

Forward Current	IF	W1+W2+W3=1800*3	mA
Reverse Voltage	VR	Not designed for reverse operation	V
Power Dissipation	PD	54	W
Junction Temperature	Tj	150	
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	Tstg	-40~+70	
Operation Temperature	Topr	-30~+125	

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:

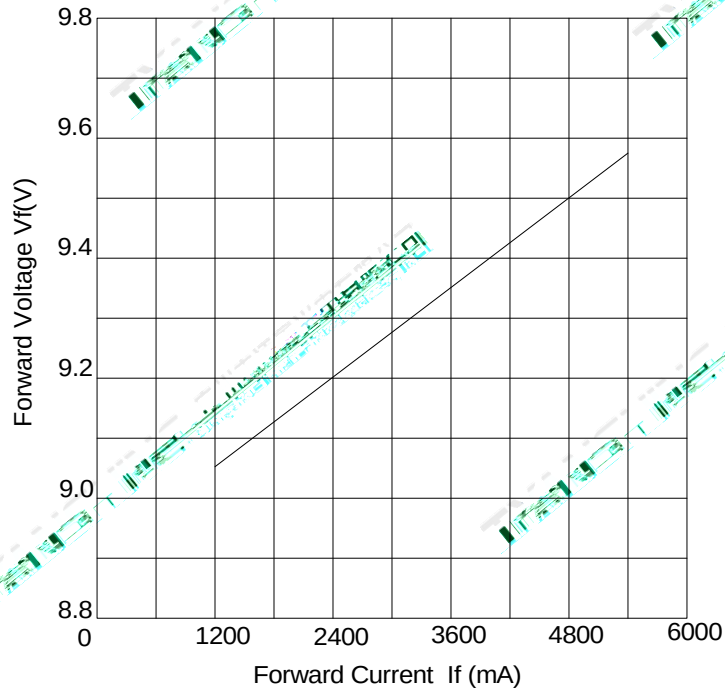
STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

Luminous Flux	Φ_v	If=5400mA	W1+W2+W3	5000	5700	6400	lm
Forward Voltage	V_f		W1+W2+W3	9.2	9.5	10.0	V
Correlated Colour Temperature	CCT	If=1000mA	W	5700	6100	6500	K
Viewing Angle at 50° IV	$2\theta_{1/2}$	θ	W	θ	120	θ	Deg
Reverse Current	I_R	θ	W	θ	θ	θ	mA
Thermal Resistance Junction to Case	$R_{\theta J-C}$	If=5400mA	W	θ	0.28	θ	K/W
Temperature Coefficient of Voltage	V F/T		W	θ	-2.8	θ	mV/

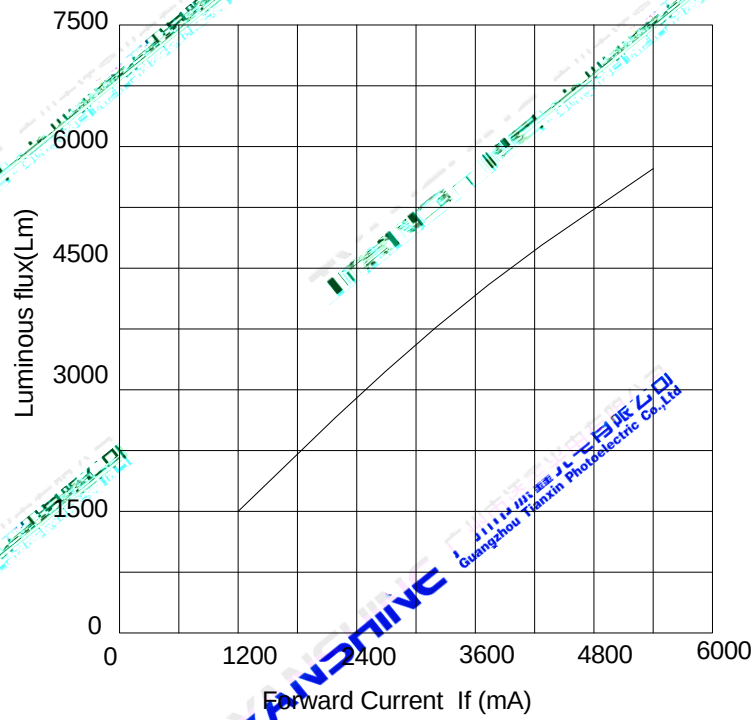
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- 4.Luminous flux measurement tolerance: $\pm 15\%$.
- 5.Forward voltage measurement tolerance: $\pm 0.15V$.

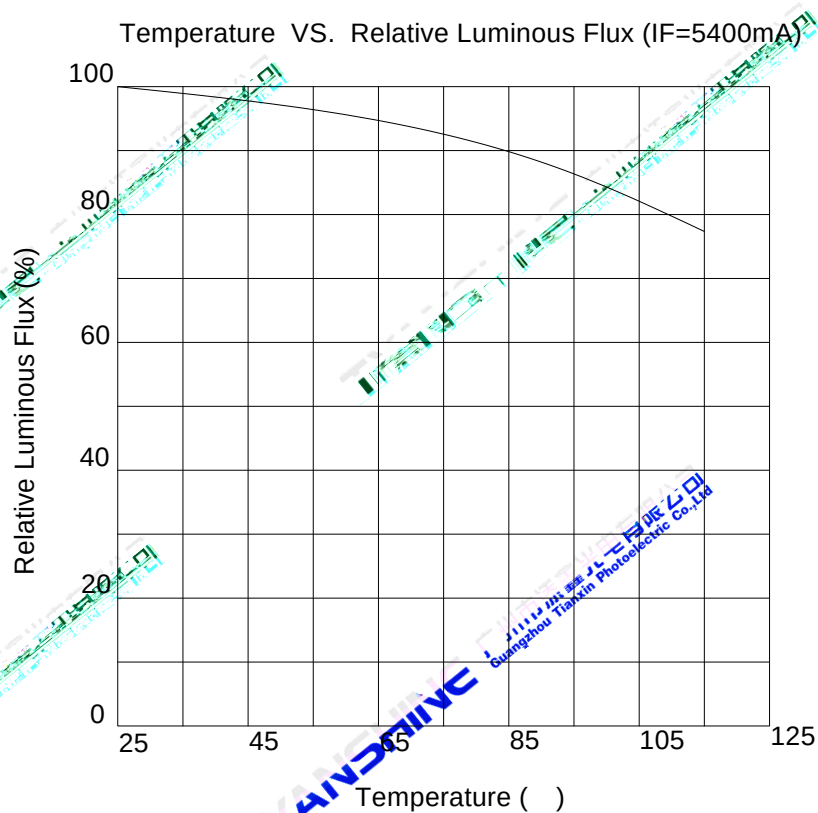
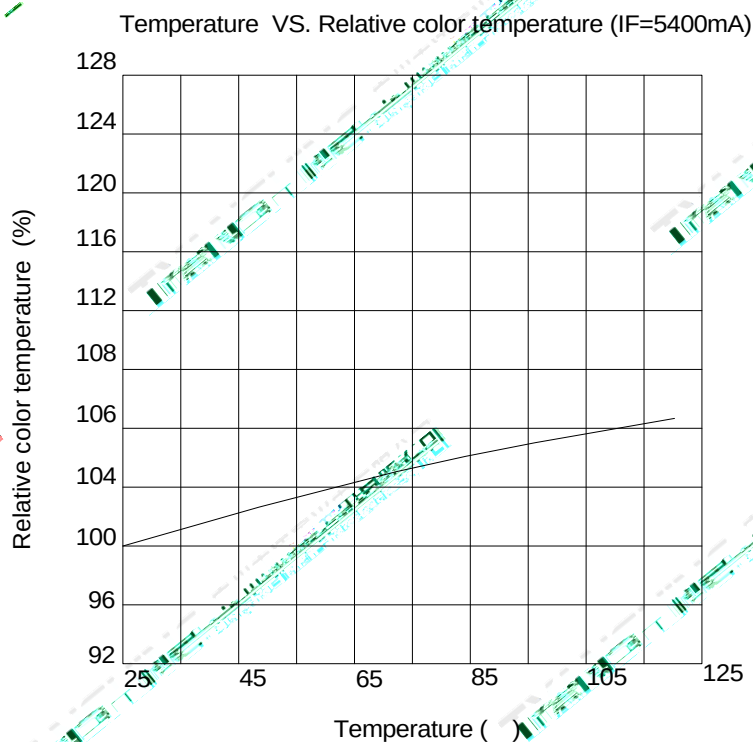
(25 Ambient Temperature Unless Otherwise Noted)

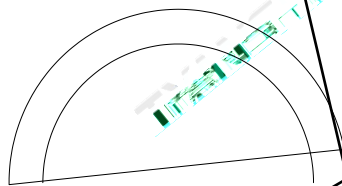
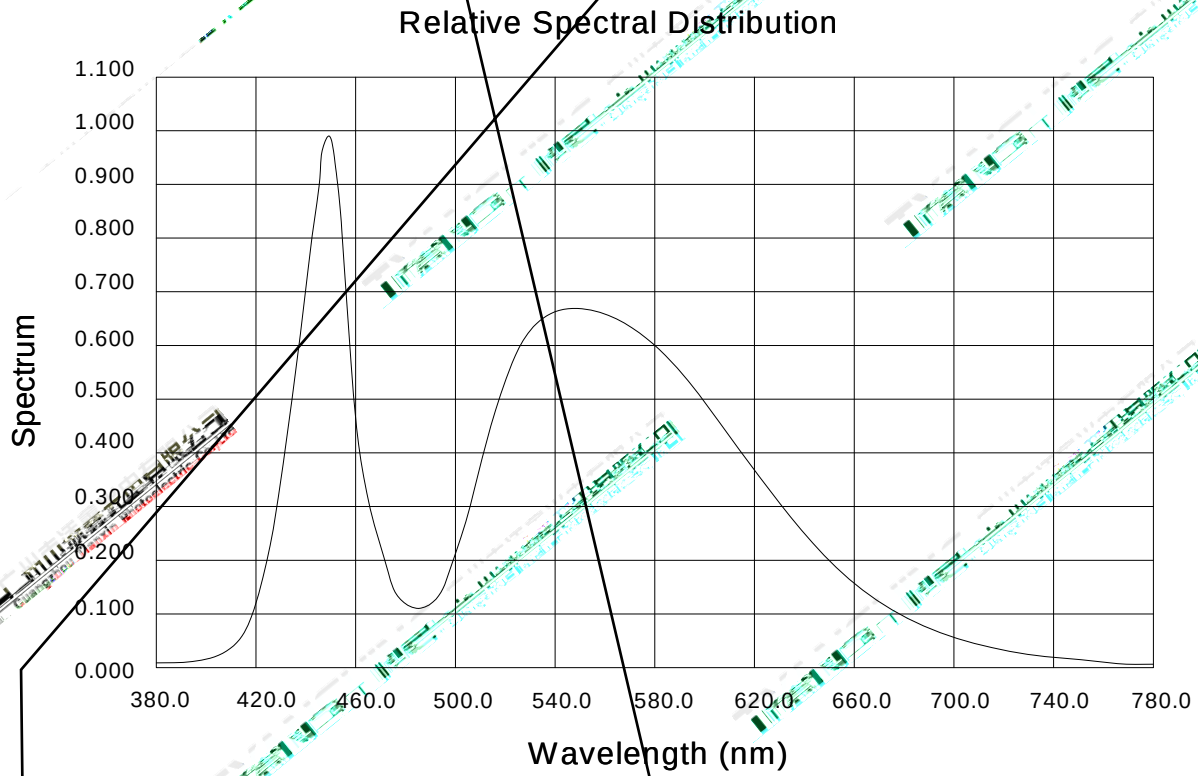
Forward Current VS. Forward Voltage



Forward Current VS. Luminous flux

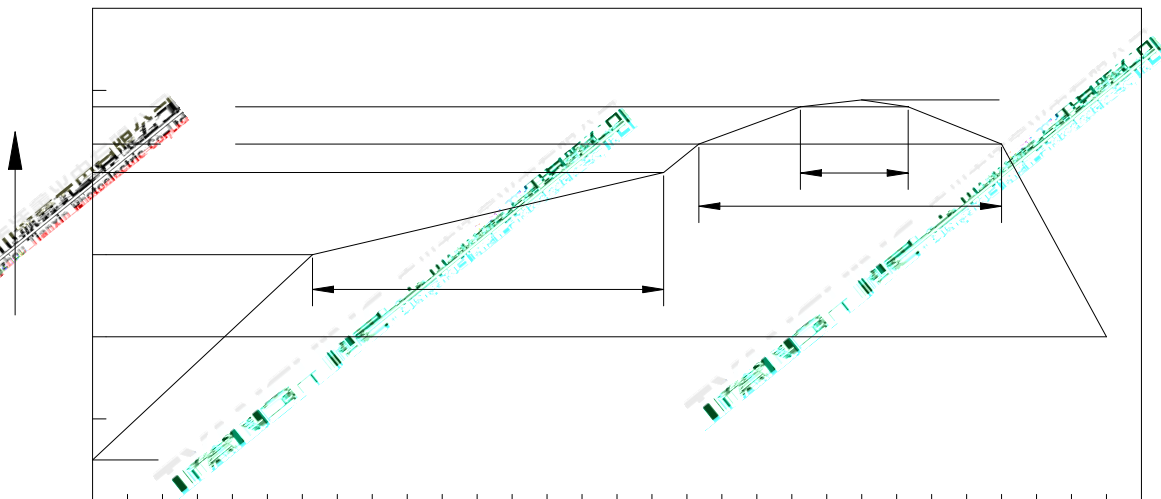






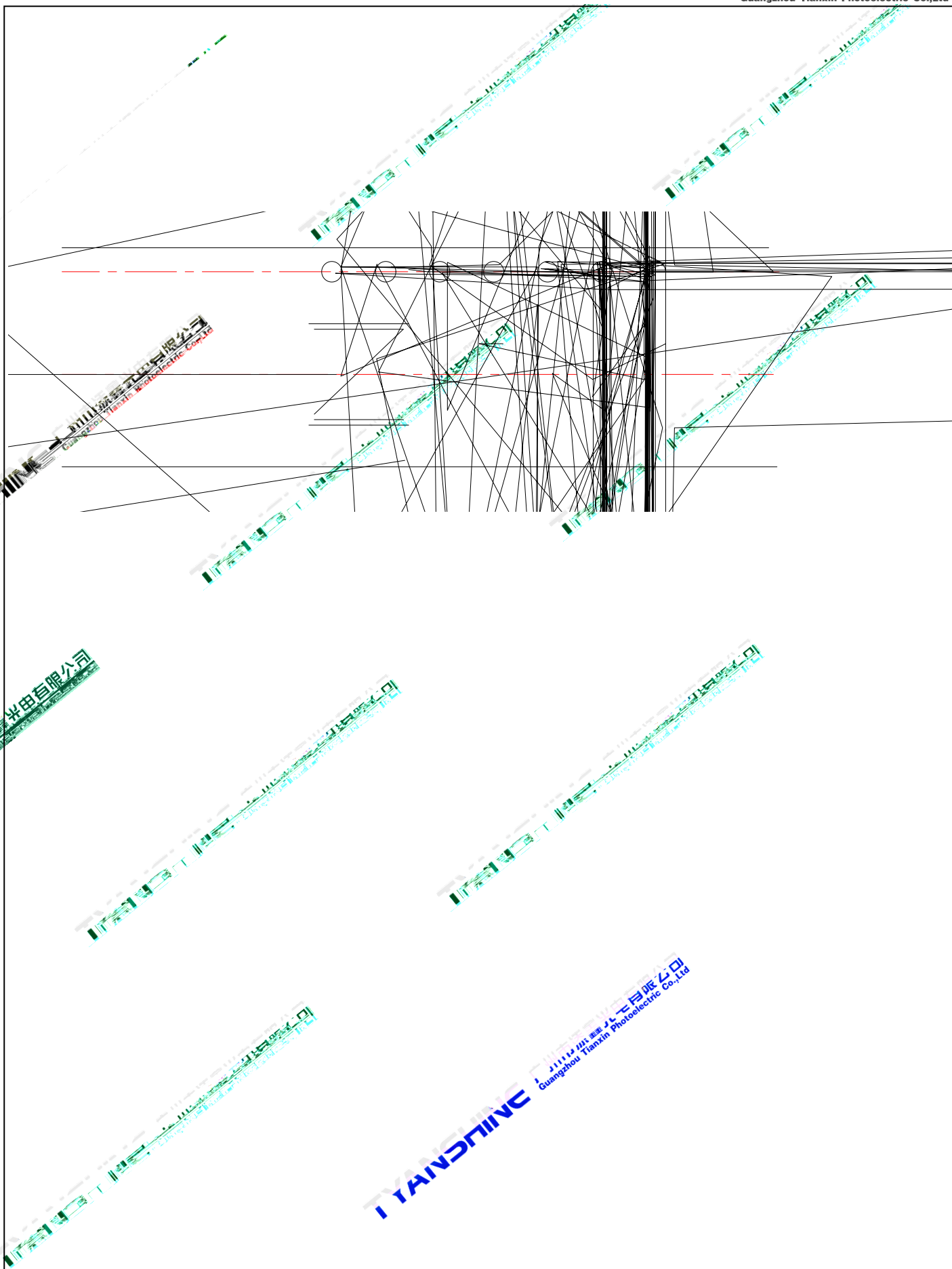
Temperature: 5 ~ 30 (41 ~ 86)

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	260	
Time within 5 of the specified peak temperature T_p-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	-

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



Part No.	TX-7070W54FSC3-NU3CD-03	Spec No.	WKF-EK0029	Page	9 of 9
----------	-------------------------	----------	------------	------	--------