



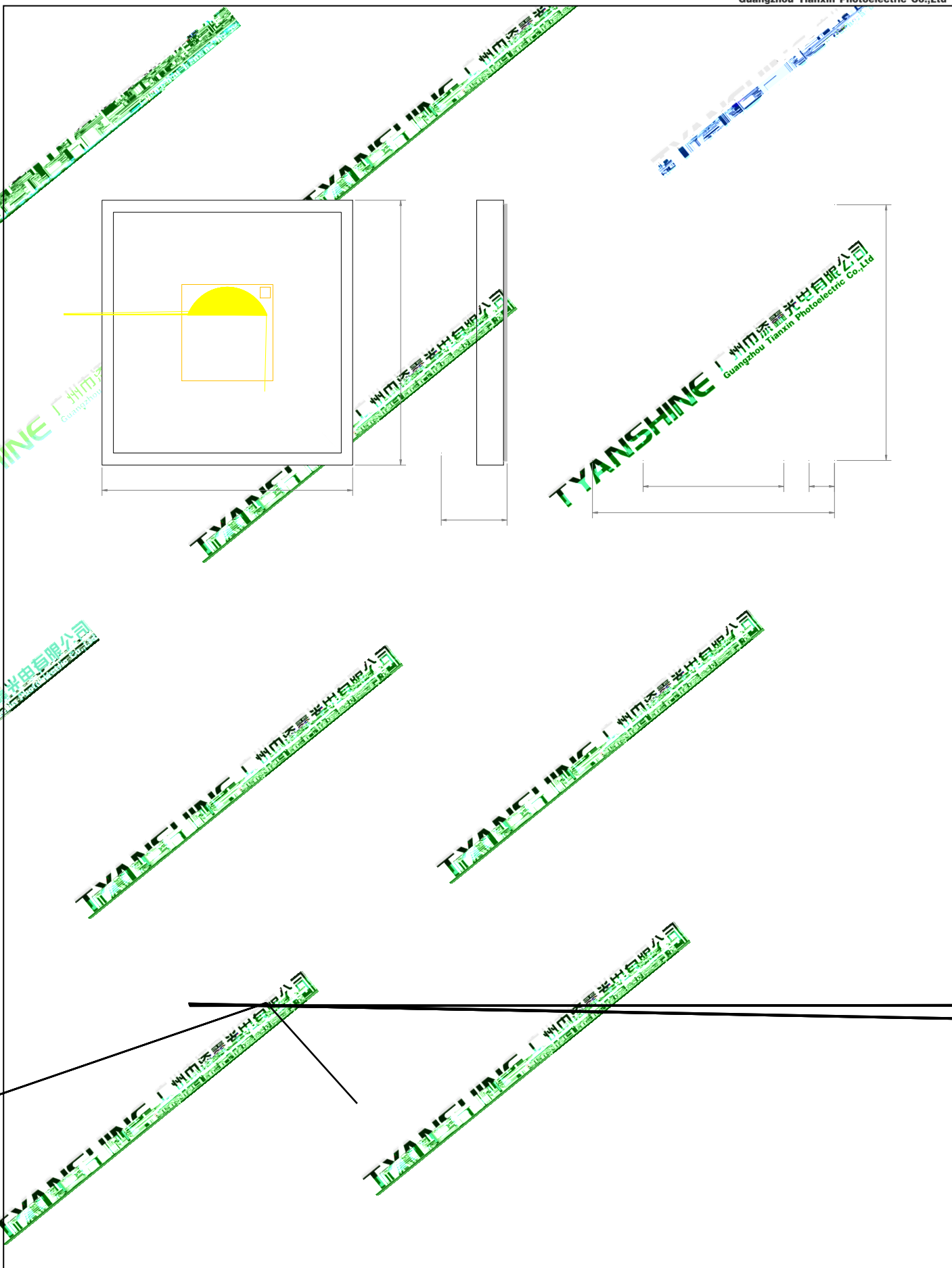
Excellent transiting heat from LED chip operating under 5.0A.  
 High luminous output.  
 No UV.  
 Encapsulated materials are environmentally certified and meet environmental requirements.

ThinGaN

White W

Auxiliary lighting  
 Ambient lighting  
 Architectural lighting

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Forward Current	IF	3.0	A
Reverse Voltage	VR	Not designed for reverse operation	V
Power Dissipation	PD	20	
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	

1.Specifications are subject to change without notice.

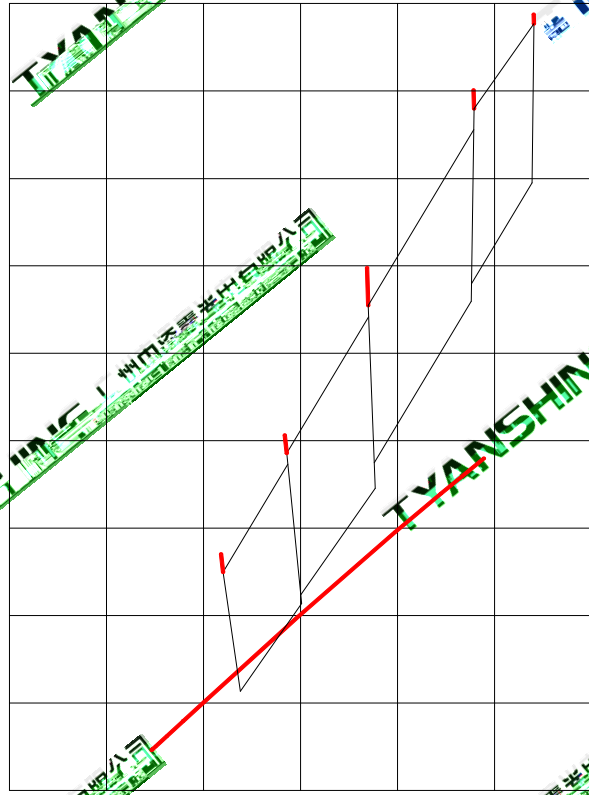
2.The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.

3.Precautions for ESD:

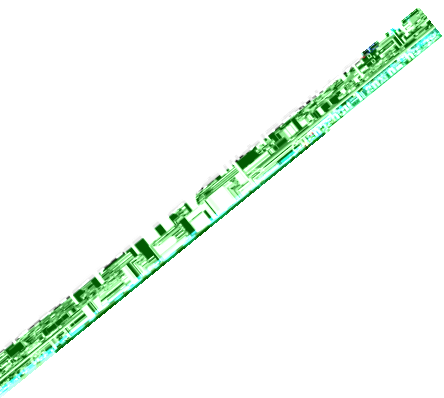
STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

Luminous Flux	v	If=1.0A	W	360	420	480	lm
		If=5.0A	W	1100	1300	1500	
Forward Voltage	V <sub>f</sub>	If=1.0A	W	2.8	—	4.0	V
		If=5.0A	W	3.0	—	4.0	
Viewing Angle at 50°	IV	2 1/2	—	W	—	120	Deg
Correlated Colour Temperature	CCT	If=1.0A	W	5000	—	6500	K
		If=5.0A	W	5200	—	7400	
Reverse Current	I <sub>R</sub>	—	W	—	—	—	μA
Thermal Resistance Junction to Case	R <sub>J-C</sub>	—	W	—	1.5	—	K/W
Temperature Coefficient of Voltage	V F/T	If=1.0A	W	—	-2.8	—	mV/
		If=5.0A	W	—	-2.95	—	

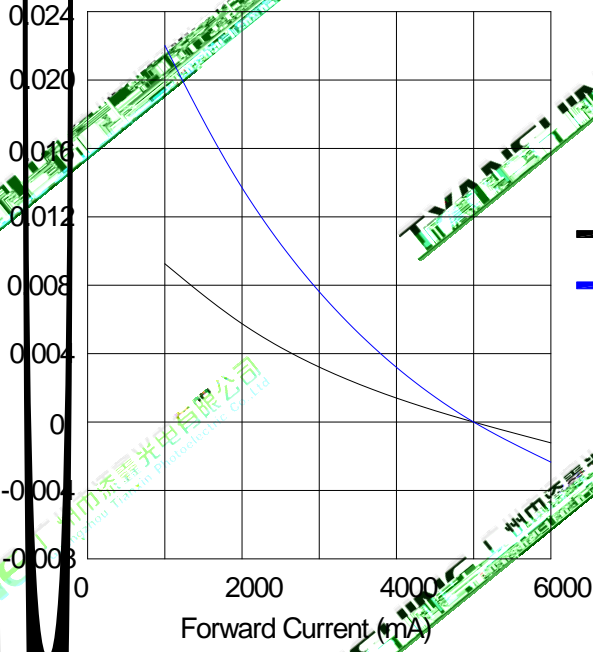
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. 1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance:±15%.
- 4.Forward voltage measurement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



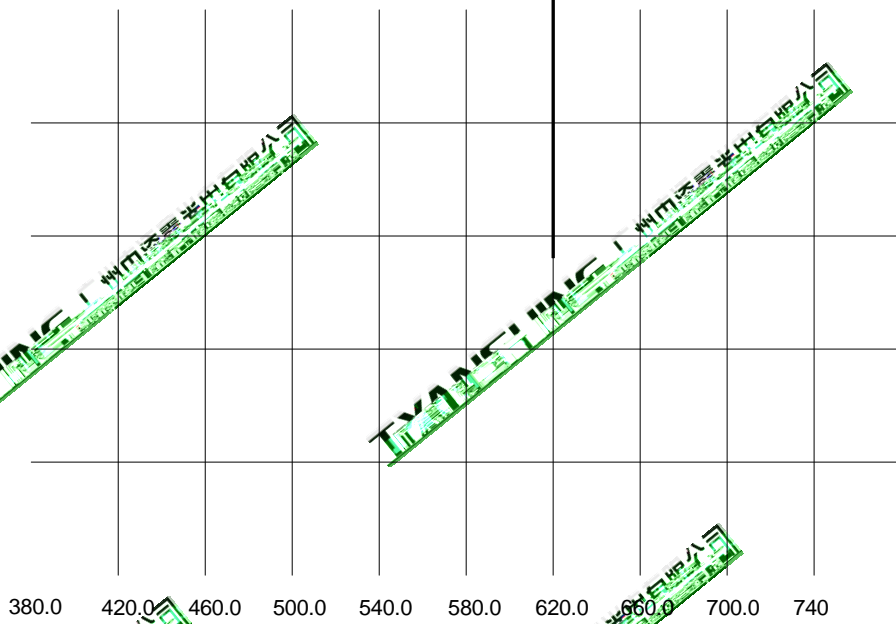
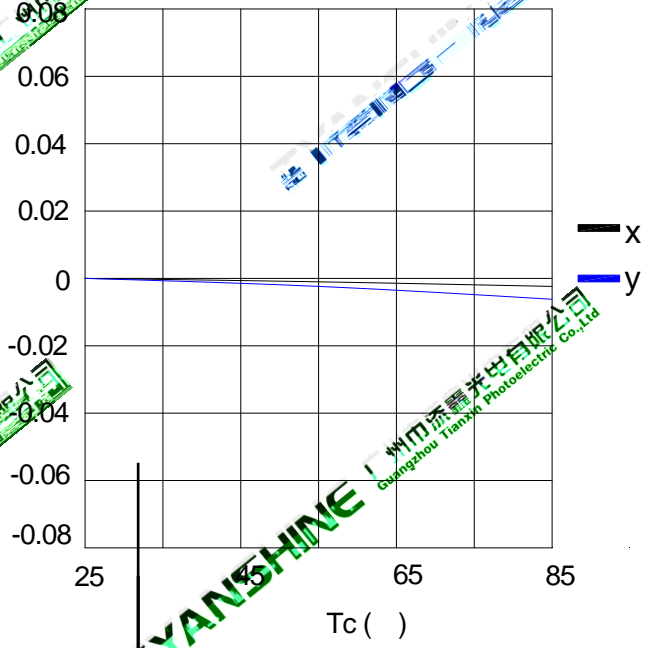
Region	CCT Range		X1	Y1	X2	Y2	X3	Y3	X4	Y4
	Min	Max								
H	5000K	5300K	0.3439	0.3795	0.3441	0.3977	0.3379	0.388	0.3376	0.368
G	5300K	5700K	0.3376	0.3659	0.3379	0.3856	0.327	0.3655	0.3276	0.3475
F	5700K	6100K	0.3277	0.3445	0.327	0.3642	0.3186	0.3486	0.32	0.3324
E	6100K	6500K	0.3201	0.3314	0.3187	0.3473	0.312	0.335	0.3138	0.3213



Relative Chromaticity VS. Current



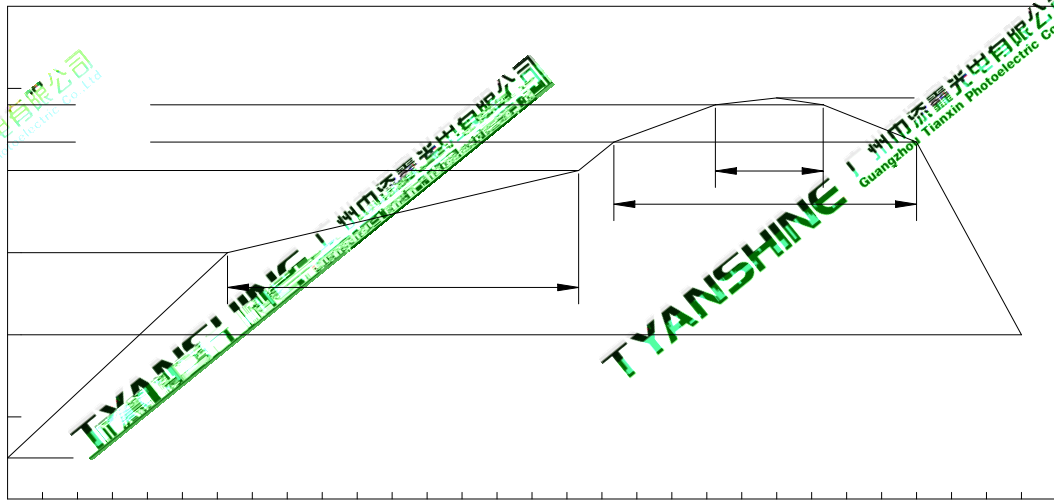
Relative Chromaticity VS. Temperature (IF=5.0A)



**R U**



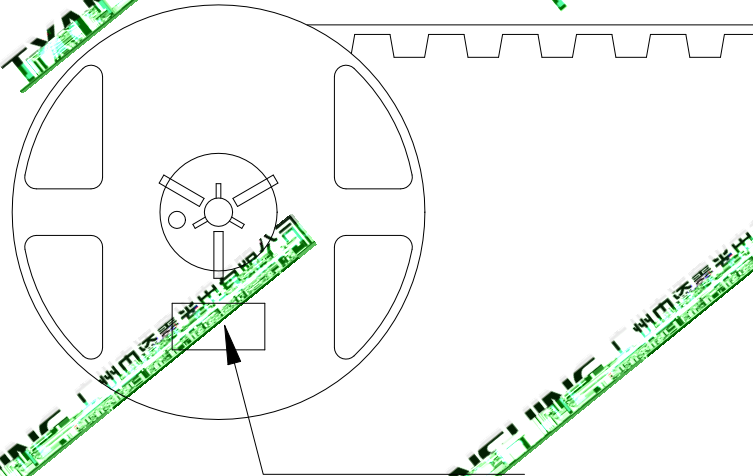
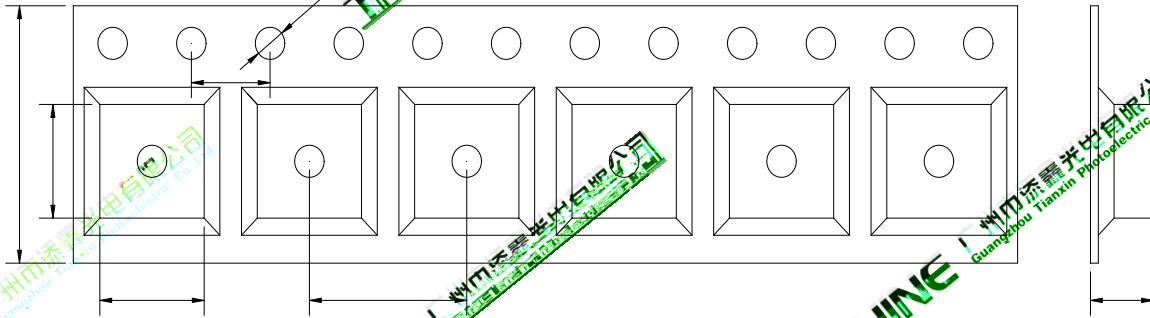
Temperature: 5 ~ 30 (41 ~ 86 )  
Humidity: 60% RH Max.



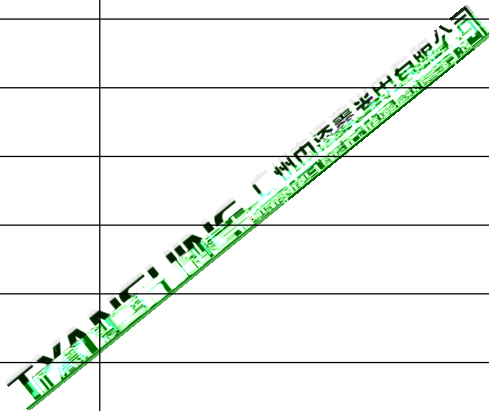
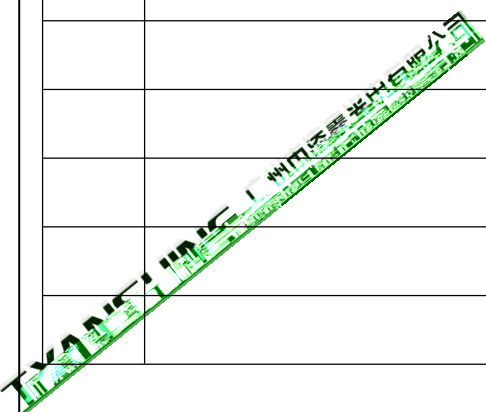
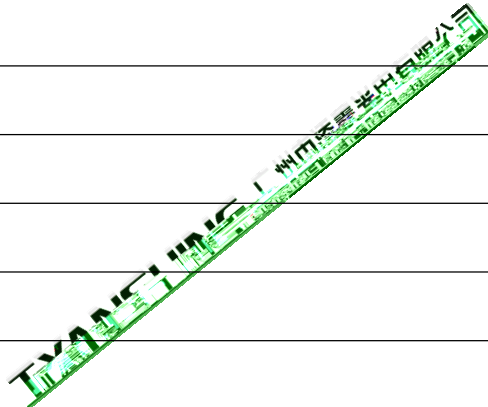
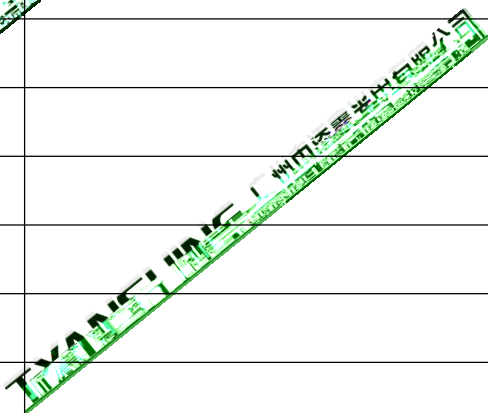
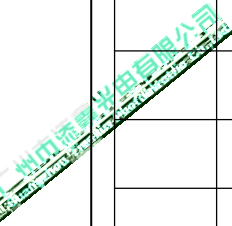
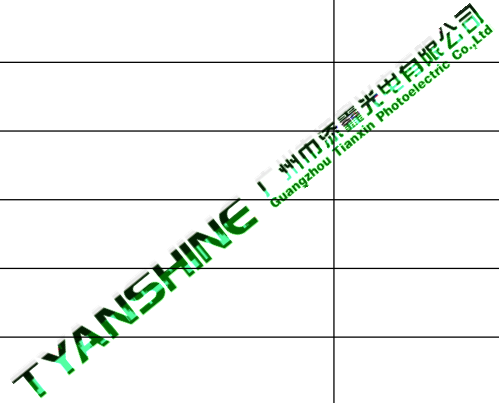
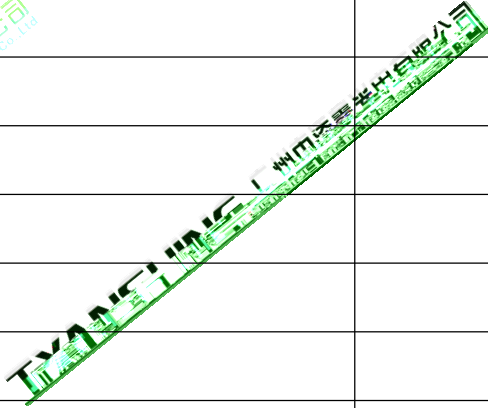
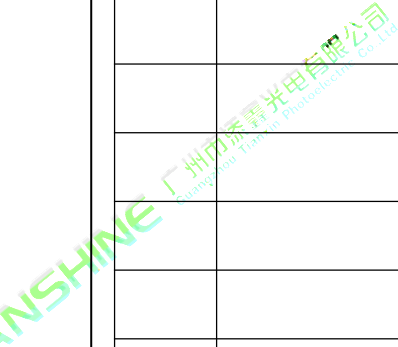
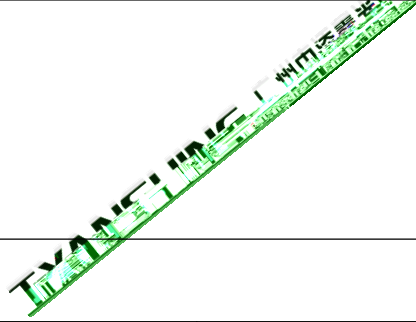
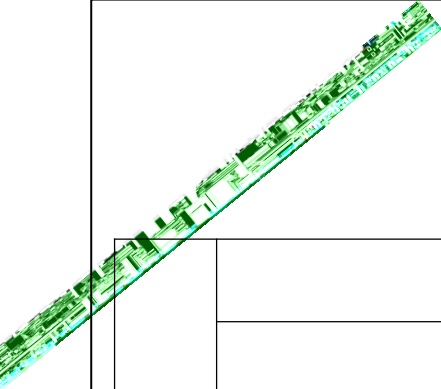
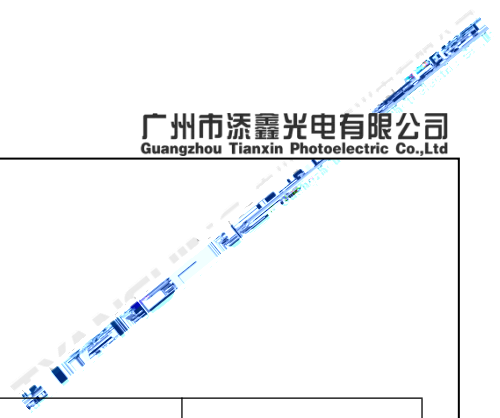
Ramp-up Rate to Preheat 25 to 150	-	-	2	3	K/s
Time $t_s$ $T_{Smin}$ to $T_{Smax}$	$t_s$	60	100	120	s
Ramp-up Rate to Peak $T_{Smax}$ to $T_p$	-	-	2	3	K/s
Liquidus Temperature	$T_L$	217			
Time above Liquidus temperature	$t_L$	-	80	100	s
Peak Temperature	$T_P$	-	245	255	
Time within 5% of the specified peak temperature $T_p \pm 5\%$	$t_p$	10	20	30	s
Ramp-down Rate $T_p$ to 100	-	-	3	6	K/s
Time 25% to $T_p$	-	-	-	480	-

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





1. All dimensions are in millimeters.
2. Tolerances are  $\pm 2.0$  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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