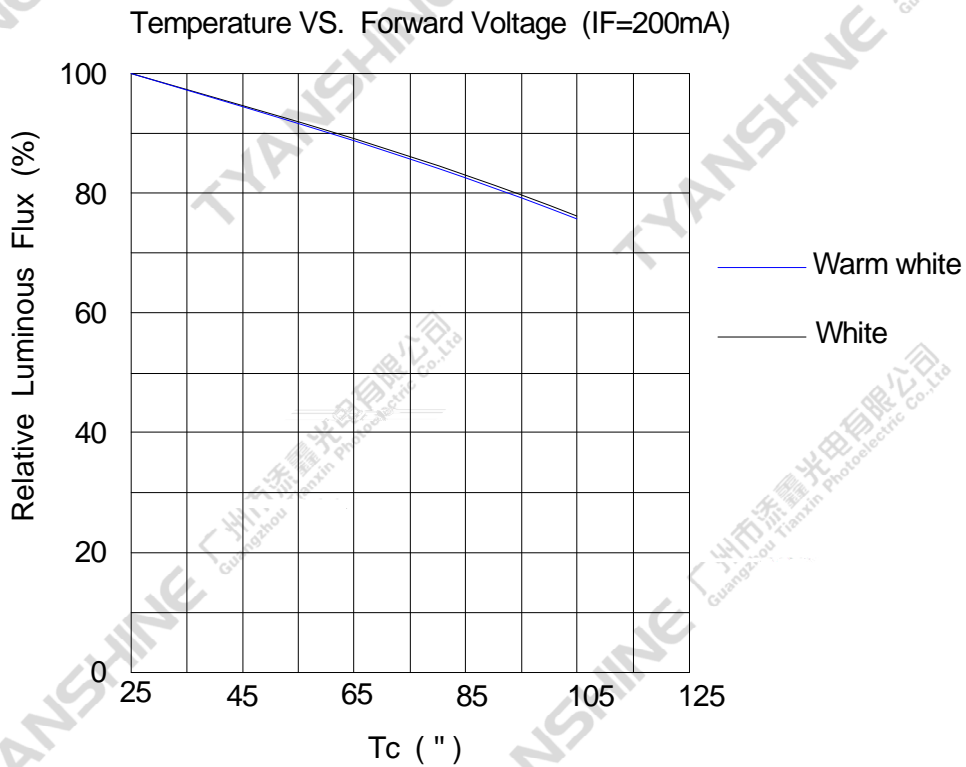
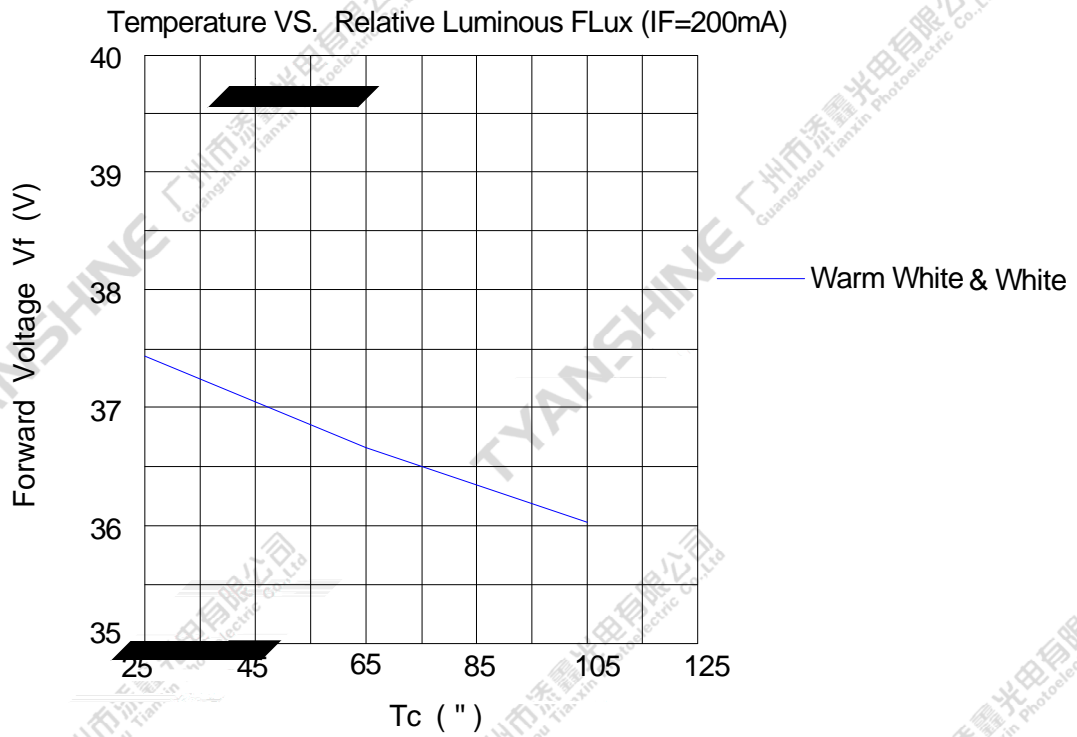
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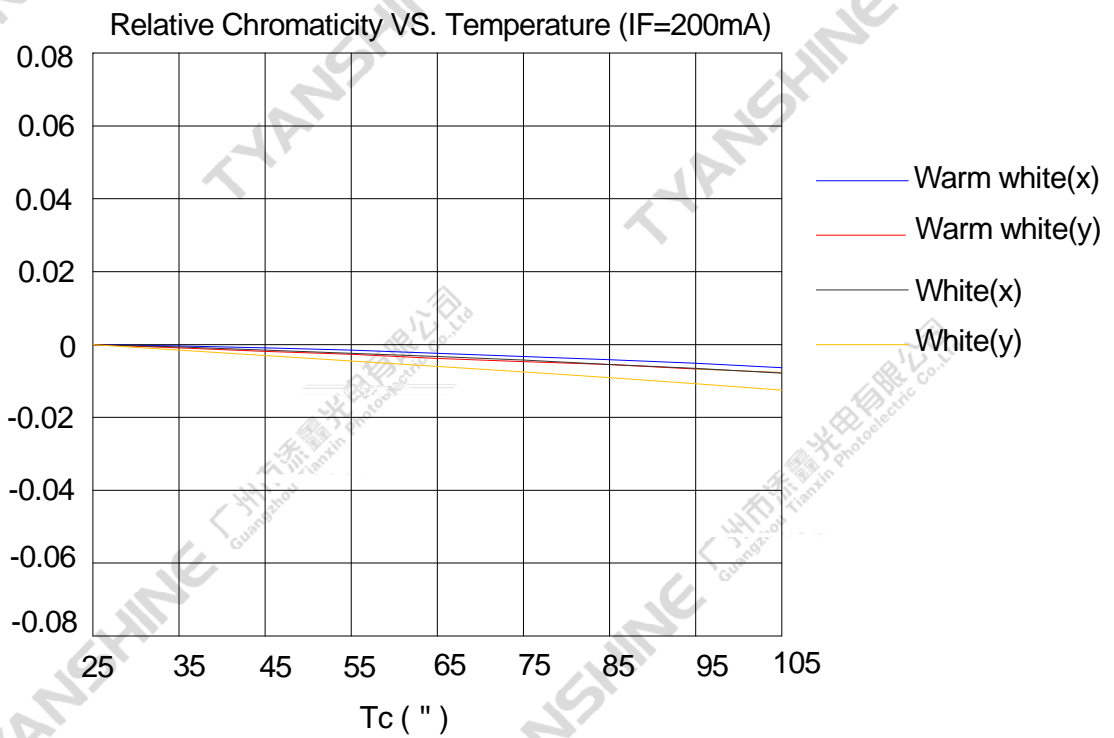
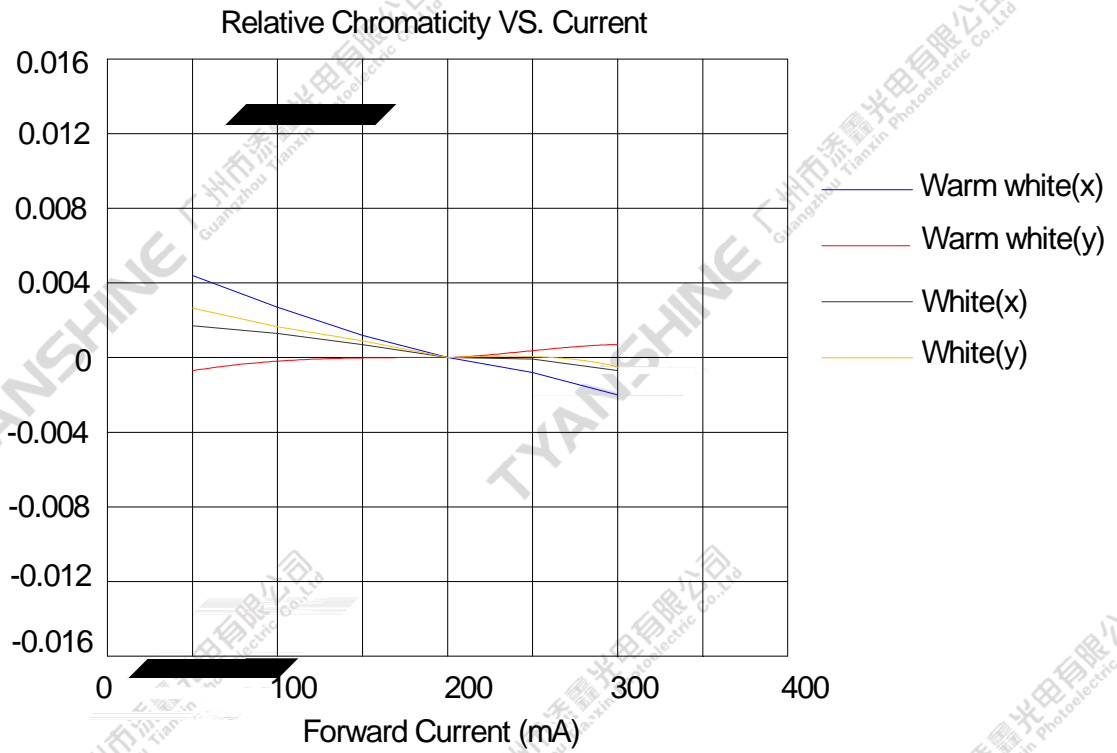
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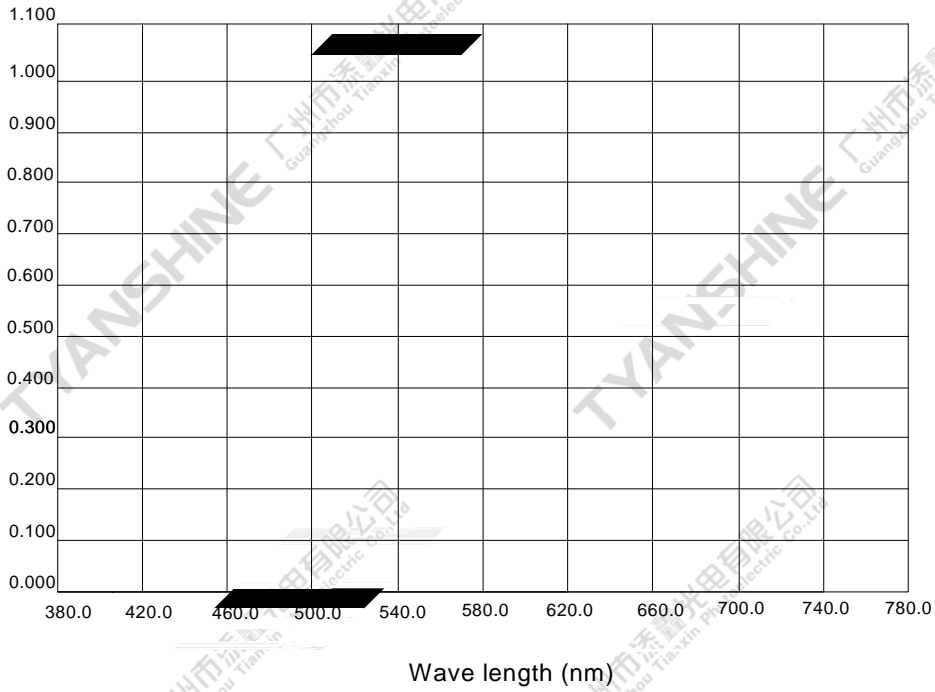
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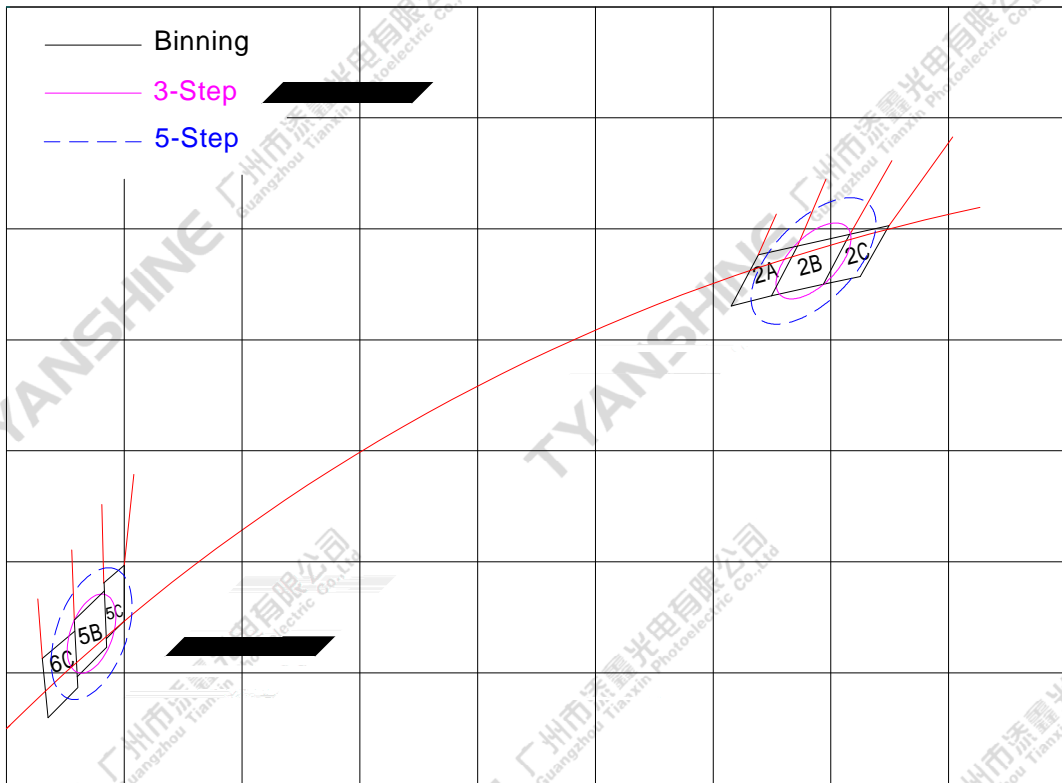


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**Chromaticity Coordinates Condition IF=200mA Tc=25 "**



**Notes:**

1.chromaticity (x, y) measurements tolerance:  $\pm 0.005$ .

**Reliability Test**

Test Item	Test Condition
Continuous Operation Test	IF=200mA Ta=25 " x1000hrs
Low Temperature Storage Test	-30 " x 1000 hours
High Temperature Storage Test	100 " x 1000 hours
Moisture-proof Test	85 " , 85 %RH for 500 hours
Thermal Shock Test	-30 " x 30 minutes – 100 " x 30 minutes, 100 cycle

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