

TX-5050W20FC100-NUVCNG-B01

PRODUCT SPECIFICATION

Features:

- Excellent transiting heat from LED chip operating under 1.0A.
- High luminous output.
- No UV.
- Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

ThinGaN

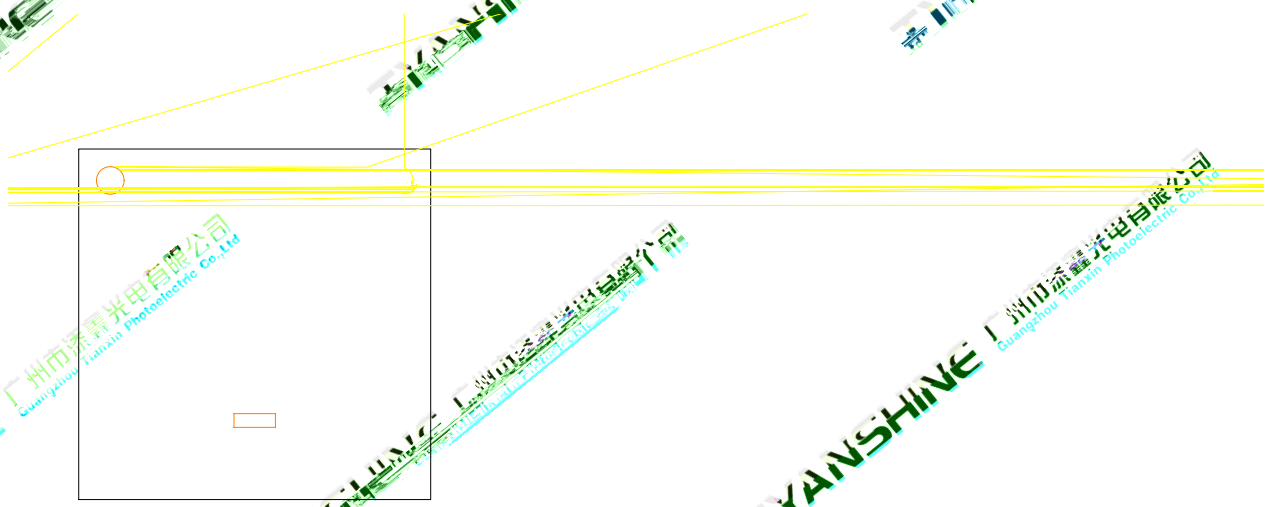
Emitting Color:

White W

Applications:

- Auxiliary lighting
- Ambient lighting
- Architectural lighting

Package Dimensions:



Absolute Maximum Ratings (Tc=25)

Parameter	Symbol	Ratings	Unit
Forward Current	IF	3.5	A
Reverse Voltage	VR	Not designed for reverse operation	V
Power Dissipation	PD	24	mW
Junction Temperature	Tj	150	
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature(Only for LED, not including packaging)	Tstg	-40~+85	
Operation Temperature	Topr	-40~+85	

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.

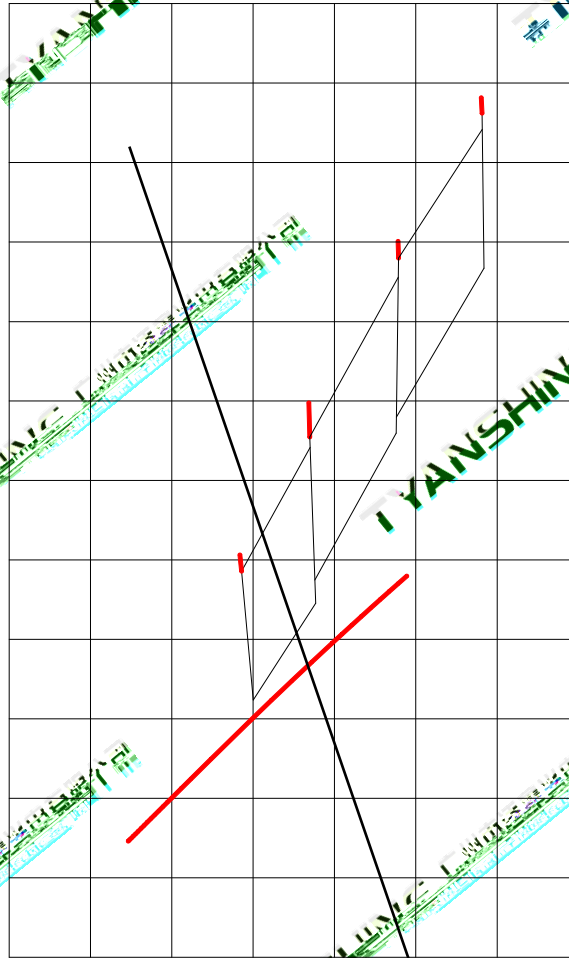
Electrical Optical Characteristics (Tc=25°C)

Parameter	Symbol	Condition	Emitting color	Min.	Typ.	Max.	Units
Luminous Flux	v	If=1.0A	W	390	440	490	lm
		If=5.5A	W	1240	1400	1560	
Forward Voltage	V _f	If=1.0A	W	2.8	—	3.6	V
		If=5.5A	W	3.8	—	4.5	
Viewing Angle at 50° IV	2 1/2	—	W	—	100	—	Deg
Correlated Colour Temperature	CCT	If=1.0A	W	5000	—	6100	K
		If=5.5A	W	5400	—	6600	
Reverse Current	I _R	—	W	—	—	—	μA
Temperature Coefficient of Voltage	V F/T	If=1.0A	W	—	-6.65	—	mV/
		If=5.5A	W	—	-6.23	—	

Notes:

- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. 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.

White light Color coordinate filing (IF=1.0A, Tc=25°C)

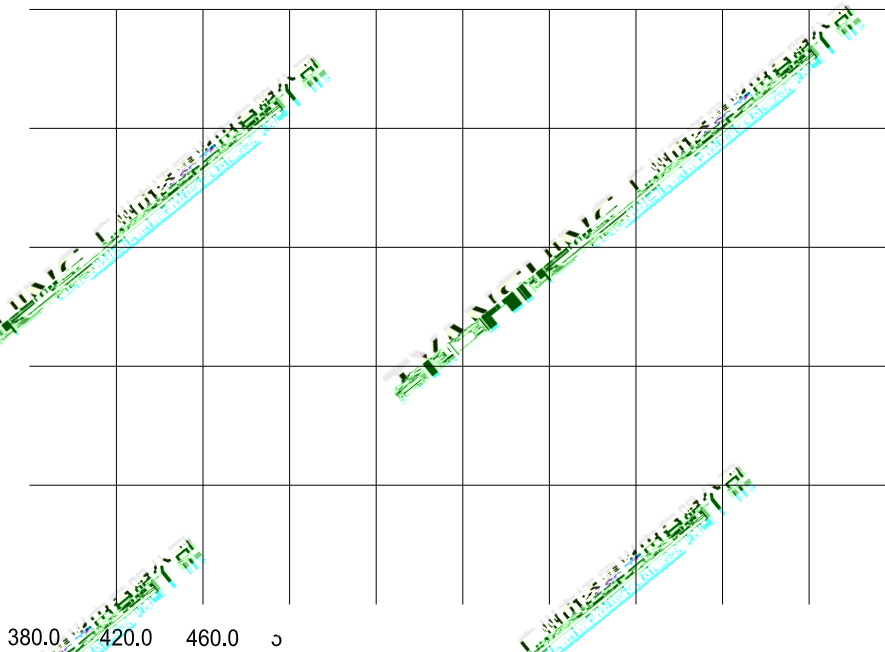
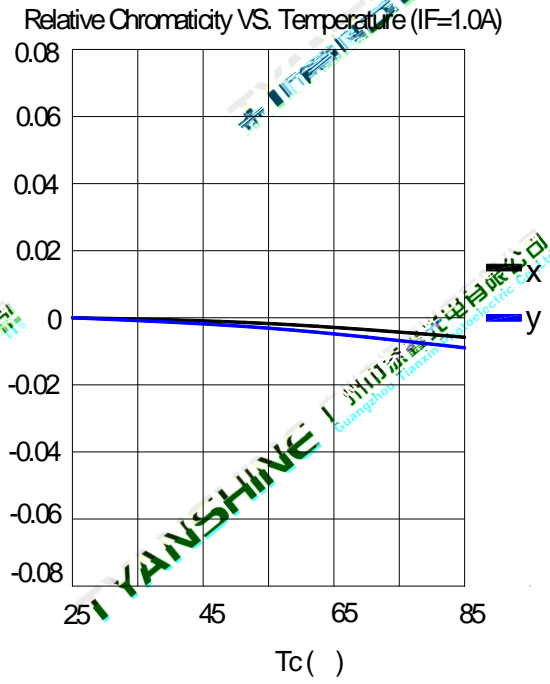
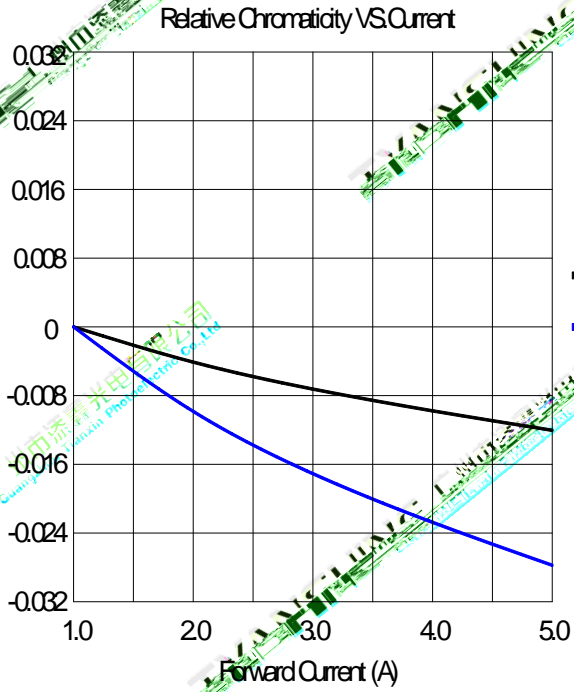


Region	CCT Range		X1	Y1	X2	Y2	X3	Y3	X4	Y4
	Min	Max								
H	5000K	5300K	0.3484	0.3867	0.3482	0.4042	0.3379	0.3880	0.3376	0.3680
G	5300K	5700K	0.3376	0.3659	0.3379	0.3856	0.3270	0.3655	0.3276	0.3475
F	5700K	6100K	0.3277	0.3445	0.3270	0.3642	0.3186	0.3486	0.3200	0.3324

Typical Electrical/Optical Characteristics Curves

(25 Ambient Temperature Unless O

Part No.	TX-5050W20FC100-NUVCNG-B01	Spec No.	WKF-FC0081	Page	6 of 10
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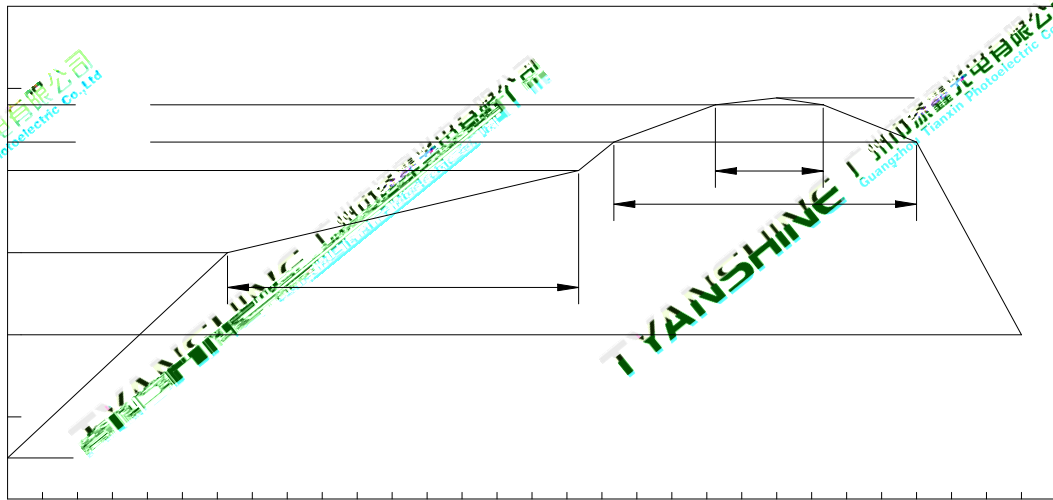
Usage Precautions

Storage Environment Condition

Temperature: 5 ~ 30 (41 ~ 86)

Humidity: 60% RH Max.

Soldering Condition



Profil-Charakteristik Profile Feature	Symbol	Pb-Free(SnAgCu)Assembly			Einheit Unit
		Minimum	Recommendation	Maximum	
Ramp-up Rate to Preheat 25 to 150	-	-	2	3	K/s
Time t_s T_{smin} to T_{smax}	t_s	60	100	120	s
Ramp-up Rate to Peak T_{smax} to T_p	-	-	2	3	K/s
Liquidus Temperature	T_L	217			
Time above Liquidus temperature	t_L	-	80	100	s
Peak Temperature	T_p	-	245	255	
Time within 5 of the specified peak temperature $T_p \pm 5$ K	t_p	10	20	30	s
Ramp-down Rate T_p to 100	-	-	3	6	K/s
Time 25 to T_p	-	-	-	480	-

Note:

All temperatures refer to topside of the package, measured on the package body surface.

Dimensions For Cannulation And Packaging

Quantity: 1000PCS

