

TX-1826W60FC120-NUVEZG-A01

PRODUCT SPECIFICATION (R&D version)

Features:

- ◆ Excellent transiting heat from LED chip operating under 4.0A.
- ◆ High luminous output.
- ◆ No UV.
- ◆ Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆ ThinGaN

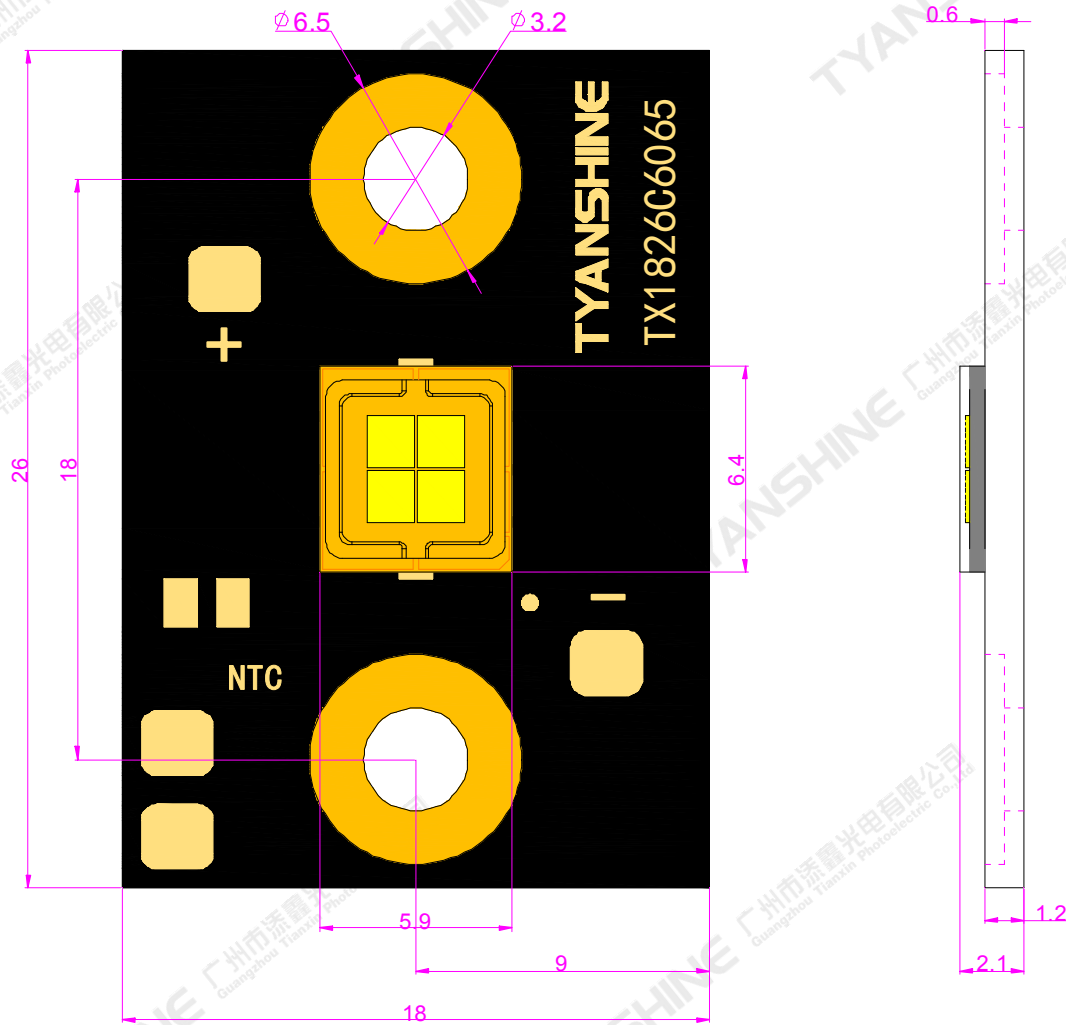
Emitting Color:

- ◆ White

Applications:

- ◆ Auxiliary lighting
- ◆ Ambient lighting
- ◆ Architectural lighting

Package Dimensions:



Notes:

- 1.All dimensions are in millimeters .
- 2.Tolerances unless otherwise mentioned are ± 0.1 mm .

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Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbol	Ratings	Unit
Forward Current	IF	4000	mA
Reverse Voltage	VR	Not designed for reverse operation	V
Power Dissipation	PD	56	W
Junction Temperature	Tj	150	°C
Electrostatic Discharge Threshold (ESD)	ESD	2000	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=4.0A	W	3800	4100	4400	lm
Forward Voltage	V_f		W	11	12.5	14	V
Viewing Angle at 50% IV	$2\theta_{1/2}$		W	—	120	—	Deg
Correlated Colour Temperature	CCT	If=1.0A	W	6500	6900	7150	K
		If=4.0A	W	7000	7250	7750	
Reverse Current	I_R	—	W	—	—	—	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	W	—	0.35	—	K/W
Temperature Coefficient of Voltage	$V\Delta F/T$	If=4.0A	W	—	-2.1	—	mV/°C

White light Color coordinate filing (IF=1.0A)

Region	CCT Range		X1	Y1	X2	Y2	X3	Y3	X4	Y4
	Min	Max								
D112	6500K	6700K	0.3144	0.3236	0.3114	0.3191	0.3100	0.3256	0.3127	0.3293
CD11	6700K	7150K	0.3114	0.3191	0.3054	0.3101	0.3093	0.3173	0.3100	0.3256

Notes:

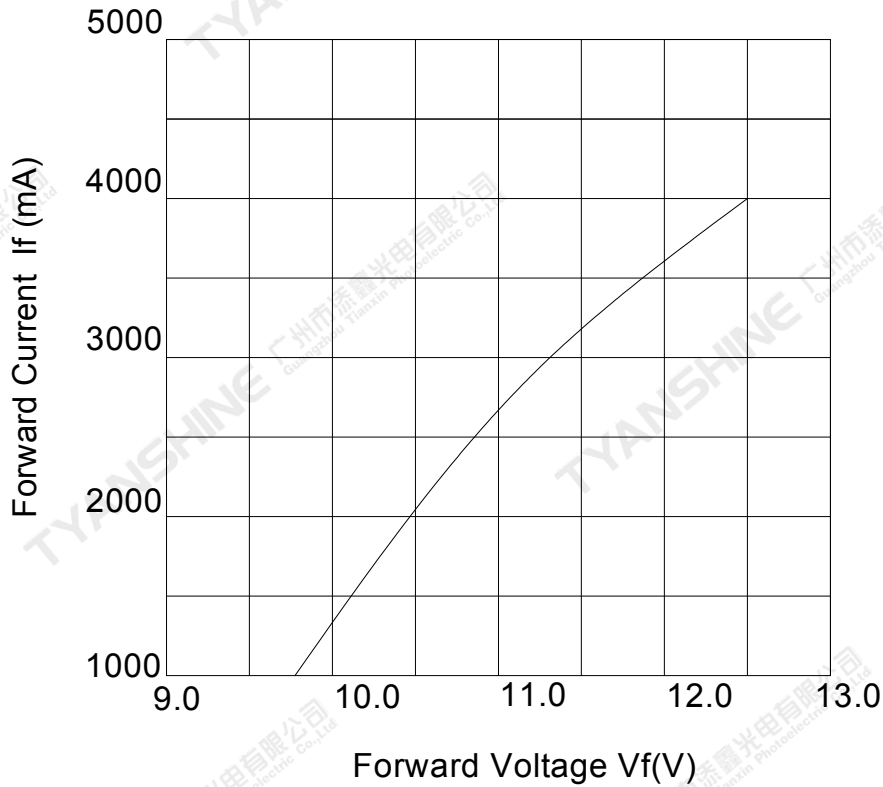
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance:±15%.
- 4.Forward voltage measurement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

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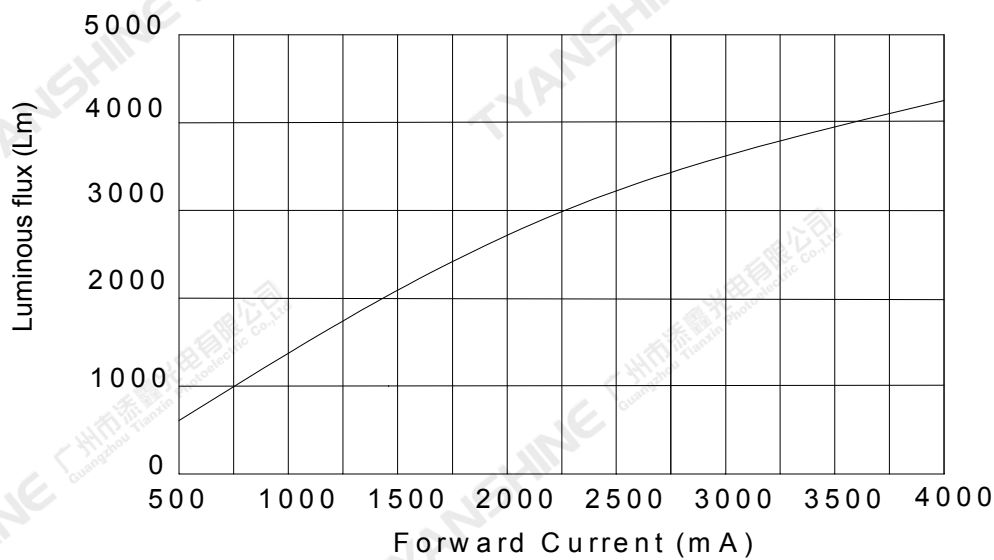
Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

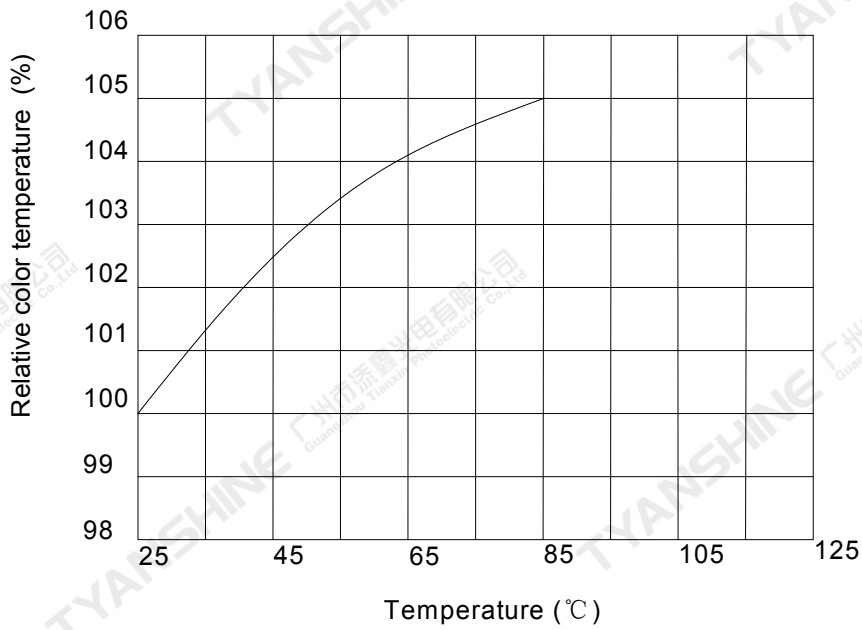
Forward Current VS. Forward Voltage



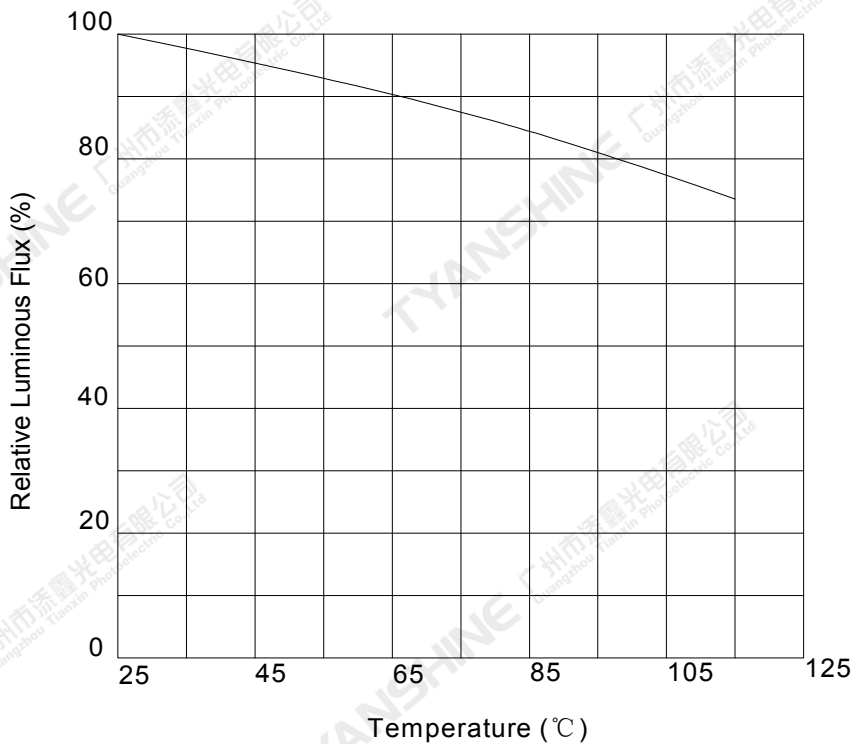
Forward Current VS. Luminous flux

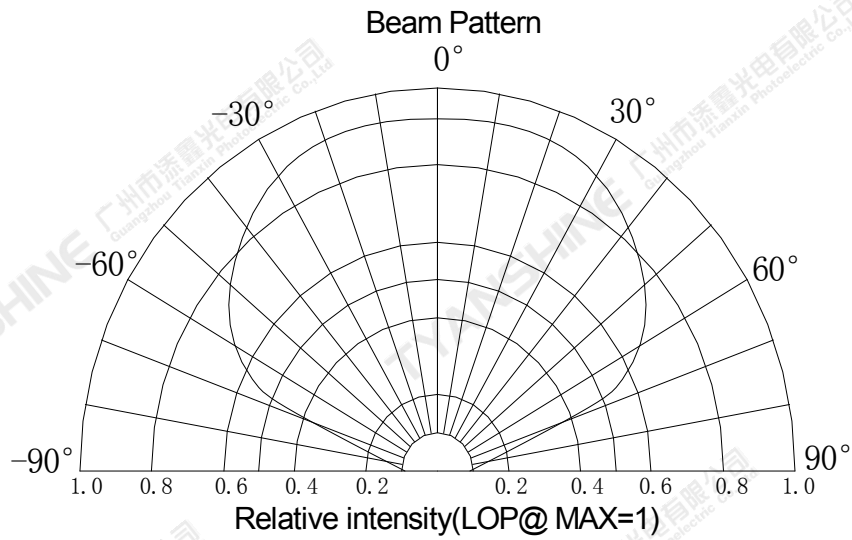
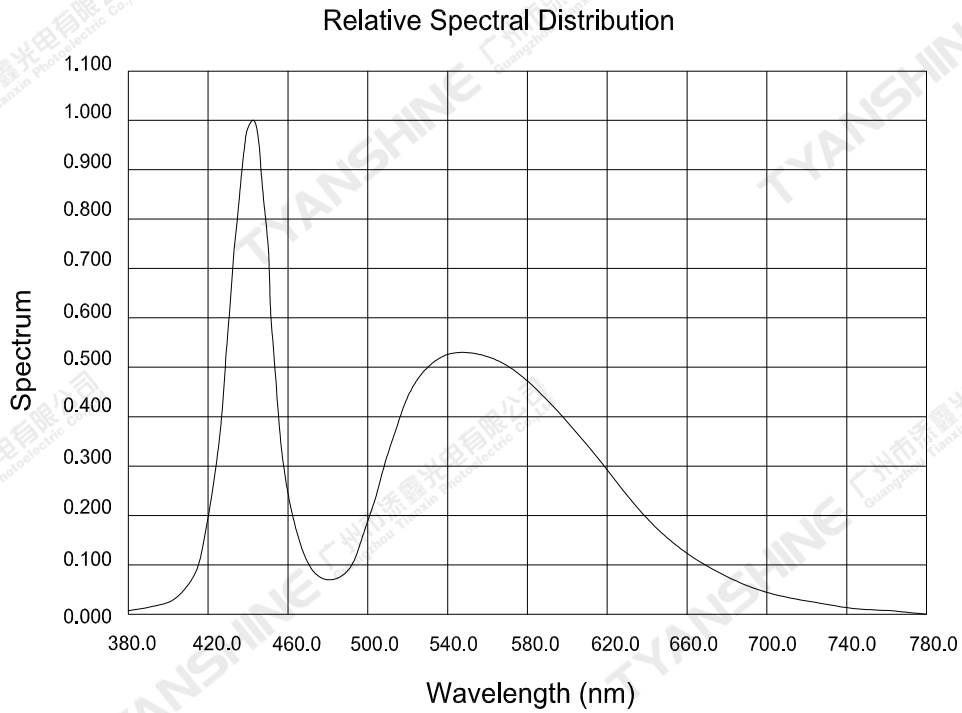


Temperature VS. Relative color temperature (IF=4000mA)



Temperature VS. Relative Luminous Flux (IF=4000mA)





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 $\pm 5^\circ$.

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