TX-3535P3FC120-OGHCNA72-03F

PRODUCT SPECIFICATION

Features:

◆Excellent transiting heat from LED chip operating under 500mA.

◆High luminous output.

◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

◆GaN

Emitting Color:

◆ Purple

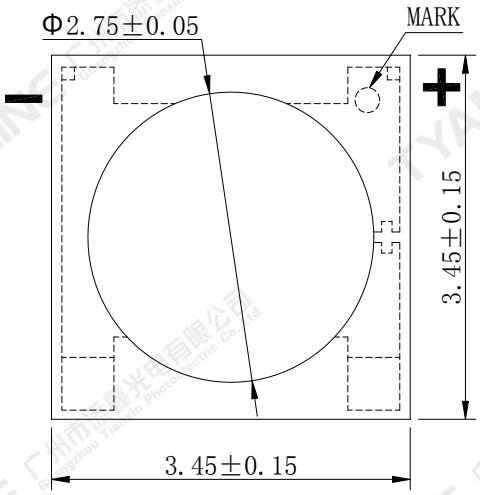
Applications:

◆Printing

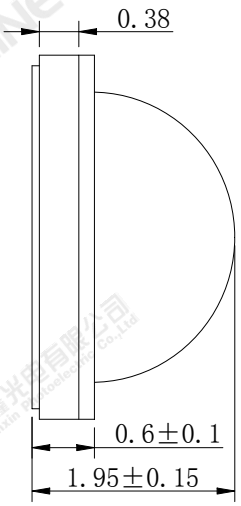
◆Curing

◆PCB exposure

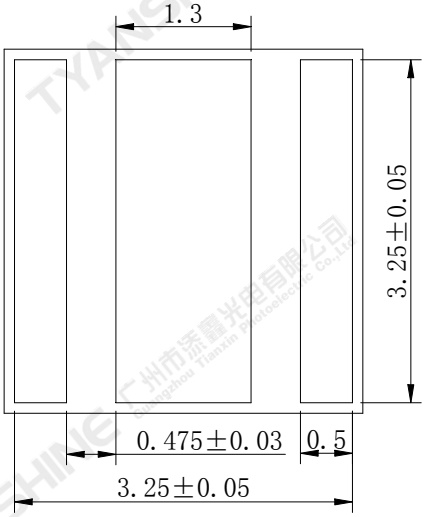
Package Dimensions:



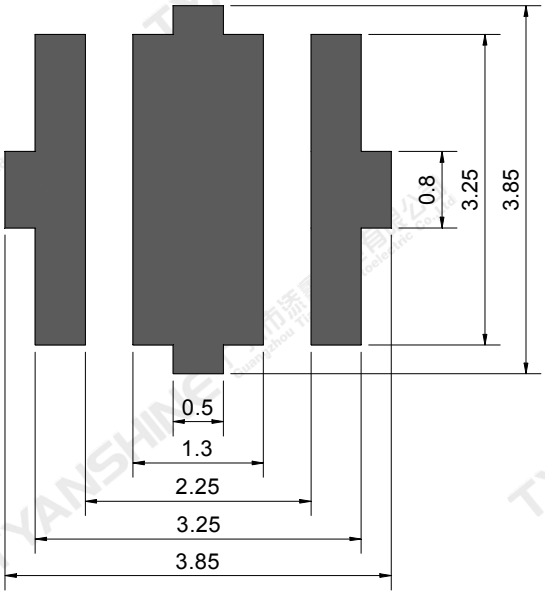
Top view



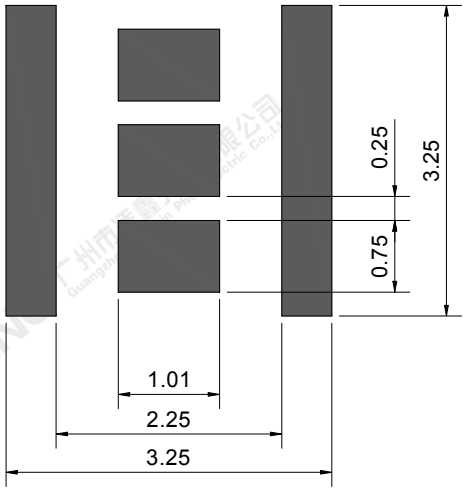
Side view



Bottom view



Recommended solder pad



Recommended stencil pattern

Notes:

1.All dimensions are in millimeters .

2.Tolerances unless otherwise mentioned are ±0.1mm .

Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol	Ratings	Unit
Forward Current	IF	500	mA
Reverse Voltage	V_R	7	V
Power Dissipation	P_D	1900	mW
Junction Temperature	Tj	150	℃
Electrostatic Discharge Threshold (ESD)	ESD	ESD sensitive device	V
Storage Temperature	T_{stg}	-40~+70	℃
Operation Temperature	T_{opr}	-30~+100	

Notes:

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.

Electrical Optical Characteristics (Tc=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Luminous Flux	φ_v	If=350mA	1.10	1.65	—	lm
Radiant Flux	Φe		470	510	—	mW
Peak Emission Wavelength	λp		390	395	400	nm
Dominant Wavelength	λd		425	430	435	nm
Spectral Line Half-Width	△λ		20	25	30	nm
Forward Voltage	V_f		3.2	3.4	3.6	V
Viewing Angle at 50％IV	$2\theta_{1/2}$	—	—	120	—	Deg
Reverse Current	I_R	—	—	—	5	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	If=350mA	—	8.6	—	K/W
Temperature Coefficient of Voltage	V△F/T		—	-2	—	mV/℃

Notes:

1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

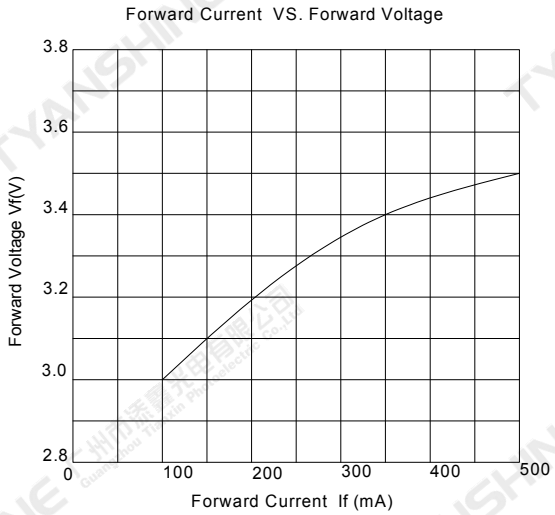
2.$\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

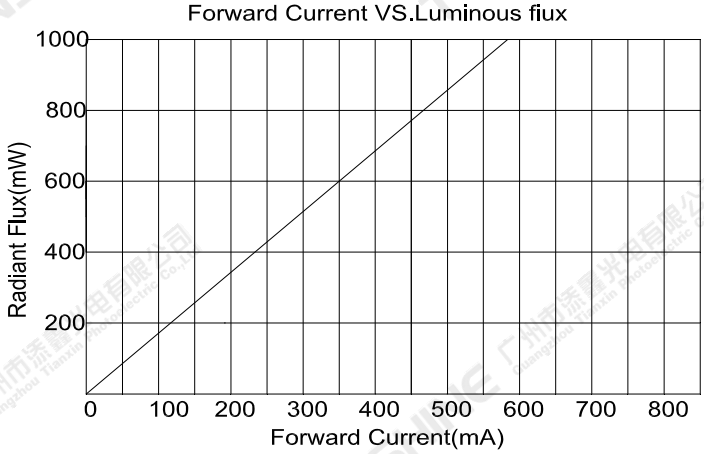
3.Luminous flux measurement tolerance:±15%.

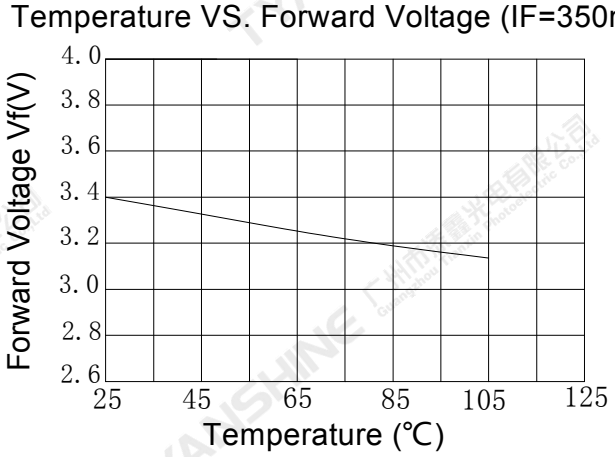
4.Forward voltage measurement tolerance:±0.15V.

Typical Electrical/Optical Characteristics Curves

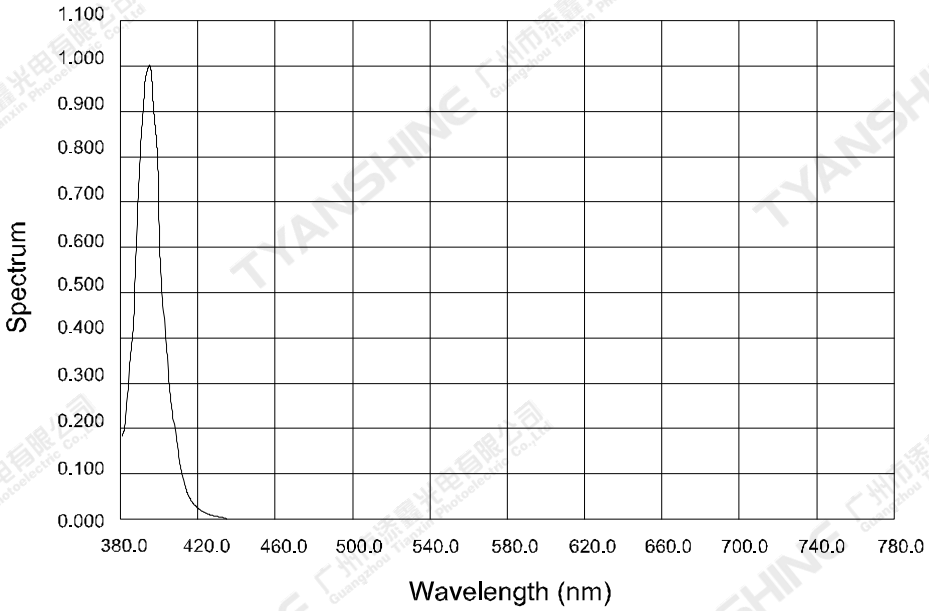
(25℃ Ambient Temperature Unless Otherwise Noted)



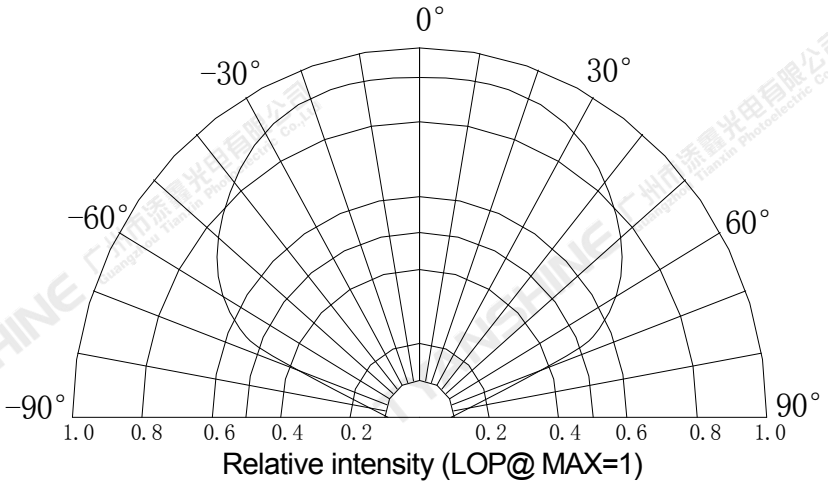




Relative Spectral Distribution



Beam Pattern



Notes:

1. 2θ 1/2 is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.
2. View angle tolerance is ± 5°.

Usage Precautions

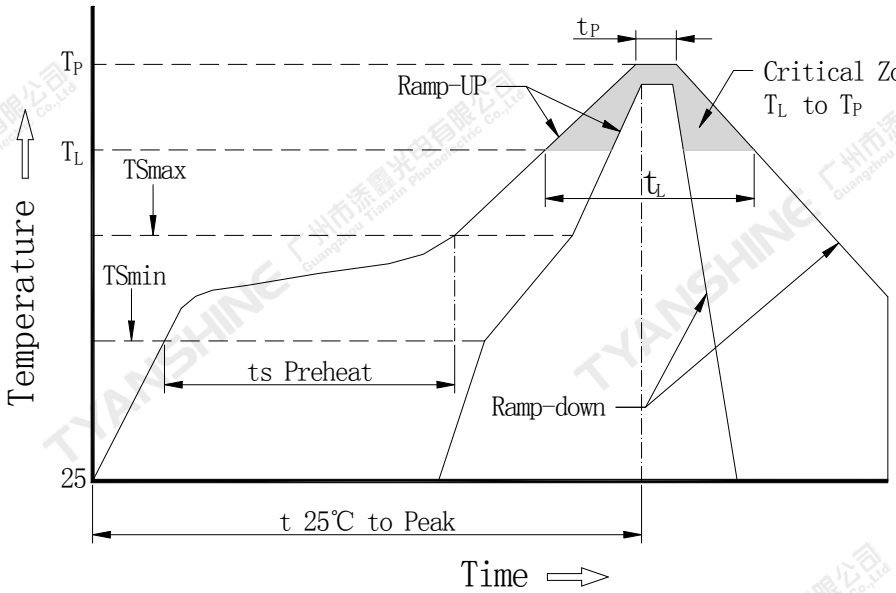
Storage Environment Condition

Temperature: 5℃ ~ 30℃ (41℉ ~ 86℉)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown to the under figure.



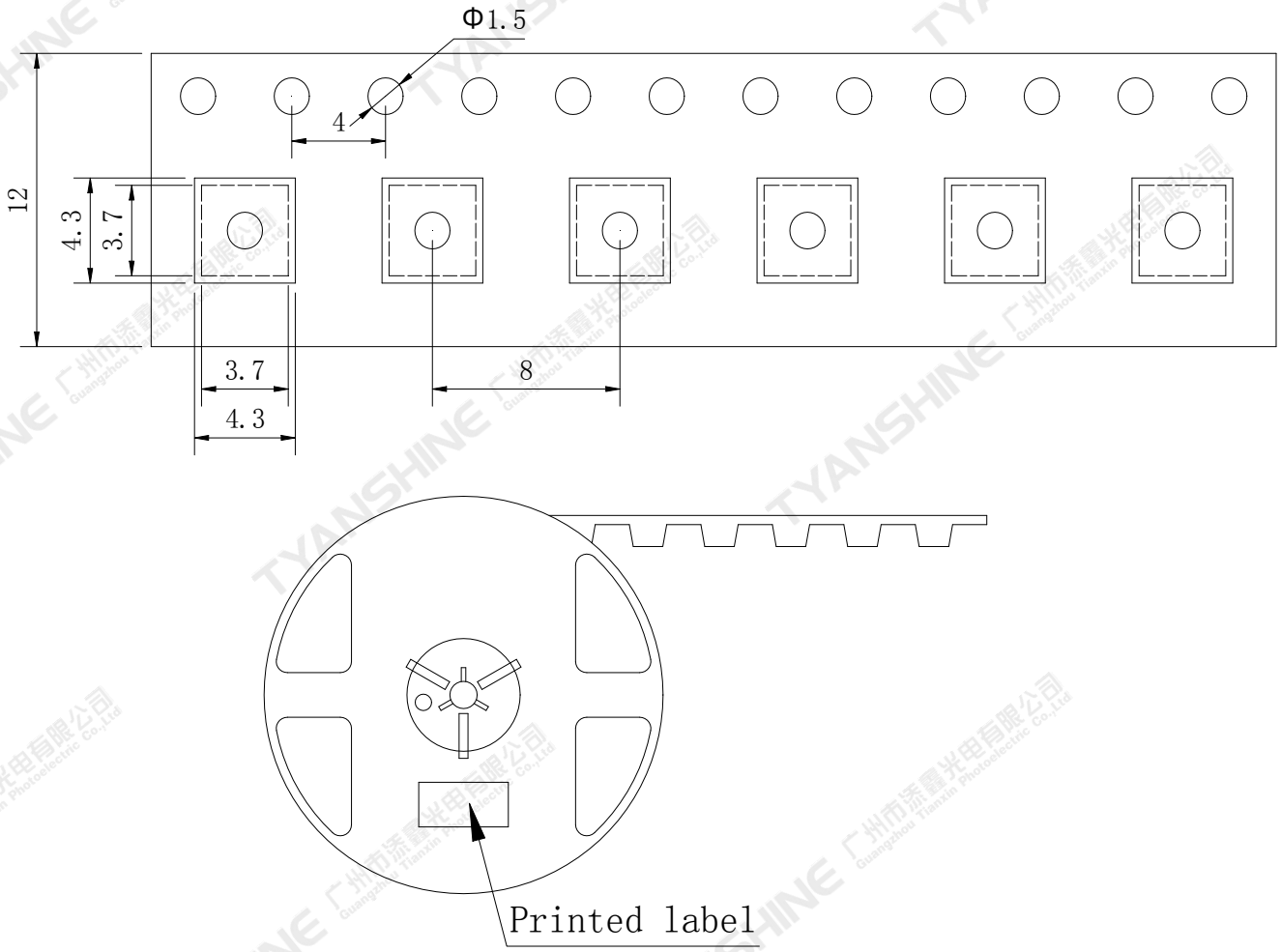
Profile Feature	Lead-Based Solder
Average Ramp-Up Rate (Ts_{max} to T_p)	3℃/second max.
Preheat: Temperature Min (Ts_{min})	100℃
Preheat: Temperature Max (Ts_{max})	150℃
Preheat: Time (Ts_{min} to Ts_{max})	60-120 seconds
Time Maintained Above: Temperature (T_L)	183℃
Time Maintained Above: Time (T_L)	60-150 seconds
Peak/Classification Temperature (T_P)	225℃
Time Within 5℃ of Actual Peak Temperature (T_P)	10-30 seconds
Ramp-Down Rate	6℃/second max.
Time 25℃ to Peak Temperature	6 minutes max.

Note:

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

Dimensions For Cannulation And Packaging

Quantity:1000 PCS



Notes:

1. All dimensions are in millimeters.
2. Tolerances are ±2.0 mm unless otherwise noted.
3. The products are packaged together with silica gel, Transport, not to the weight of welding LED light-emitting area, As a result of the weight of LED light-emitting zone in the quality of, Irre sponsible of the Company.