



TYANSHINE 广州市添鑫光电有限公司  
Guangzhou Tianxin Photoelectric Co.,Ltd

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Excellent high quality LED chips are made of 2500 A.

High luminous efficiency.

Non-UV.

Excellent thermal stability, all certified and tested in a professional laboratory.

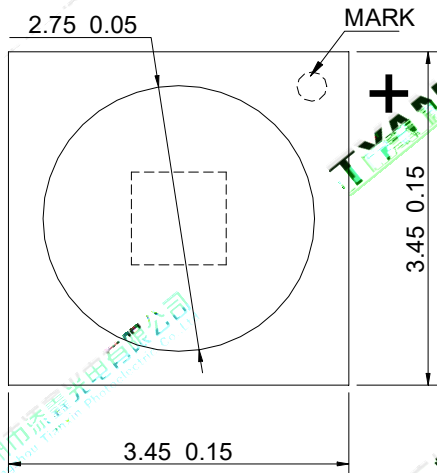
GaN

Blue

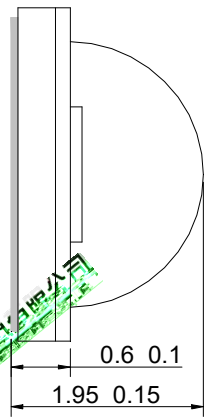
Amalgam lighting

Amalgam lighting

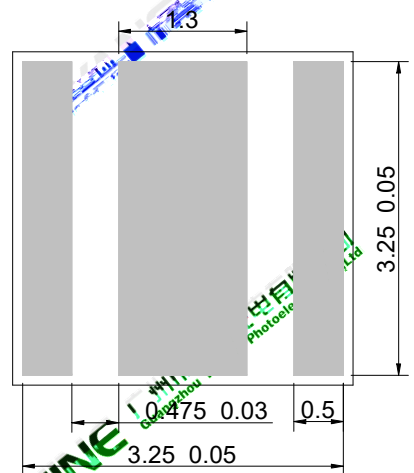
General lighting



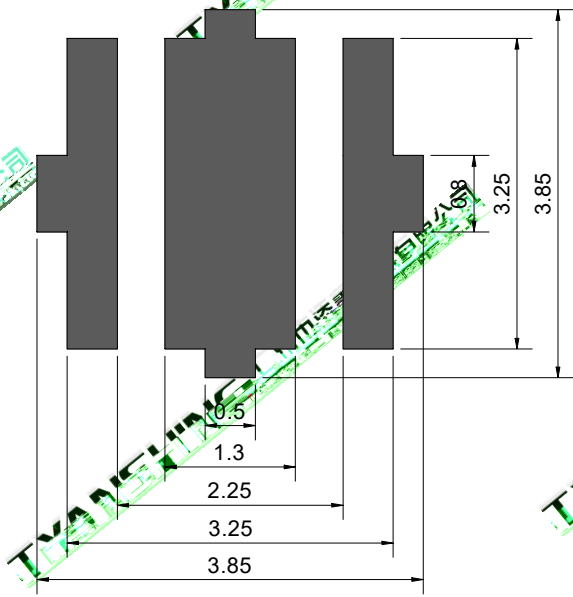
Top view



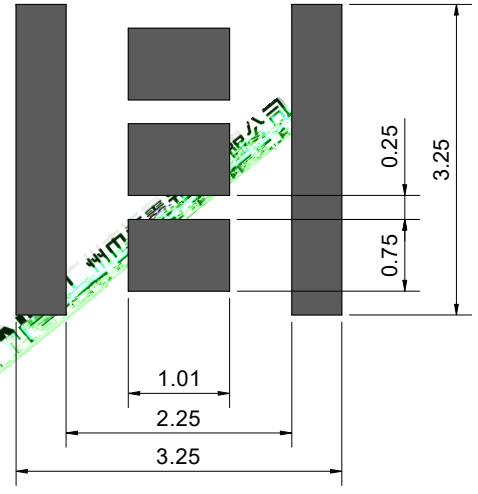
Side view



Bottom view



Recommended lead



Recommended clearance

1. All dimensions are in millimeters.
2. Tolerance shall be indicated as 0.1.

|   |                |                     |   |
|---|----------------|---------------------|---|
|   |                |                     |   |
| Forward Current                         | IF             | 2500                | A |
| Reverse Voltage                         | VR             | Not defined         | V |
| Power Dissipation                       | P <sub>D</sub> | 9.75                | W |
| Junction Temperature                    | T <sub>j</sub> | 150                 |   |
| Electrostatic Discharge Threshold (ESD) | ESD            | ESD level dependent | V |
| Storage Temperature                     | T <sub>g</sub> | -40 +70             |   |
| Operating Temperature                   | T              | -40 +85             |   |

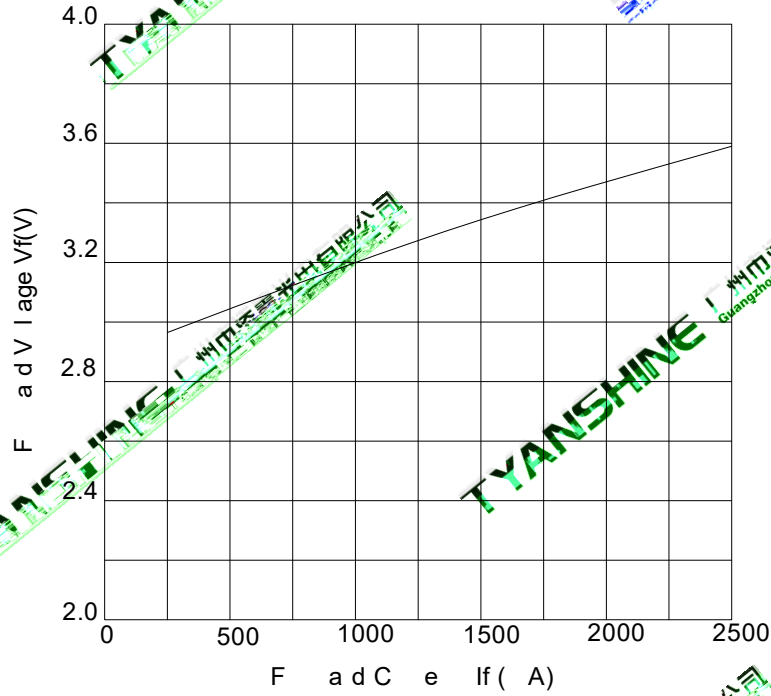
1. Specific area of protection is required.
2. The data sheet specifies the failure rate. The manufacturer's data sheet is the acknowledgment.
3. Protection of ESD:  
STATIC SHIELD Electrostatic discharge protection for LED. It is recommended to use anti-static bags for electrostatic protection of the LED. All devices, especially sensitive devices, should be stored in anti-static bags.

|   |                  |    |     |     |     |     |
|---|------------------|----|-----|-----|-----|-----|
|   |                  |    |     |     |     |     |
| L i F l                                     |                  | B1 | 45  | 50  | 55  | I   |
|   |                  | B2 | 87  | 94  | 100 |     |
| F a d V l a g e                             | V <sub>f</sub>   | B  | 2.8 | 3.2 | 3.6 | V   |
| Vie i g A g l e a 50 I V                    | 2 1/2            | B  |     | 120 |     | Deg |
| Peak E i i Wa e l e g h                     |                  | B1 | 444 | 448 |     |     |
|   |                  | B2 | 461 | 466 | 471 |     |
| D i a Wa e l e g h                          | d                | B1 | 448 | 452 | 456 |     |
|   |                  | B2 | 465 | 470 | 475 |     |
| Vie i g A g l e a 50 I V                    | 2 1/2            | B  | 15  | 19  | 24  |     |
| Re e e C e                                  | I <sub>R</sub>   | B  |     |     |     | A   |
| The a l Re i a c e J c i<br>C a e           | R <sub>J-C</sub> | B  |     | 4.9 |     | K/W |
| Te e a e C e f f i c i e n c y<br>V l a g e | V F/T            | B  |     | -2  |     | V/  |

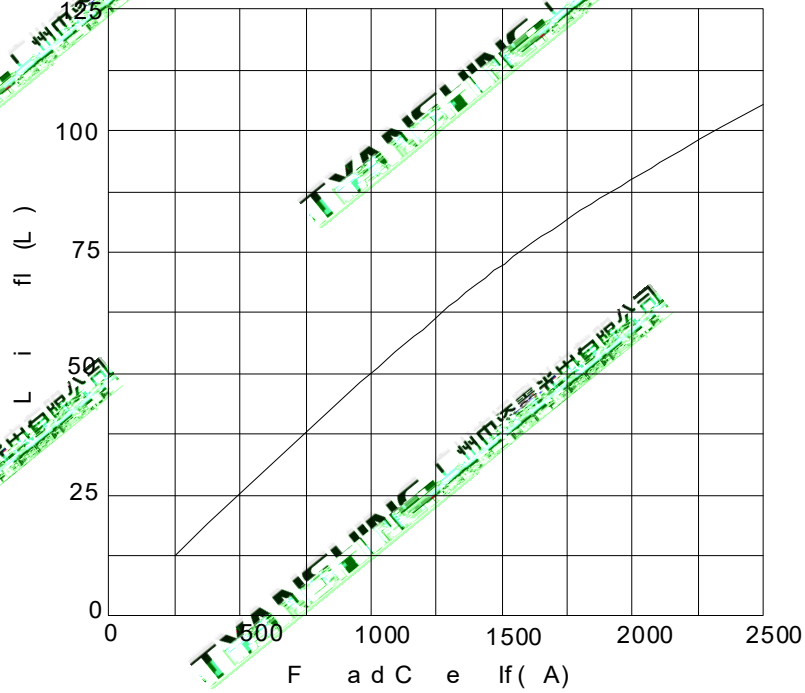
1. L i i e i i e a e d i h a l i g h e a d f i l e c o l o r a i h a a i a e h e C I E e e - e e c e .
2. 1/2 i h e f f - a i a g l e a h i c h h e l i i e i i h a l f h e a i a l l i i e i .
3. L i f l e a e e l e a c e : 15% .
4. F a d l a g e e a e e l e a c e : 0.15V .

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

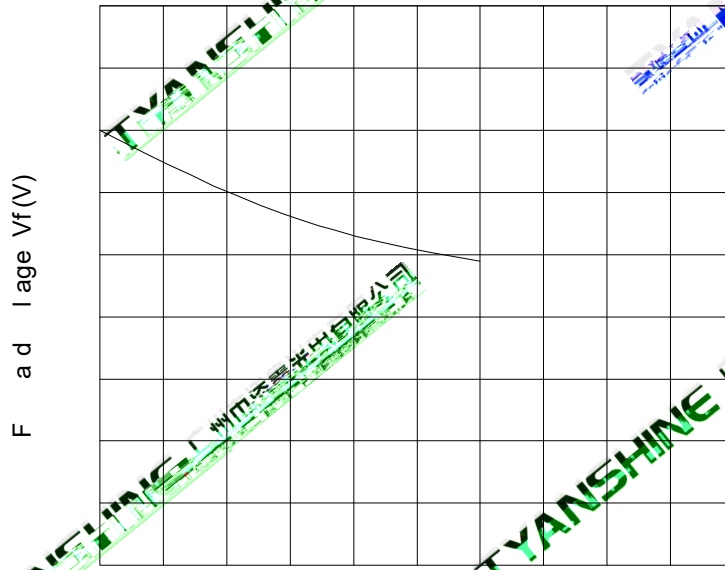
F adC e VS.F adV lage



F adC e VS.L i f

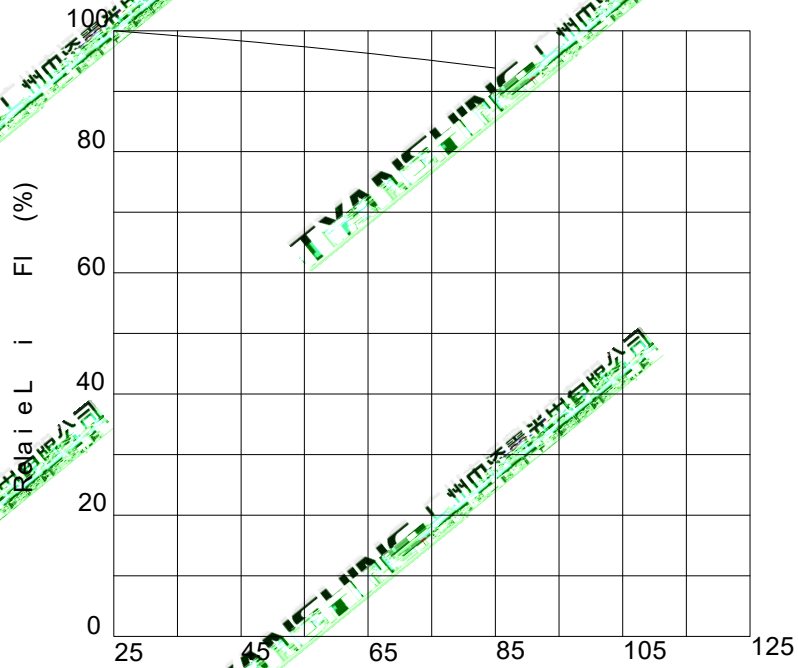


Te e a e VS. F a d V l a g e (IF=1000 A)



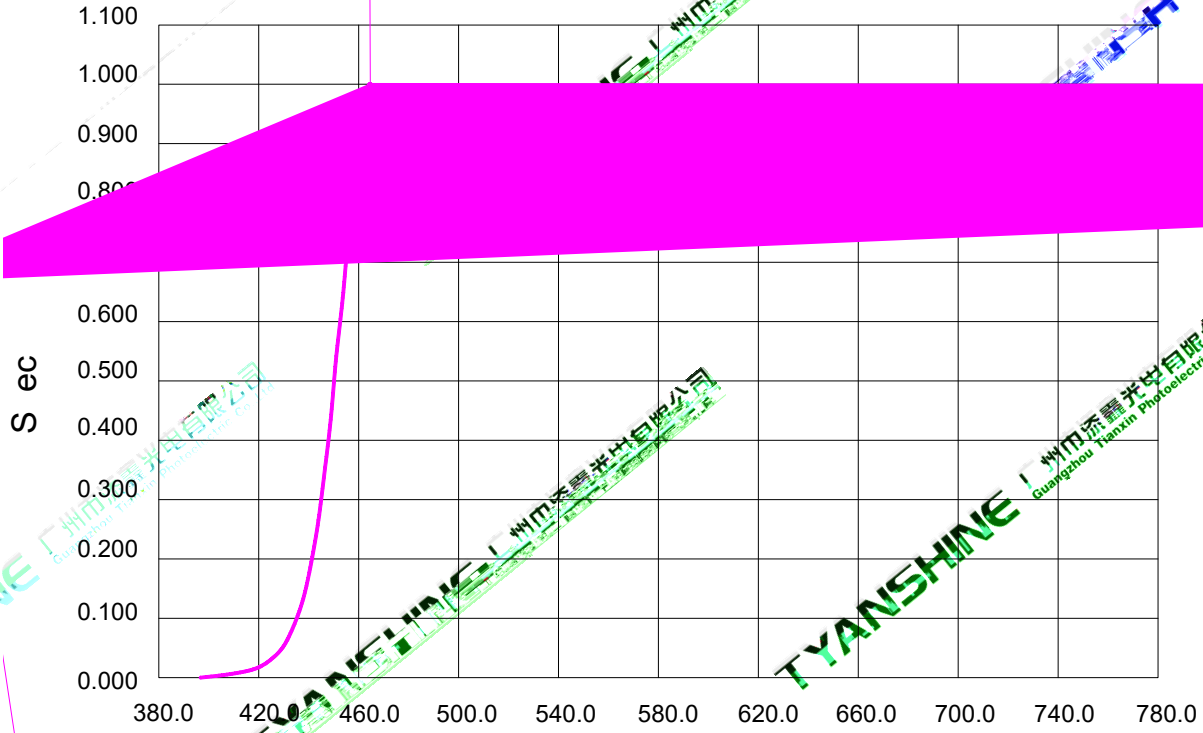
T e e a e ( )

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



T e e a e ( )

Relative Spectral Distribution



Temperature: 5 30 (41 86 )

Humidity: 60% RH Max.

Use the conditions in the figure.

