

High Power LED chip

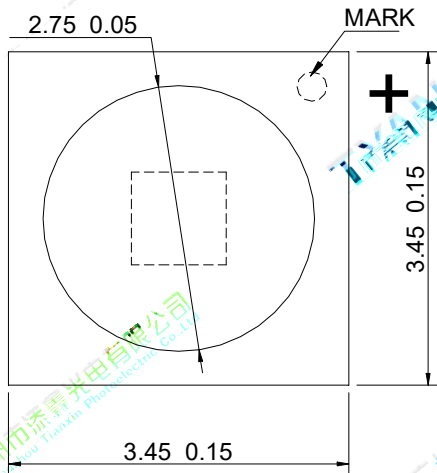
High Power  
UV.

Electrical and optical properties are all certified and reliable.

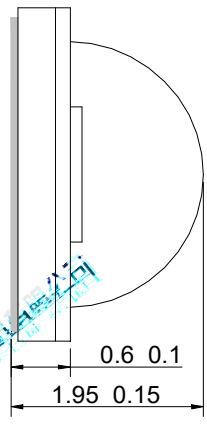
GaN

Blue

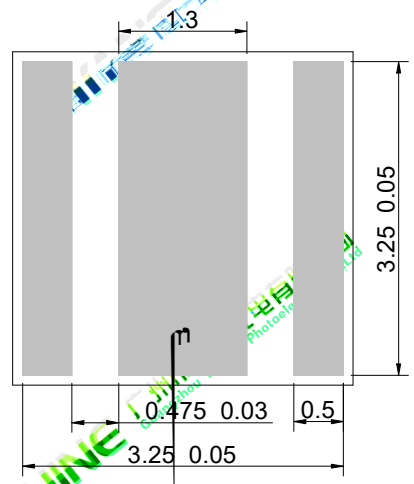
Aluminum Gallium Nitride  
Aluminum Gallium Nitride  
Gallium Nitride



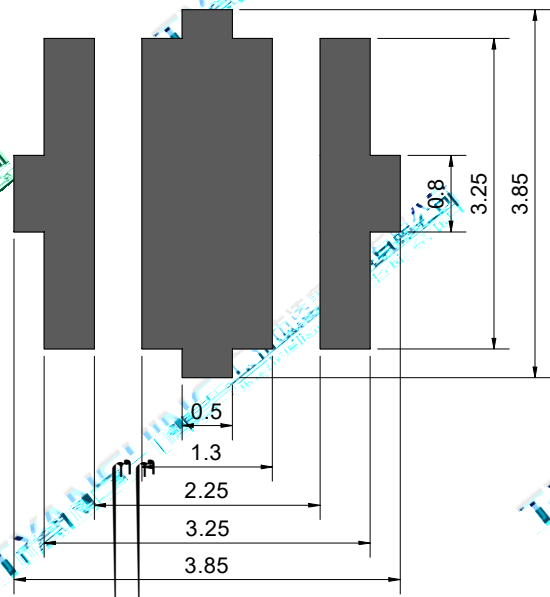
Top view



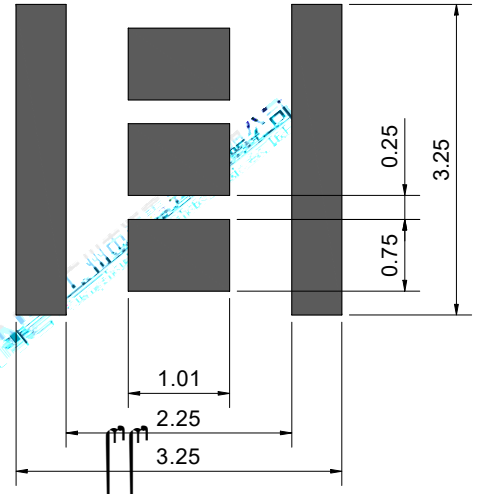
Side view



Bottom view



Top view of pads



Bottom view of pads

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

F adC e	IF	2500	A
Re e eV l age	V <sub>R</sub>	N de ig ed f e e e e a i	V
P e Di i ai	P <sub>D</sub>	9.75	W
J ci Te e a e	T <sub>j</sub>	150	
Elec a ic Di cha ge Th e h ld (ESD)	ESD	ESD e ii e de ice	V
S age Te e a e	T <sub>g</sub>	-40 +70	
O e ai Te e a e	T	-30 +85	

1. Specific a e bjec cha ge in ice.

2. The da a hi ecifica i i f efe e ce l a d he ac and a a i i racc da ce i h he ack ledg e .

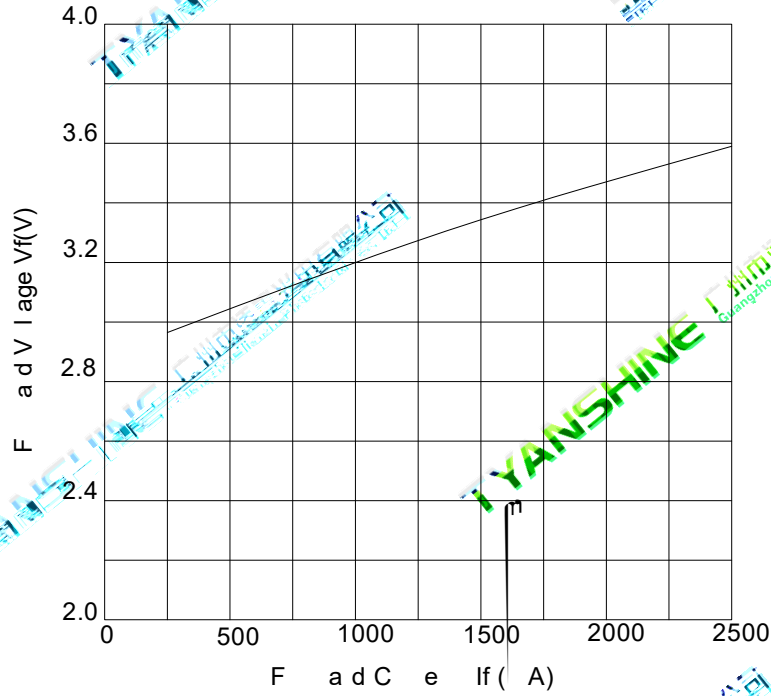
3. Peca f ESD:  
STATIC SHIELD Elec ici a d ge da age he LED. I i ec e ded e a i ba d a i-elec a ic gl e he ha dli g he LED. All de ice , e i e a d achi e be e l g ded.

L i F l		B1	45	50	55	
		B2	87	94	100	
F a d V l a g e	$V_f$	B	2.8	3.2	3.6	V
Vie i g A g l e a 50 IV	$2 \frac{1}{2}$	B		120		Deg
Peak E i i Wa ele g h		B1	444	448	452	
		B2	461	466	471	
D i a Wa ele g h	d	B1	448	452	456	
		B2	465	470	475	
Vie i g A g l e a 50 IV	$2 \frac{1}{2}$	B	15	19	24	
Re e e C e	$I_R$	B				A
The al Re i a ce J c i C a e	$R_{J-C}$	B		4.9		K/W
Te e a e C efficie f V l a g e	$V_{F/T}$	B		-2		V/

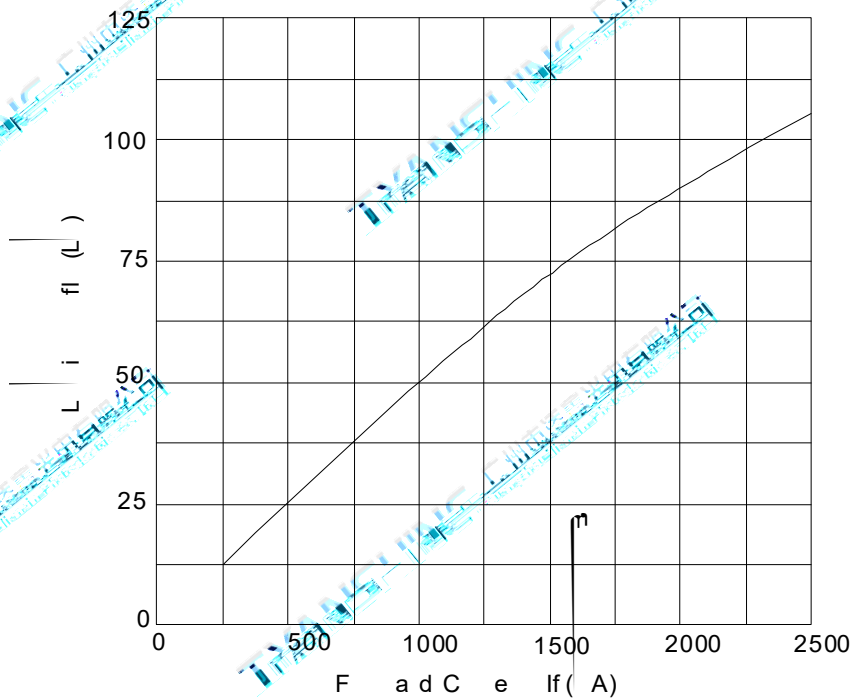
1. L i i e i i e a e d i h a l i g h e a d f i l e c b i a i h a a i a e h e C I E e e e e c e.
2.  $\frac{1}{2}$  i h e f f a i a g l e a h i c h h e l i i e i i h a l f h e a i a l l i i e i .
3. L i f l e a e e l e a c e : 15%.
4. F a d l a g e e a e e l e a c e : 0.15V.

(25 A bie Te e a eU le Ohe i eN ed)

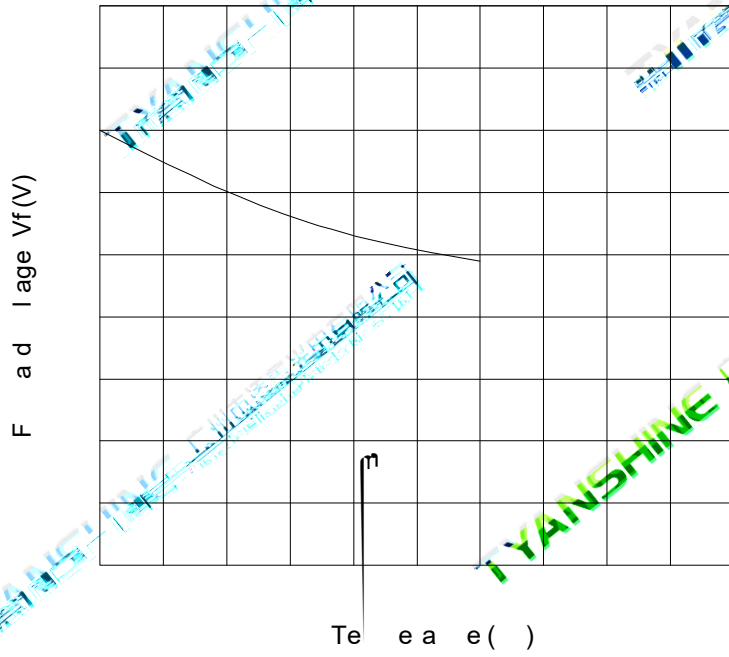
F a d C e VS. F a d V l a g e



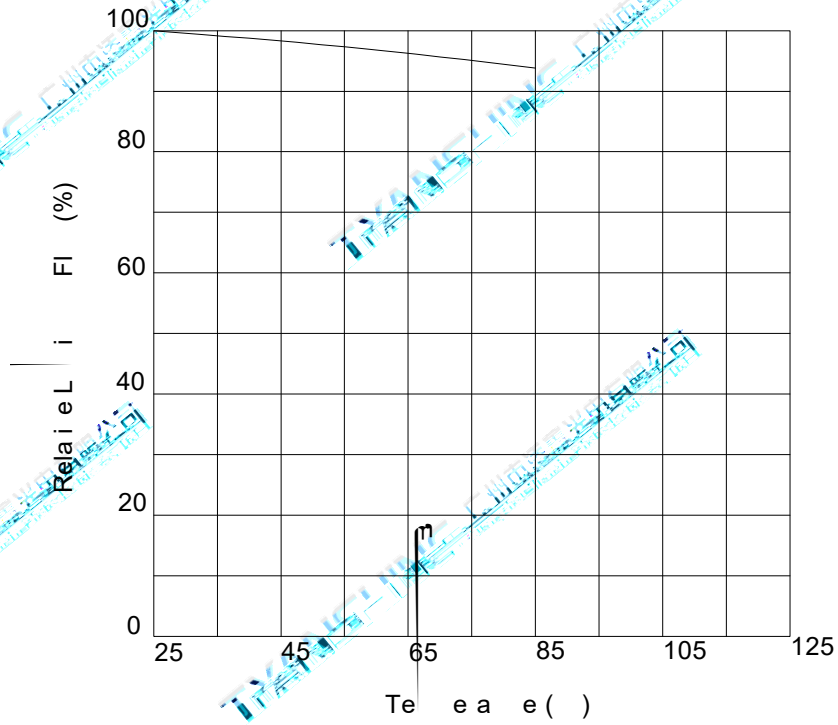
F a d C e VS. L i f l

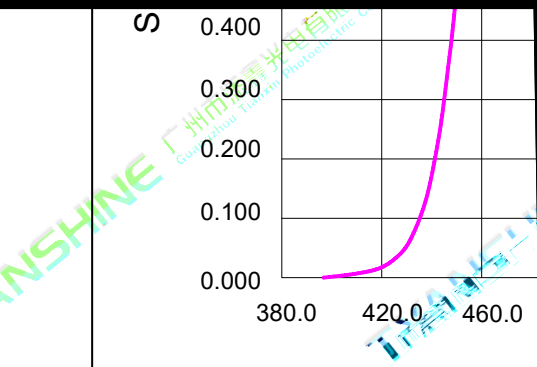


Te e a e VS. F a d V l a g e (IF=1000 A)



Te e a e VS. R e l a i e L i F l (IF=1000 A)





Temperature: 5 30 (41 86 )

Humidity: 60% RH Max.

Use the conditions in the figure.

