TX-3535RGB4FC120-OGVCND34-02

PRODUCT SPECIFICATION

Features:

◆Excellent transiting heat from LED chip operating under 350mA

◆High luminous output

◆No UV

Chip Material:

◆Red: AlGaInP

◆Green: GaN

◆Blue: GaN

Lens Color:

◆Water clear

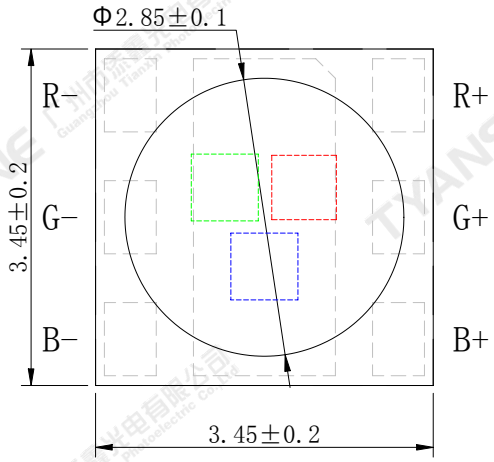
Applications:

◆Stage lighting

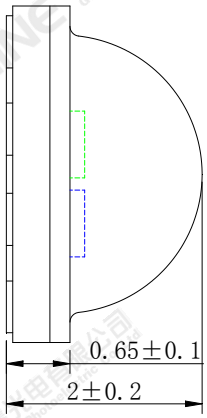
◆Garden lighting

◆Landscape Lighting

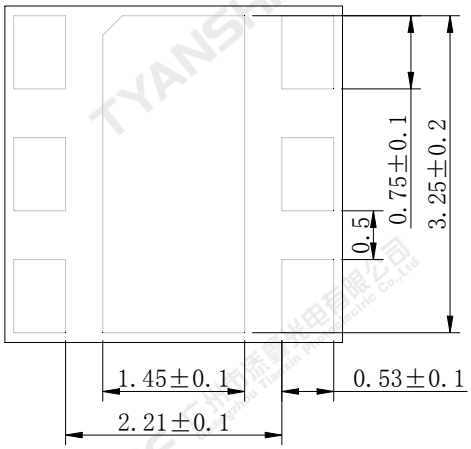
Package Dimensions:



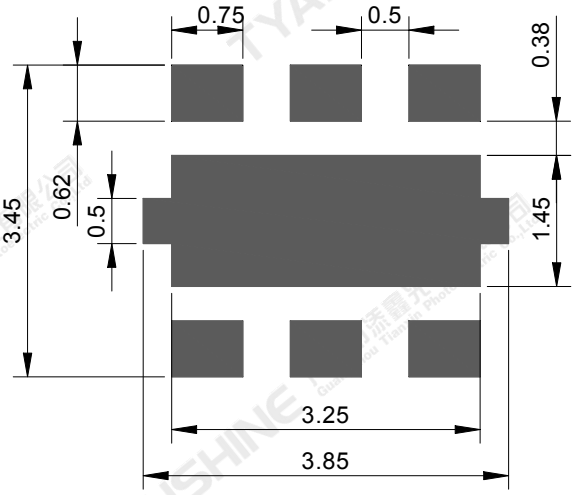
Top view



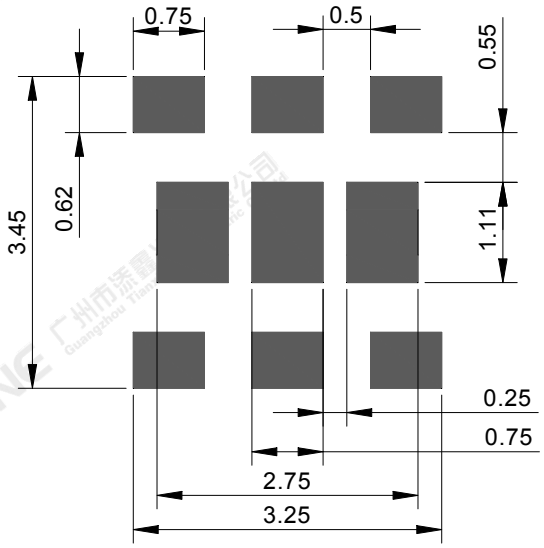
Side view



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		Max Ratings	Unit
Forward Current	IF		400	mA
Reverse Voltage	V_R		5	V
Power Dissipation	P_D	R	875	mW
		G	1225	
		B	1225	
Junction Temperature	Tj	R	115	℃
		G	150	
		B	150	
Electrostatic Discharge Threshold (ESD)	ESD		2000	V
Storage Temperature	T_{stg}		-40~70	℃
Operation Temperature	T_{opr}		-40~100	

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 (Ta=25°C)

Parameter	Symbol	Condition	Emitting Color	Min.	Typ.	Max.	Units
Luminous Flux	φ_v	If=350mA	R	45	55	65	lm
			G	90	105	120	
			B	15	26	38	
Dominant Wavelength	λd		R	618	620	628	nm
			G	518	523	528	
			B	452	464	476	
Peak-emission Wavelength	λp		R	628	630	638	nm
			G	513	518	523	
			B	447	459	471	
Spectral Line Half-Width	△λ		R	10	15	20	nm
			G	19	24	29	
			B	30	35	40	
Forward Voltage	V_f		R	2.0	2.2	2.5	V
			G	2.9	3.1	3.5	
			B	2.9	3.0	3.5	
Reverse Current	I_R	V_R=7V	R	—	—	5	μA
			G	—	—	5	
			B	—	—	5	
Viewing Angle at 50％IV	$2\theta_{1/2}$	—	—	—	120	—	Deg
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	R	—	14	—	K/W
			G	—	14	—	
			B	—	14	—	
			Total thermal resistance	—	6.5	—	
Temperature Coefficient of Voltage	V△F/T	If=350mA	R	—	-1.3	—	mV/℃
			G	—	-3.2	—	
			B	—	-3.1	—	

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.

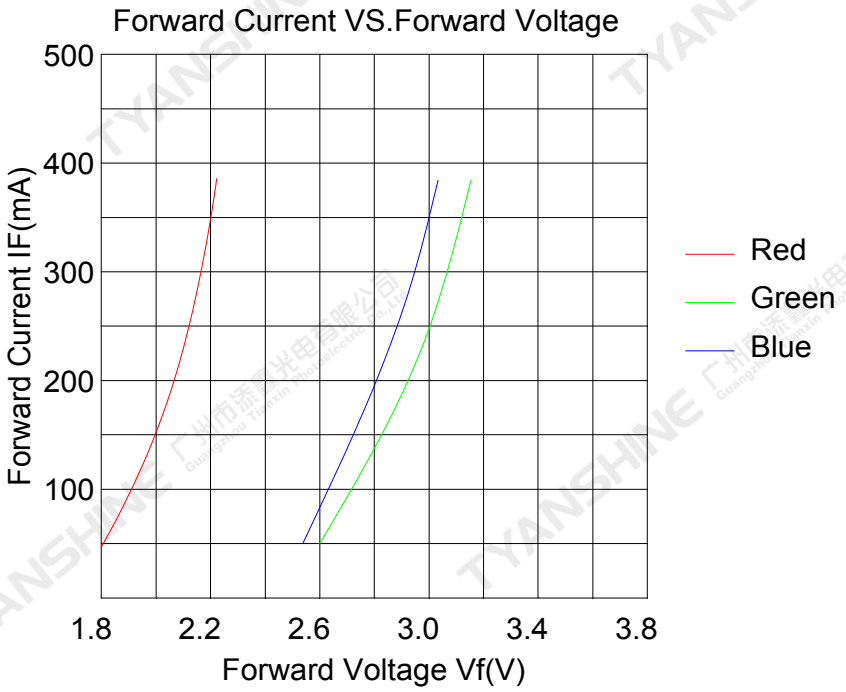
3.The dominant wavelength (λd) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

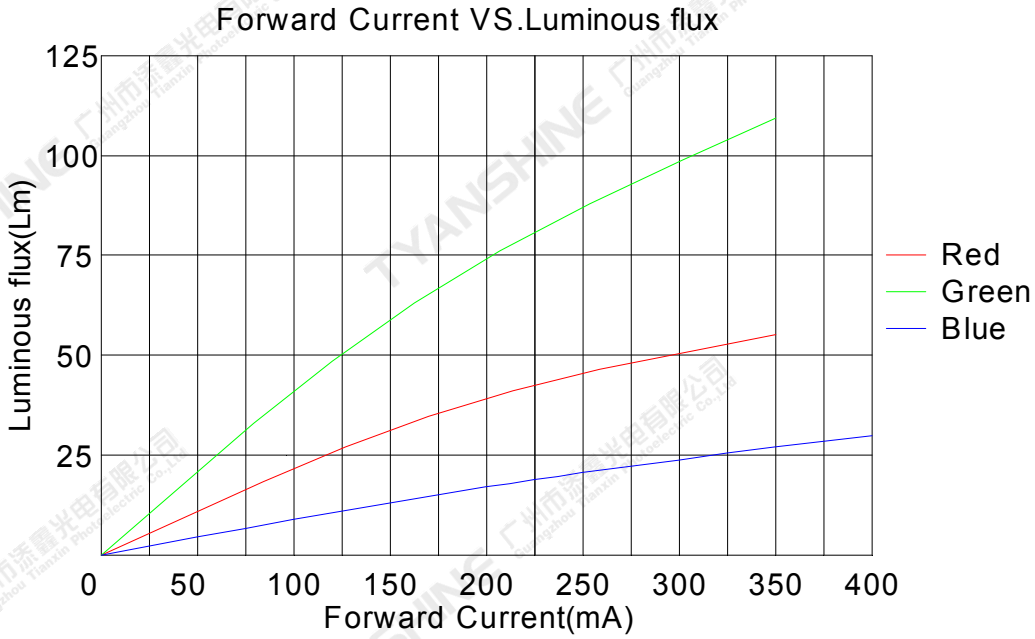
4.Luminous flux measurement tolerance:±15%.

5.Forward voltage measurement tolerance:±0.15V.

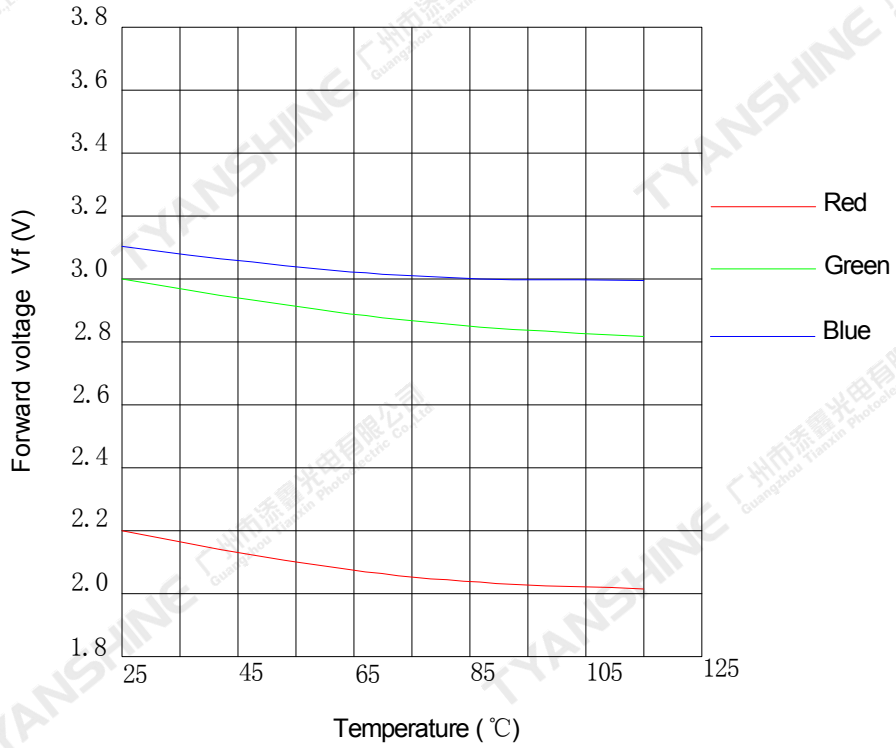
Typical Electrical/Optical Characteristics Curves

(25℃ Ambient Temperature Unless Otherwise Noted)

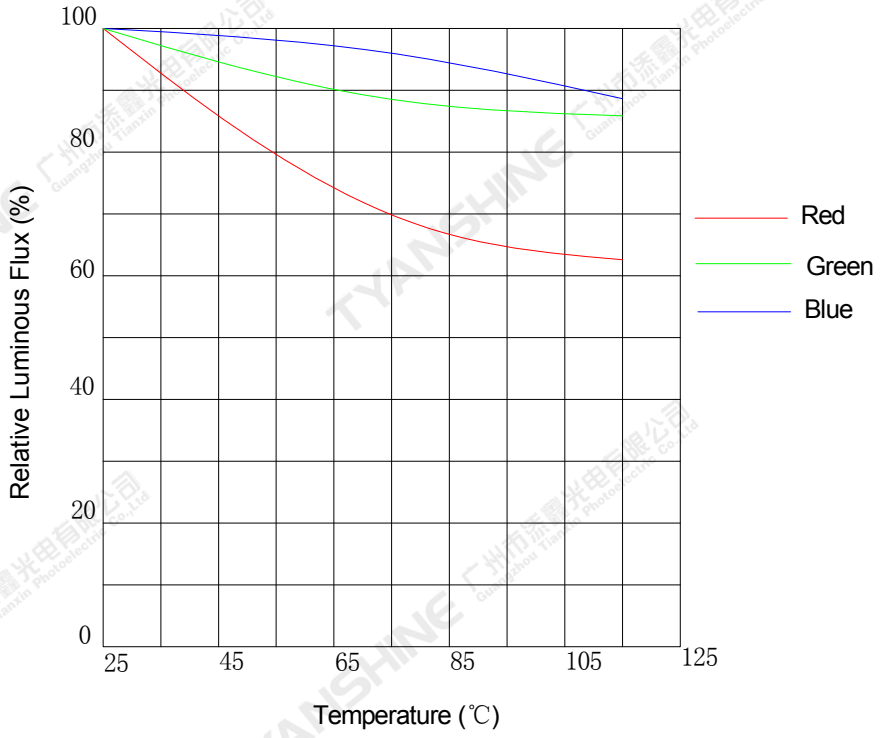




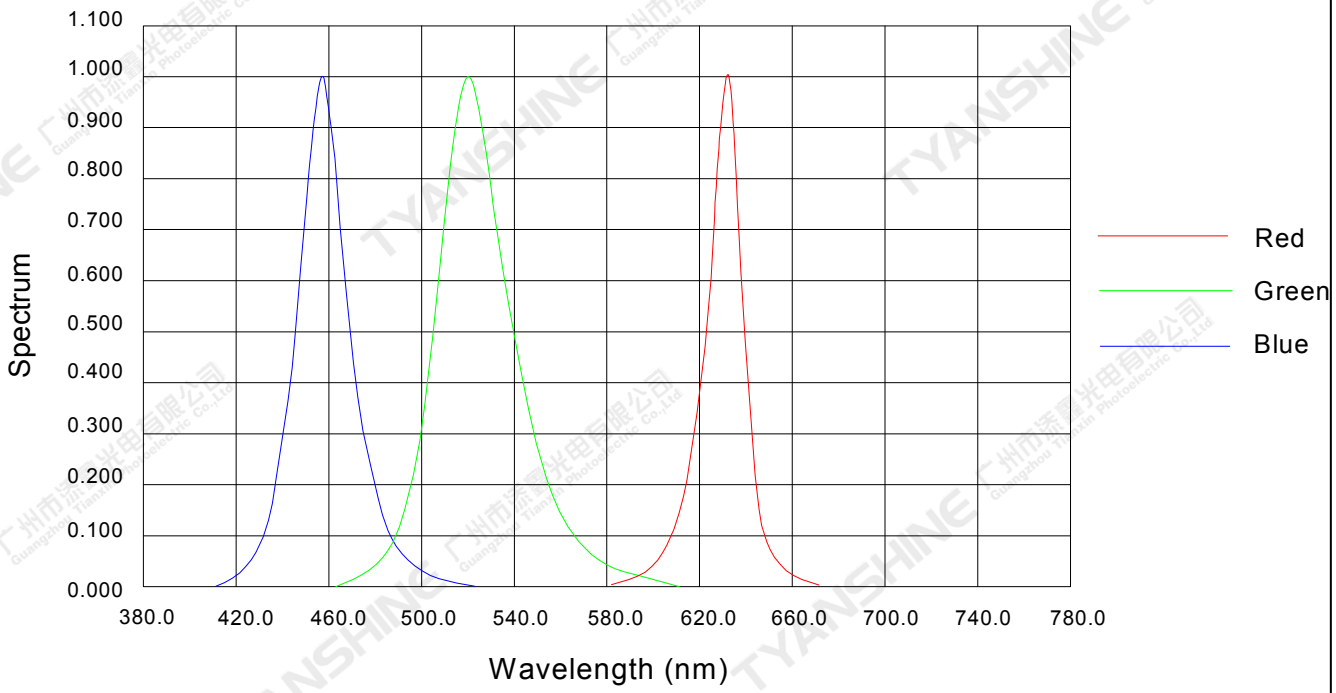
Temperature VS. Forward Voltage (IF=350mA)



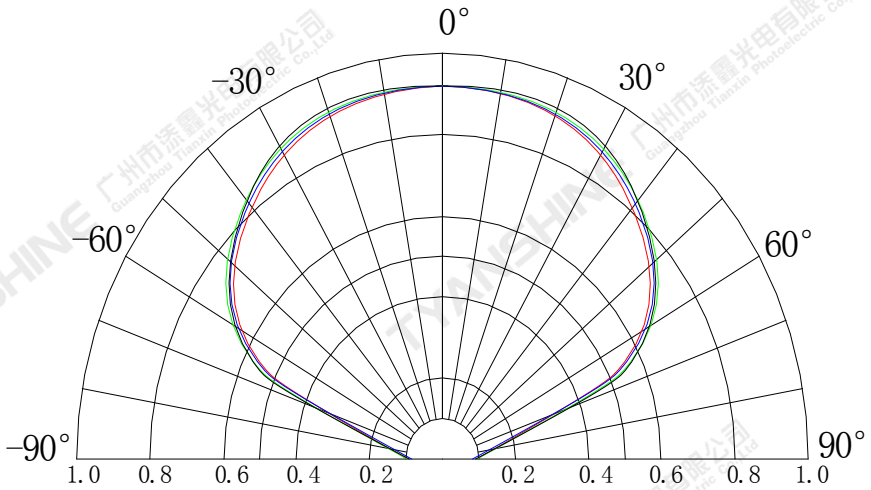
Temperature VS. Relative Luminous Flux (IF=350mA)



Relative Spectral Distribution



Beam Pattern



Relative intensity (LOP@ MAX=1)

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

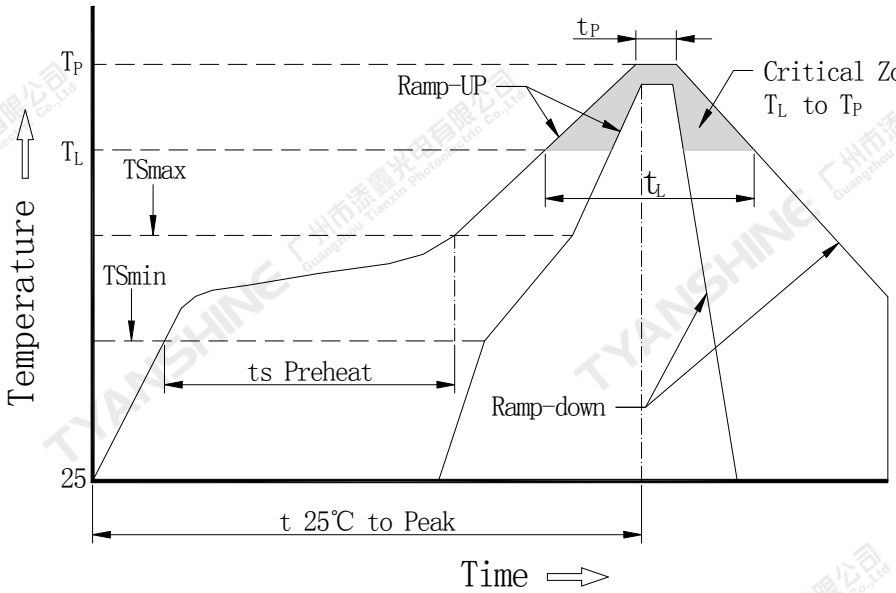
Storage Environment Condition

Temperature: 5℃ ~ 30℃ (41℉ ~ 86℉)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown to the under figure.



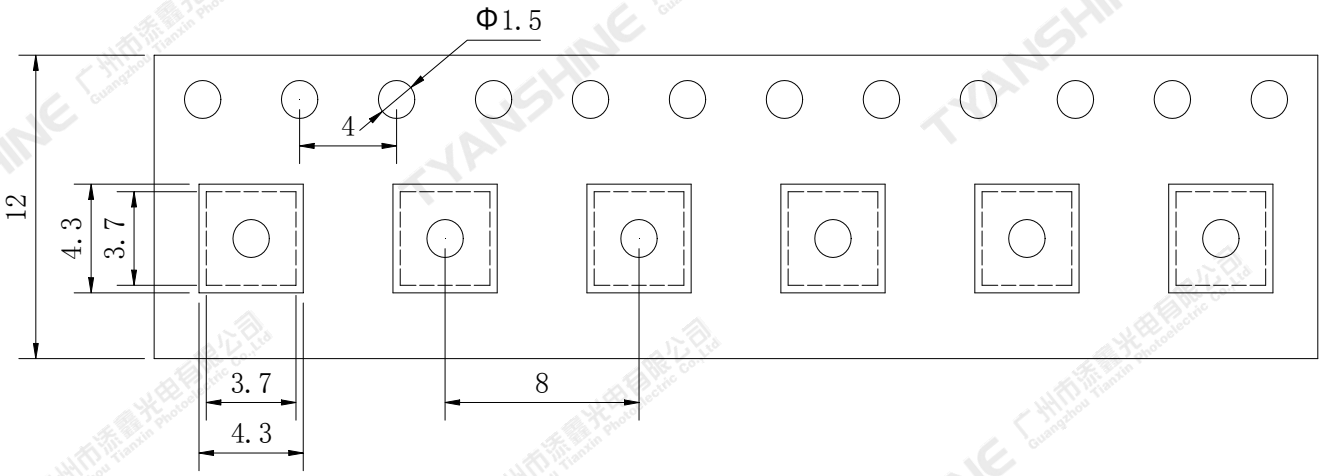
Profile Feature	Lead-Based Solder
Average Ramp-Up Rate (Ts_{max} to T_p)	3℃/second max.
Preheat: Temperature Min (Ts_{min})	100℃
Preheat: Temperature Max (Ts_{max})	150℃
Preheat: Time (Ts_{min} to Ts_{max})	60-120 seconds
Time Maintained Above: Temperature (T_L)	183℃
Time Maintained Above: Time (T_L)	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.

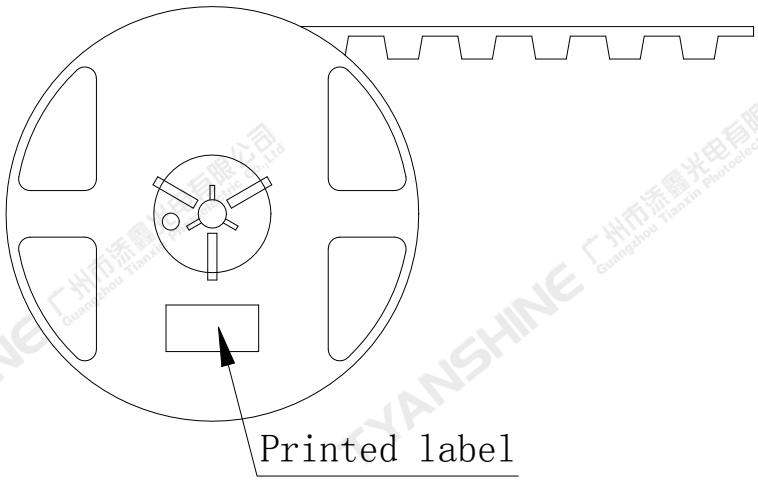
Note:

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

Dimensions For Cannulation And Packaging

Quantity: 1000PCS





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, Irresponsible of the Company.