Excellent transiting heat from LED chip operating under 2400mA*3.

Ceramic eutectic package allows it to have minimal internal stress and excellent thermal path.

Flip chip coated with package, the output of lumen is stable.

High luminous output.

Encapsulated materials are environmentally certified and meet environmental requirements.

GaN	Cold white	Automobile lighting

Forward Current	IF	W1+W2+W3=2400*3	mA
Reverse Voltage	V_R	Not designed for reverse operation	V
Power Dissipation	P_D	66	W
Junction Temperature	Tj	150	
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	T_{stg}	-40~+70	
Operation Temperature	T_{opr}	-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	5400	5850	6450	lm
Forward Voltage	V_f		W	9.2	9.5	10.0	V
Correlated Colour Temperature	CCT	If=1000mA	W	5300	5850	6300	K
Viewing Angle at 50 IV	$2\theta_{1/2}$	—	W	—	120	—	Deg
Reverse Current	I_R	—	W	—	—	—	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	If=5400mA	W	—	0.2	—	K/W
Temperature Coefficient of Voltage	V F/T		W	—	-2.8	—	mV/

Region	CCT Range(K)		X1	Y1	X2	Y2	X3	Y3	X4	Y4
	Min	Max								
G12	5300K	5700K	0.3374	0.3592	0.3276	0.3470	0.3273	0.3620	0.3380	0.3757
G10	5700K	6000K	0.3277	0.3432	0.3218	0.3369	0.3207	0.3501	0.3274	0.3570
F01	6000K	6300K	0.3222	0.3325	0.3167	0.3263	0.3152	0.3404	0.3209	0.3473

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.

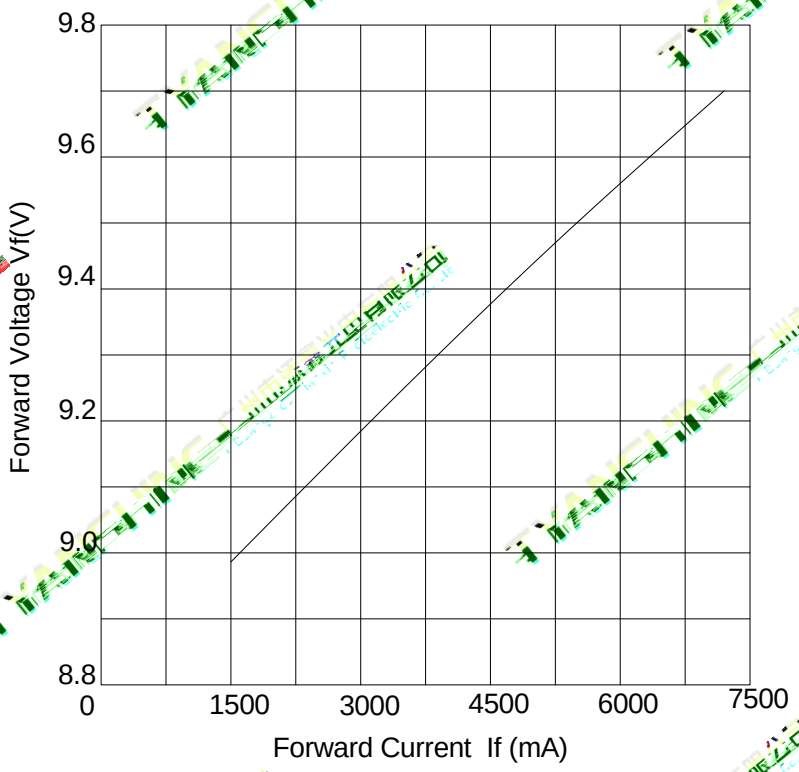
3.The dominant wavelength (λd) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

4.Luminous flux measurement tolerance:±15%.

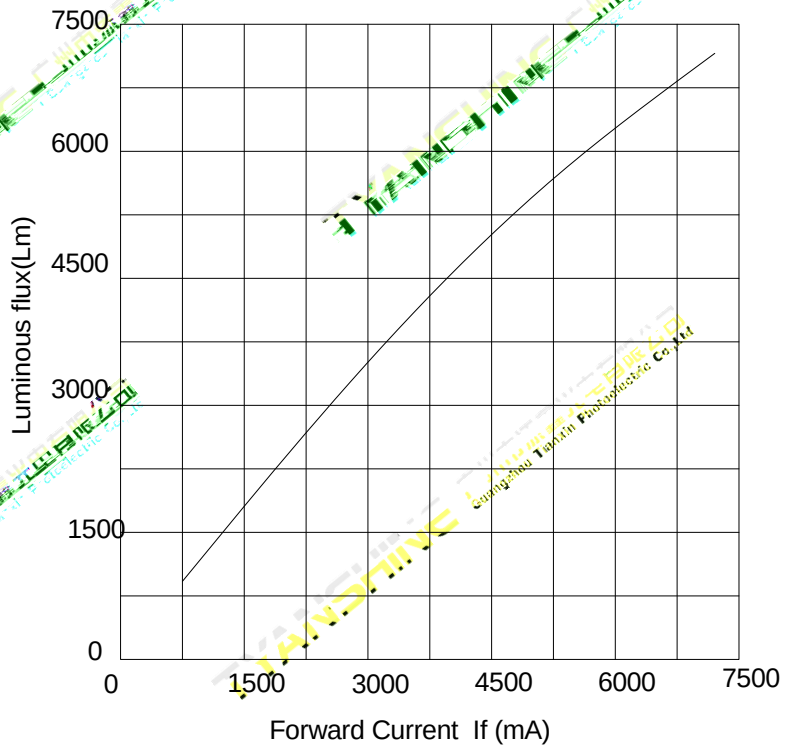
5.Forward voltage measurement tolerance:±0.15V.

(25 Ambient Temperature Unless Otherwise Noted)

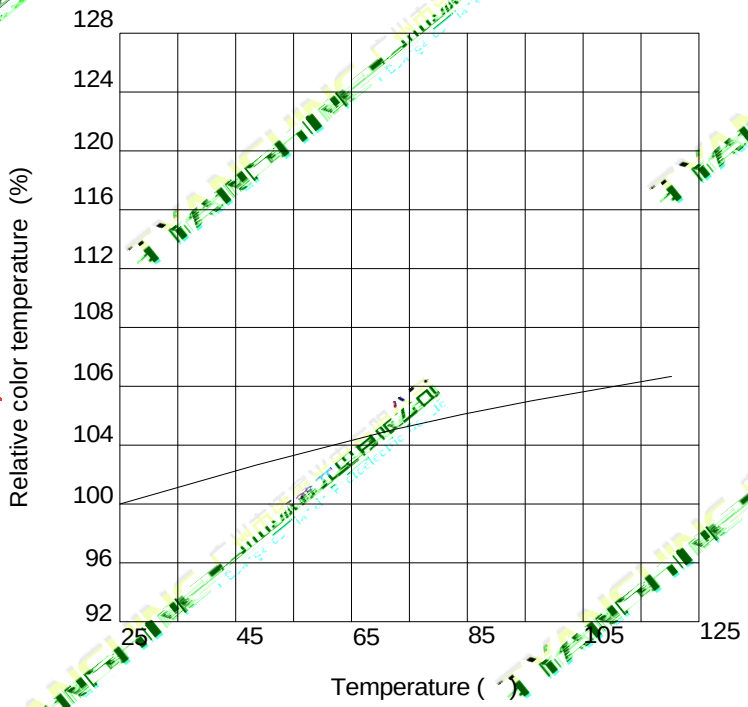
Forward Current VS. Forward Voltage



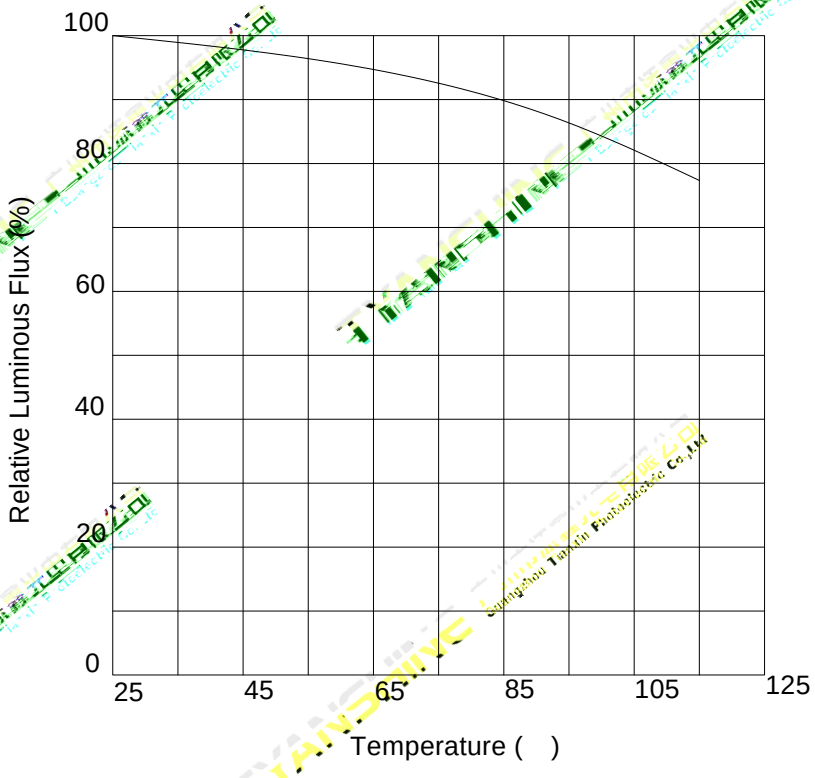
Forward Current VS.Luminous flux

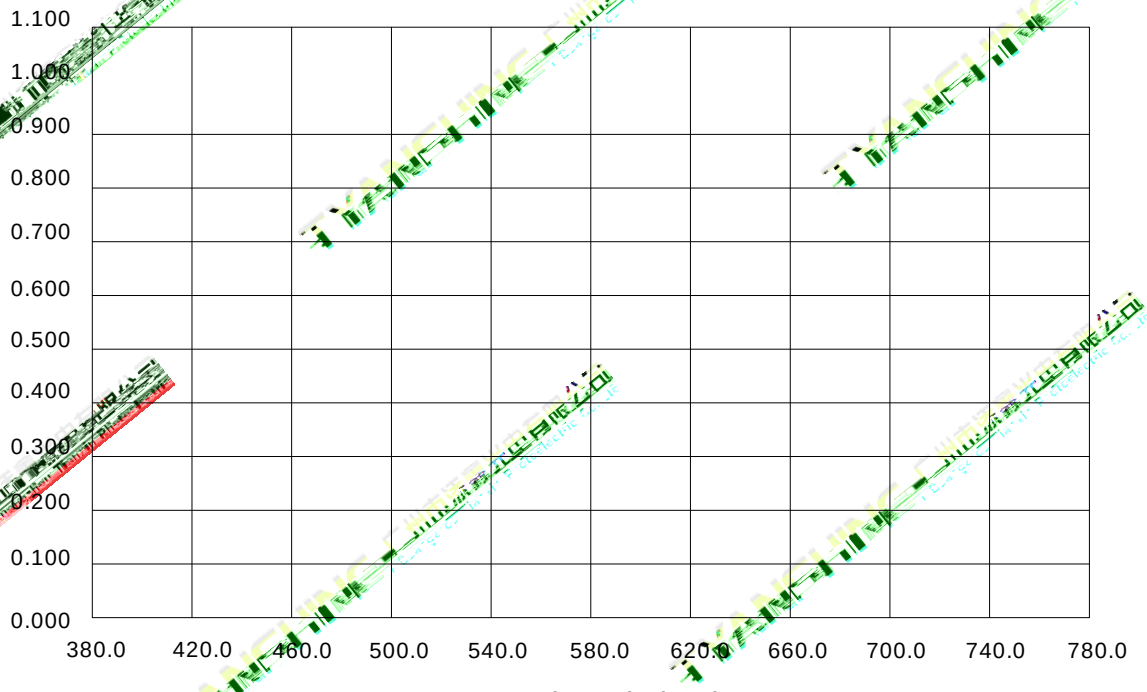


Temperature VS. Relative color temperature (IF=5400mA)



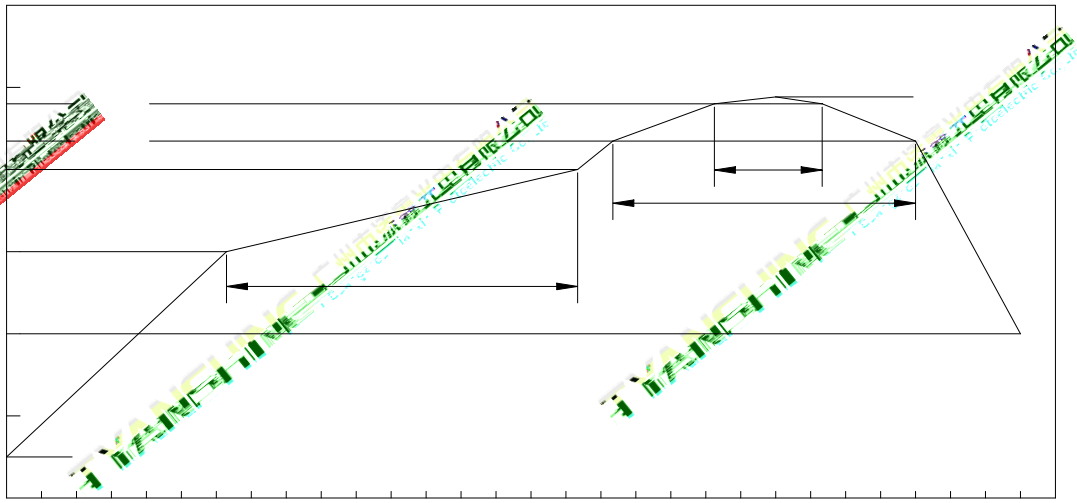
Temperature VS. Relative Luminous Flux (IF=5400mA)




1.100
1.000
0.900
0.800
0.700
0.600
0.500
0.400
0.300
0.200
0.100
0.000
380.0
420.0
460.0
500.0
540.0
580.0
620.0
660.0
700.0
740.0
780.0
Wavelength (nm)

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.