

# 120 OGVCND34-03F

## TECHNICAL

### F : Features

- ◆ Excellent high heat LED chip design of 12A.
- ◆ High luminous efficiency.
- ◆ Non-UV.
- ◆ Excellent thermal stability, fully certified and tested in all environments.

### C M : Chip Material

- ◆ GaN

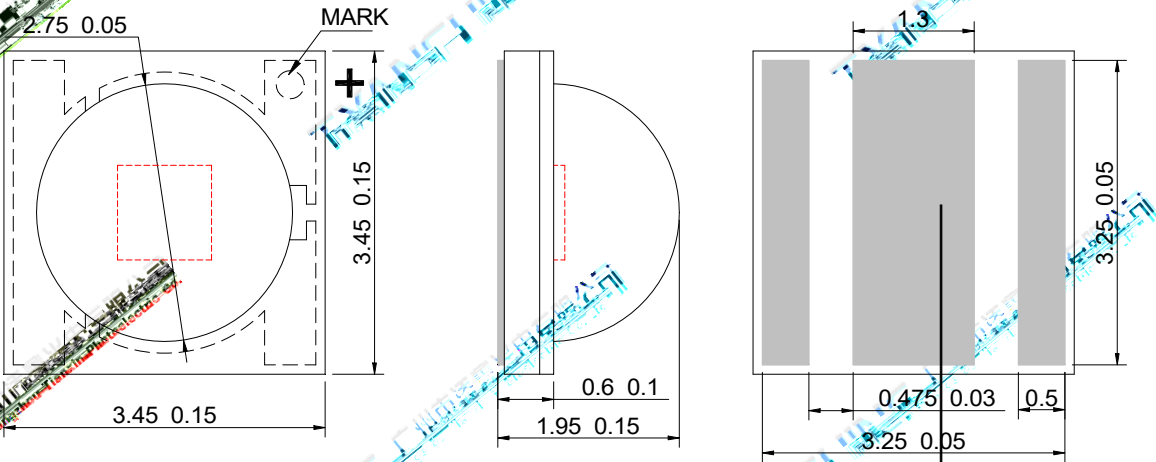
### E C : Emission Color

- ◆ Red

### A : Applications

- ◆ Portable Flashlight
- ◆ General Lighting
- ◆ General Lighting

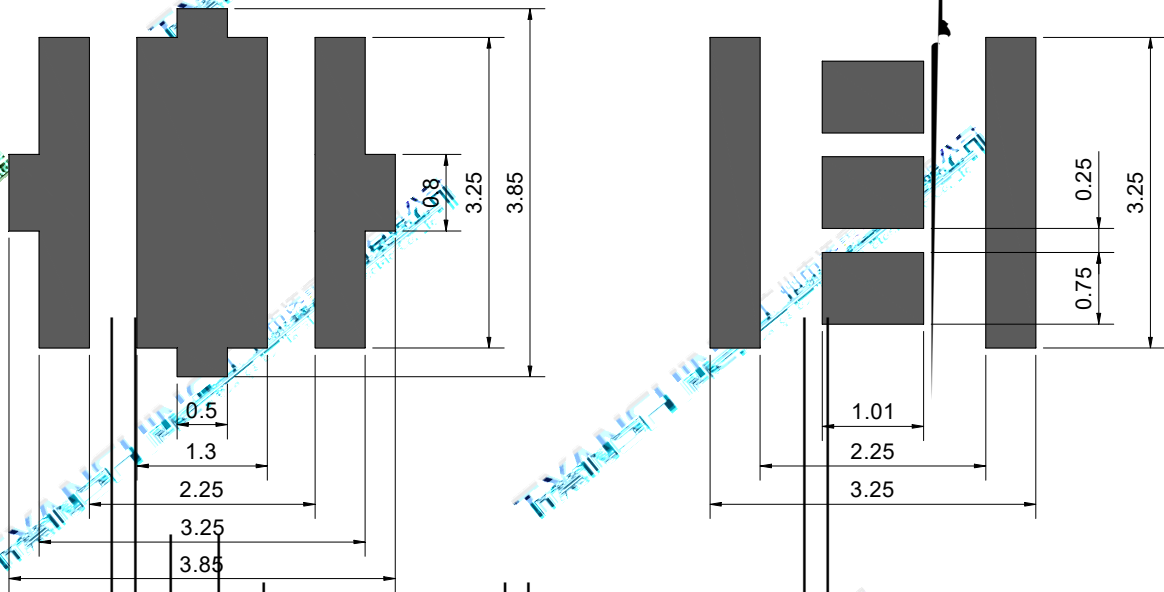
D :



T ie

Side ie

B ie



Rec e ded lde ad

Rec e ded e cil a e

1. All dimensions are in millimeters.
2. Tolerances are as indicated.

A M ( =25°C)

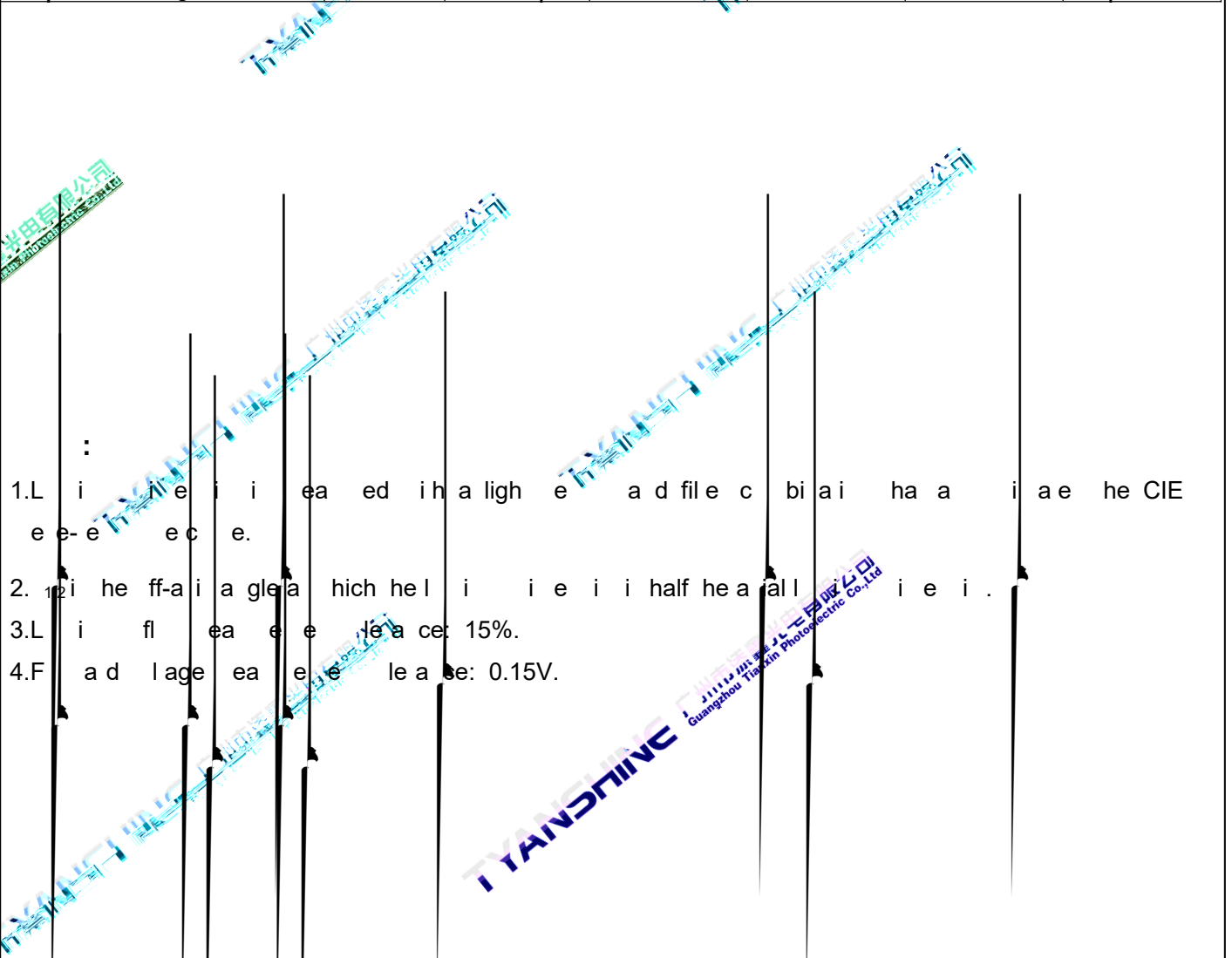
F a d C e	IF	1200	A
Re e e V l a g e	V <sub>R</sub>	5	V
Re e e C e	I <sub>R</sub>	2	A
P e D i a i	P <sub>D</sub>	4000	W

J c ag

1. Specific a e bjec cha ge ih ice.
2. The da hi ecifica i f efe e ce l a d he ac al da ai i acc da ce ih he ack ledg e .
3. P eca i f ESD:
- STATIC SHIELD Elec ici a d ge da age he LED. I i ec e ded e a i ba d a i-elec a ic gl e he ha dli g he LED. All de ice , e i e a d achi e be e l g ded.

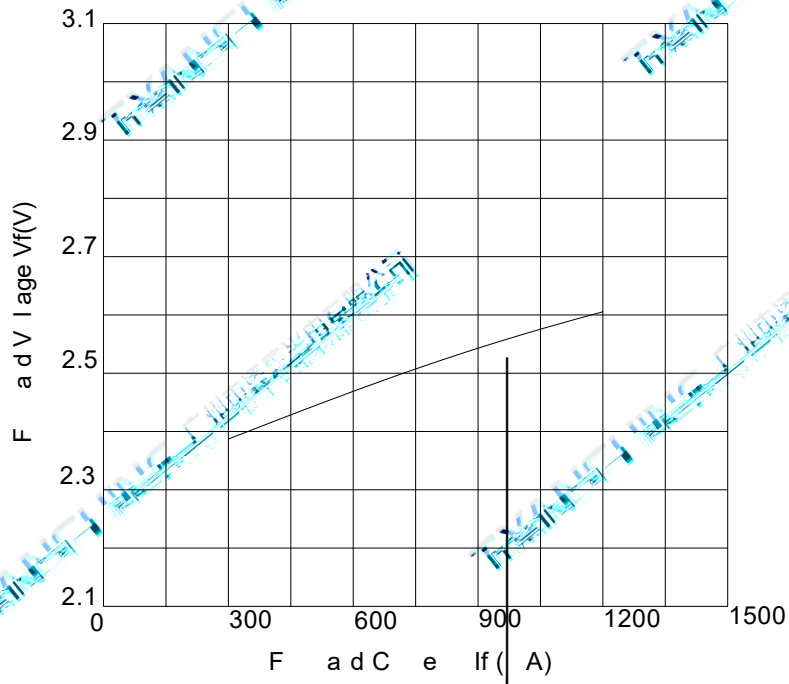
K

E		C		C		M		M		M	
L	Fl					120	135				
F	ad V l age	V <sub>f</sub>				2.2	2.5	2.8			V
Peak E	i i Wa ele gh			If=700	A	627	632	637			
D	i a Wa ele gh	d				617	622	627			
S ec al Li e Half-Wid h		△				12	16	20			
Vie i g A gle a 50% IV		2 1/2					120				Deg
Re e e C e		I <sub>R</sub>						2			A
The al Re i a ce J c i Ca e		R <sub>J-C</sub>					6.0				KW
Te e a e C efficie f V l age		V <sub>Δ</sub> F/T	If=700	A			-1.3				V/°C

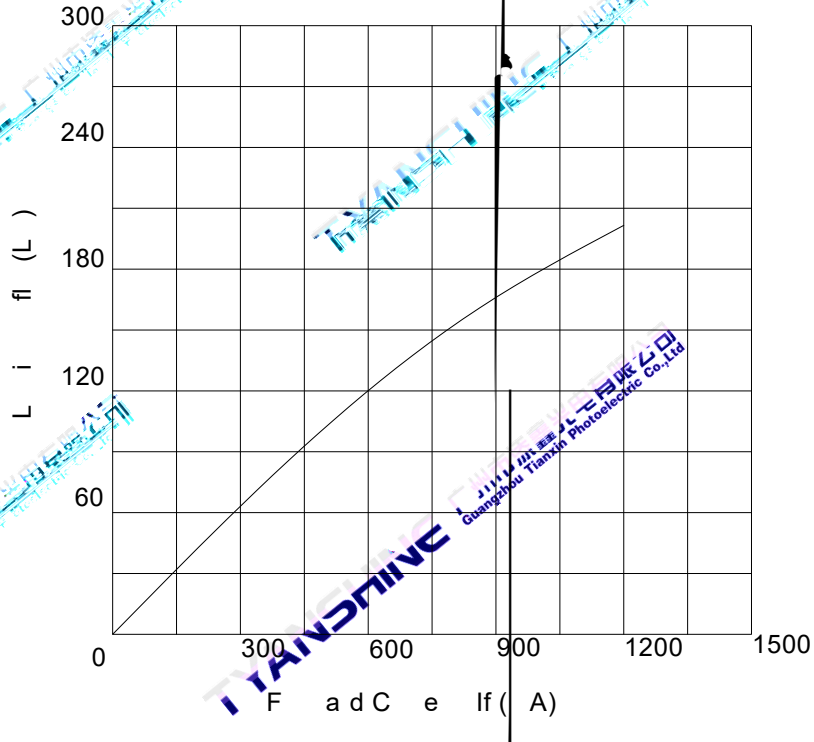


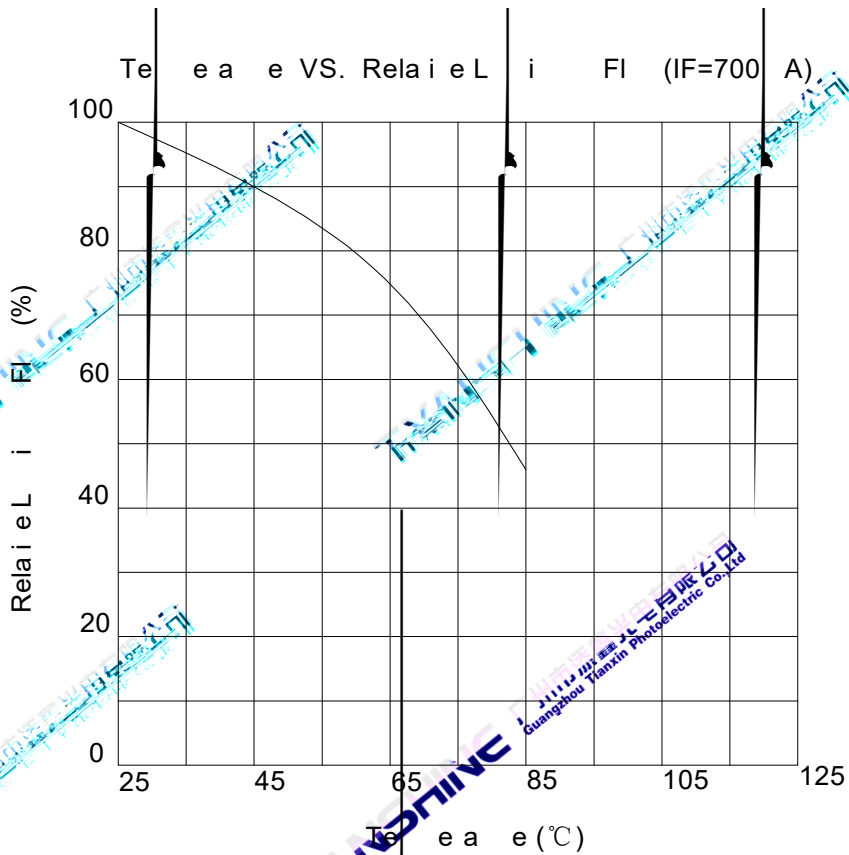
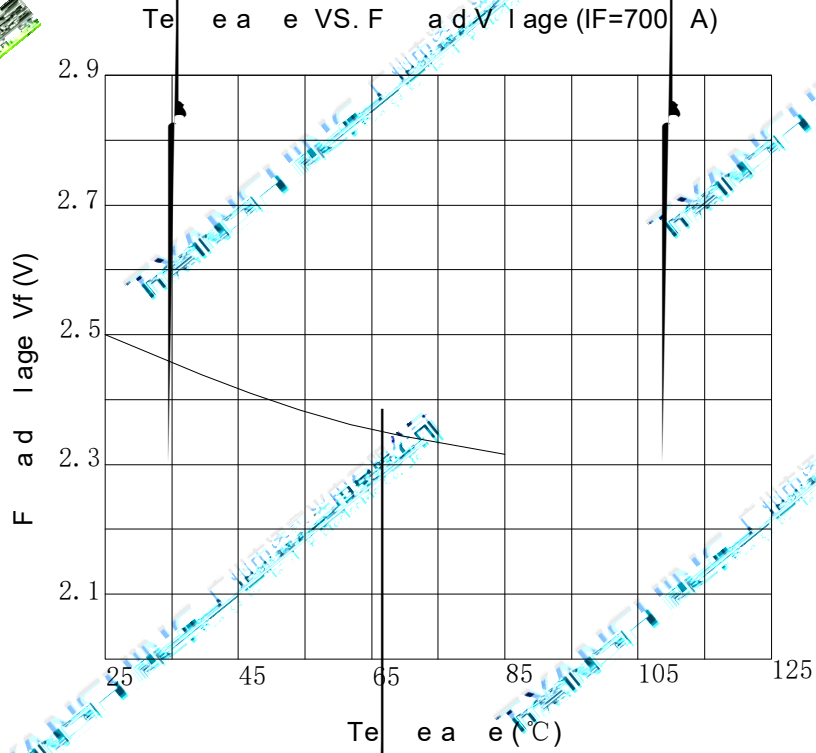
E / C C  
(25°C Ambient Temperature Under Ohmic Condition)

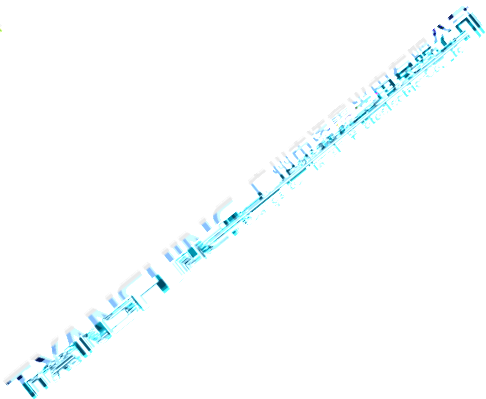
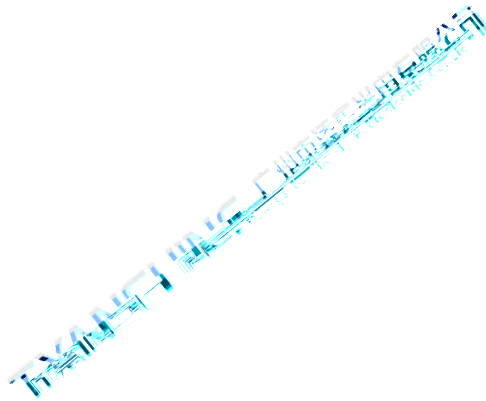
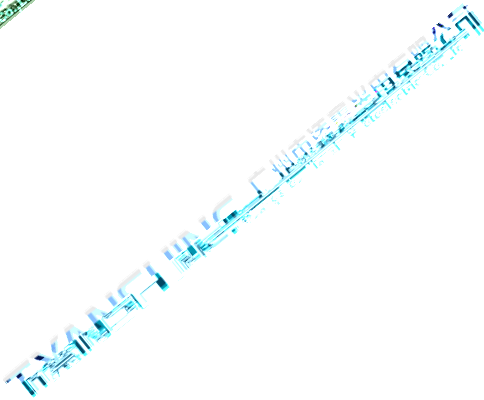
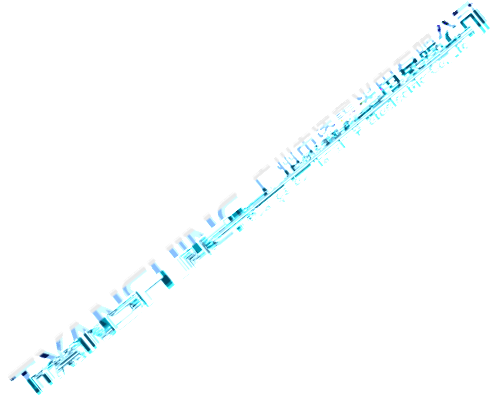
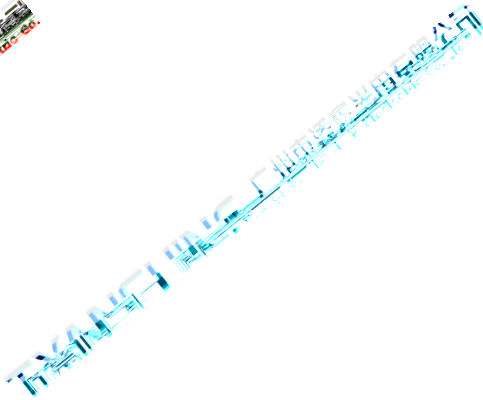
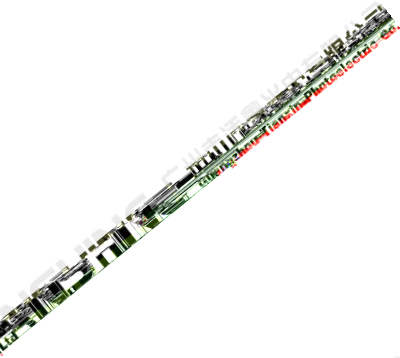
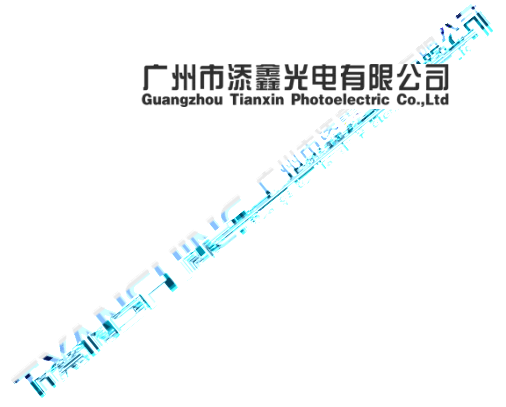
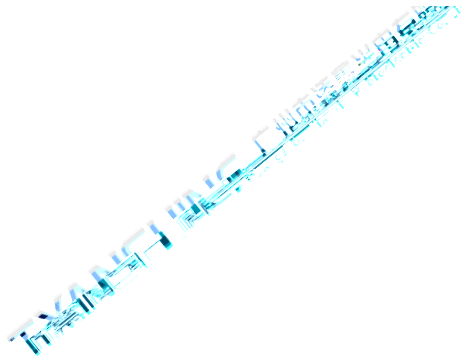
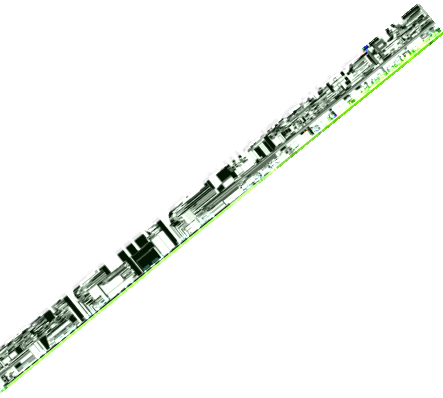
Forward Current VS. Forward Voltage



Forward Current VS. Luminous Flux



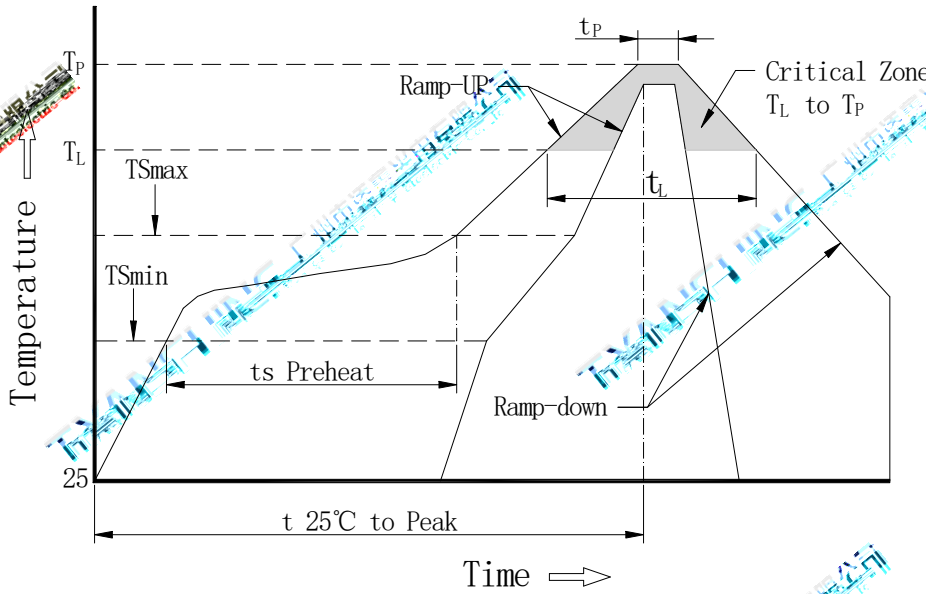




**E C**  
Temperature: 5°C 30°C (41°F 86°F)

Humidity: 60% RH Max.

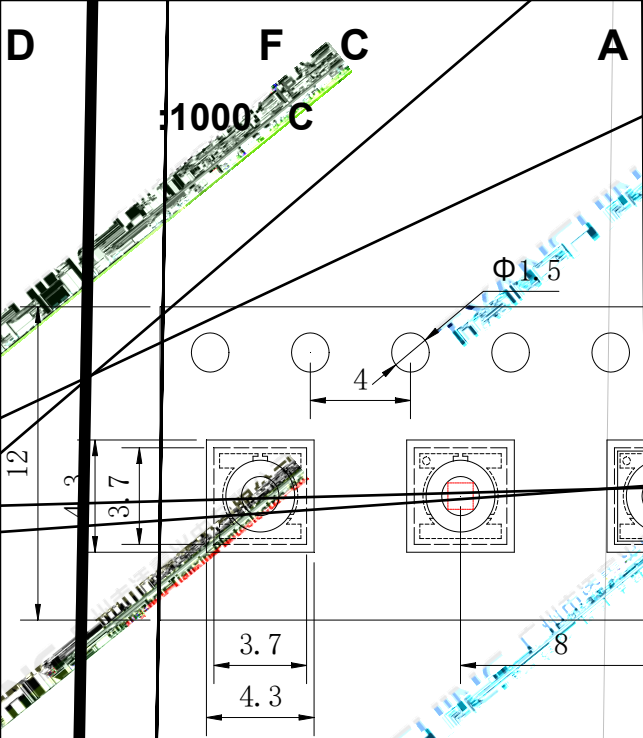
**C**  
Use the conditions in the figure.



F		-F ( B 35A 0.3)	
Age Rate	-U Rate ( $T_a - T_i$ )	3°C/decade	
Preheat: Temperature	Preheat: Temperature	130°C	
Preheat: Temperature	Preheat: Temperature	190°C	
Preheat: Time	Preheat: Time	120-180 sec	
Time to Maximum Absorbance: Temperature	Time to Maximum Absorbance: Temperature	230°C	
Time to Maximum Absorbance: Time	Time to Maximum Absorbance: Time	60-150 sec	
Peak/Classification Temperature	Peak/Classification Temperature	255°C	
Time to Within 5°C of Actual Peak Temperature	Time to Within 5°C of Actual Peak Temperature	10-35 sec	
Rate -Down Rate	Rate -Down Rate	5°C/decade	
Time to 25°C Peak Temperature	Time to 25°C Peak Temperature	7 min	
All elements refer to the package, sealed package bottom face.			



TYANSHINE



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