

TX-3535WA2FC120-OGVCND34-03CH80

PRODUCT SPECIFICATION

Features:

- ◆ Excellent transiting heat from LED chip operating under 300mA.
- ◆ High luminous output.
- ◆ No UV.
- ◆ Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆ GaN
- ◆ GaN

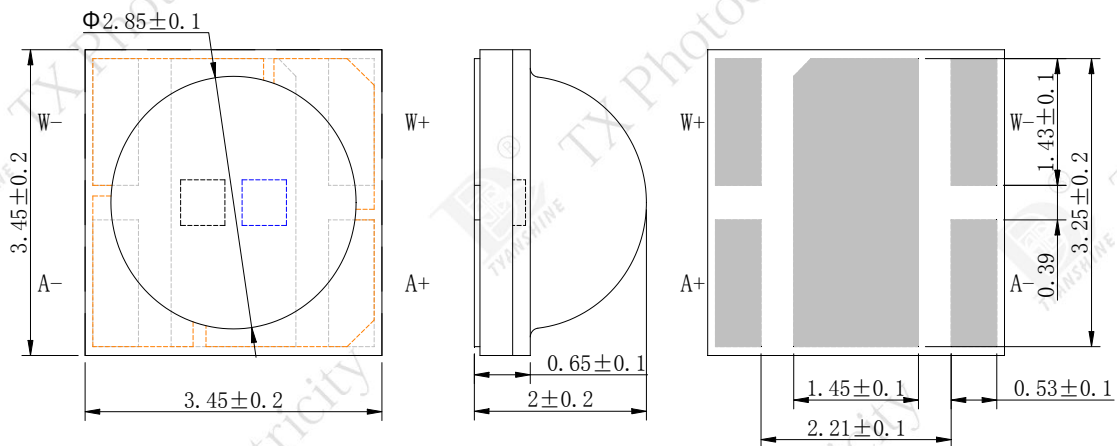
Emitting Color:

- ◆ white
- ◆ PC Amber

Applications:

- ◆ Auxiliary lighting
- ◆ Architectural lighting
- ◆ General Lighting

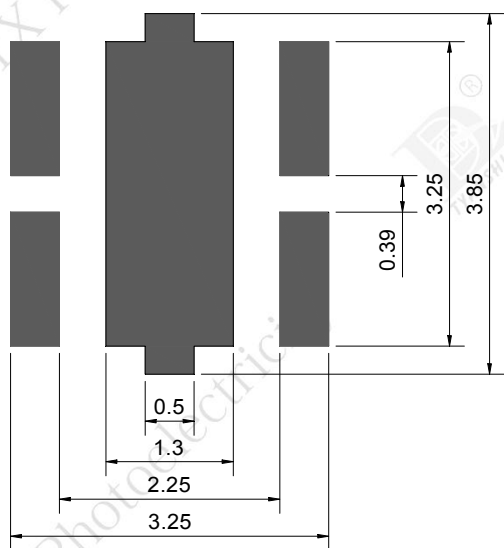
Package Dimensions:



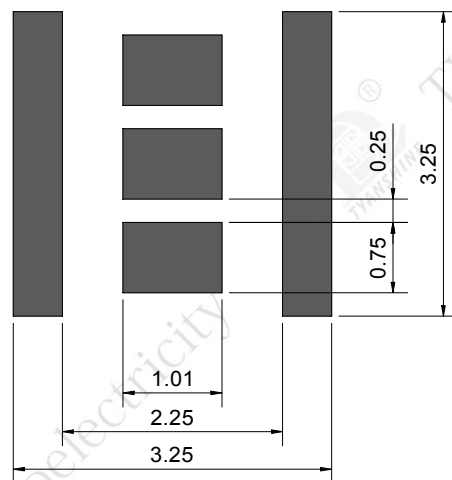
Top view

Side view

Bottom view



Recommended solder pad



Recommended stencil pattern

Notes:

1. All dimensions are in millimeters .
2. Tolerances unless otherwise mentioned are ± 0.1 mm .

Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbol	Ratings	Unit
Forward Current	IF	350	mA
Reverse Voltage	V _R	Not designed for reverse operation	V
Power Dissipation	P _D	W	1225
		A	1225
Junction Temperature	T _j	150	°C
Electrostatic Discharge Threshold (ESD)	ESD	ESD sensitive device	V
Storage Temperature	T _{stg}	-20~+70	°C
Operation Temperature	T _{opr}	-40~+100	

Notes:

- Specifications are subject to change without notice.
- Under the stipulated Characteristics parameters above, the life span of the LED is more than 50,000hours.
- The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.
- 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	Emitting Color	Min.	Typ.	Max.	Units
Luminous Flux	ϕ_v	If=300mA	W	65	75	85	lm
			A	27	35	45	
Correlated Colour Temperature	CCT		W	5000	5700	6500	K
			A	1750	1900	2050	
Peak Emission Wavelength	λ_p		A	590	593	596	nm
Dominant Wavelength	λ_d		A	585	588	591	nm
Forward Voltage	V_f		W	3.0	3.3	3.5	V
			A	3.0	3.3	3.5	
Viewing Angle at 50% IV	$2\theta_{1/2}$		—	—	120	—	Deg
Reverse Current	I_R		—	—	—	—	2.0
Thermal Resistance Junction to Case	$R_{\theta_{J-C}}$	—	—	—	14.6	—	K/W
Temperature Coefficient of Voltage	$V_{\Delta F/T}$	—	—	—	-2	—	mV/°C
Color Rendering Index	Ra	—	—	80	82.5	85	—

White light Color coordinate filing

Region	CCT Range		X1	Y1	X2	Y2	X3	Y3	X4	Y4
	Min	Max								
1T	6000	6500	0.3099	0.3509	0.3196	0.3602	0.3205	0.3481	0.3115	0.3391
1C			0.3115	0.3391	0.3205	0.3481	0.3213	0.3373	0.3130	0.3290
1D			0.3130	0.3290	0.3213	0.3373	0.3221	0.3261	0.3144	0.3186
1U			0.3144	0.3186	0.3221	0.3261	0.3231	0.3120	0.3161	0.3159
2S	5700	6000	0.3196	0.3602	0.3290	0.3690	0.3290	0.3538	0.3207	0.3462
2B			0.3207	0.3462	0.3290	0.3538	0.3290	0.3417	0.3215	0.3350
2A			0.3215	0.3350	0.3290	0.3417	0.3290	0.3300	0.3222	0.3243
2R			0.3222	0.3243	0.3290	0.3300	0.3290	0.3180	0.3231	0.3120
2T	5300	5700	0.3290	0.3690	0.3381	0.3762	0.3376	0.3616	0.3290	0.3538
2C			0.3290	0.3538	0.3376	0.3616	0.3371	0.3490	0.3290	0.3417
2D			0.3290	0.3417	0.3371	0.3490	0.3366	0.3369	0.3290	0.3300
2U	5300	5700	0.3290	0.3300	0.3366	0.3369	0.3361	0.3245	0.3290	0.3180
3S	5000	5300	0.3381	0.3762	0.3480	0.3840	0.3463	0.3687	0.3376	0.3616
3B			0.3376	0.3616	0.3463	0.3687	0.3451	0.3554	0.3371	0.3490
3A			0.3371	0.3490	0.3451	0.3554	0.3440	0.3427	0.3366	0.3369
3R			0.3366	0.3369	0.3440	0.3428	0.3429	0.3307	0.3361	0.3245
W	1800	1900	0.5581	0.4376	0.5508	0.4340	0.5690	0.4284	0.5598	0.4258
W1	1900	2050	0.5472	0.4373	0.5412	0.4349	0.5481	0.4257	0.55697	0.4283
W2	1950	2050	0.5443	0.4402	0.5512	0.4447	0.5581	0.4376	0.5508	0.434
W3	1750	1800	0.4572	0.4191	0.5598	0.4258	0.569	0.4284	0.5766	0.4219

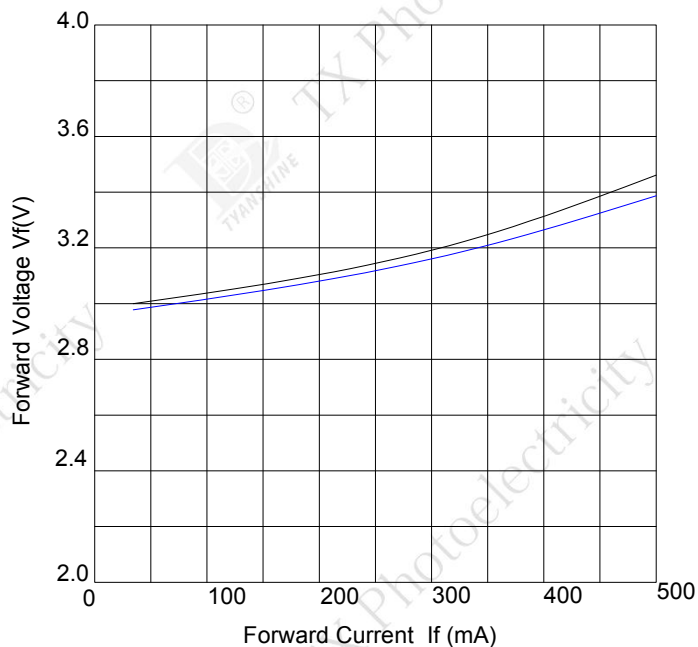
Notes:

- 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: $\pm 15\%$.
- 4.Forward voltage measurement tolerance: $\pm 0.15V$.

Typical Electrical/Optical Characteristics Curves

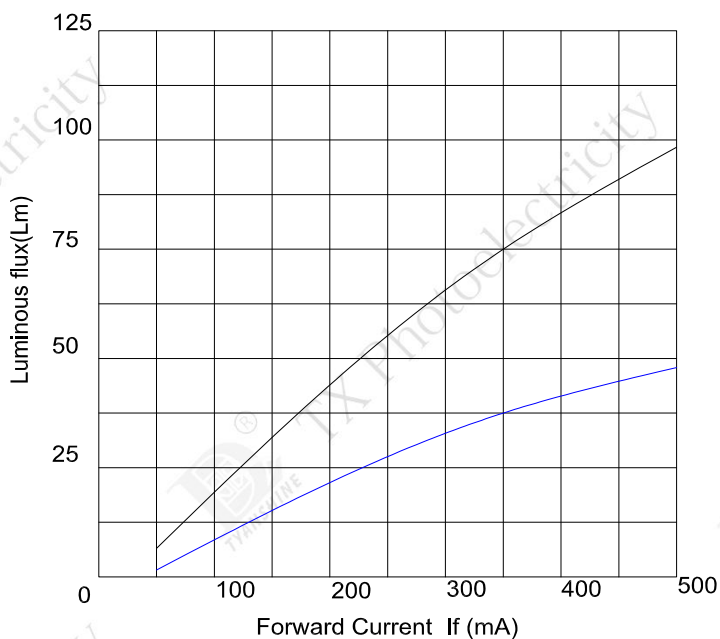
(25°C Ambient Temperature Unless Otherwise Noted)

Forward Current VS. Forward Voltage

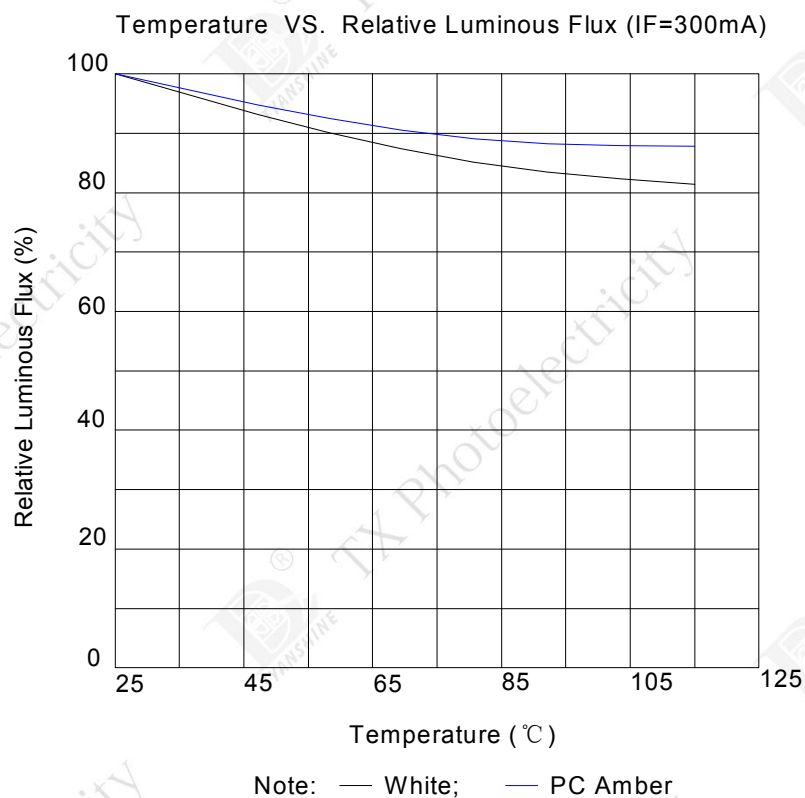
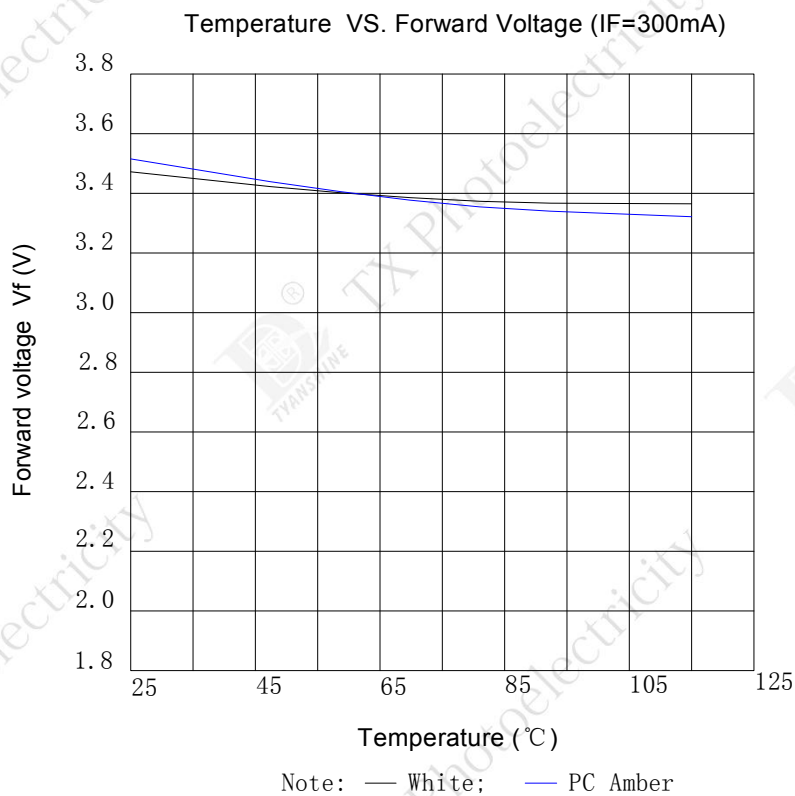


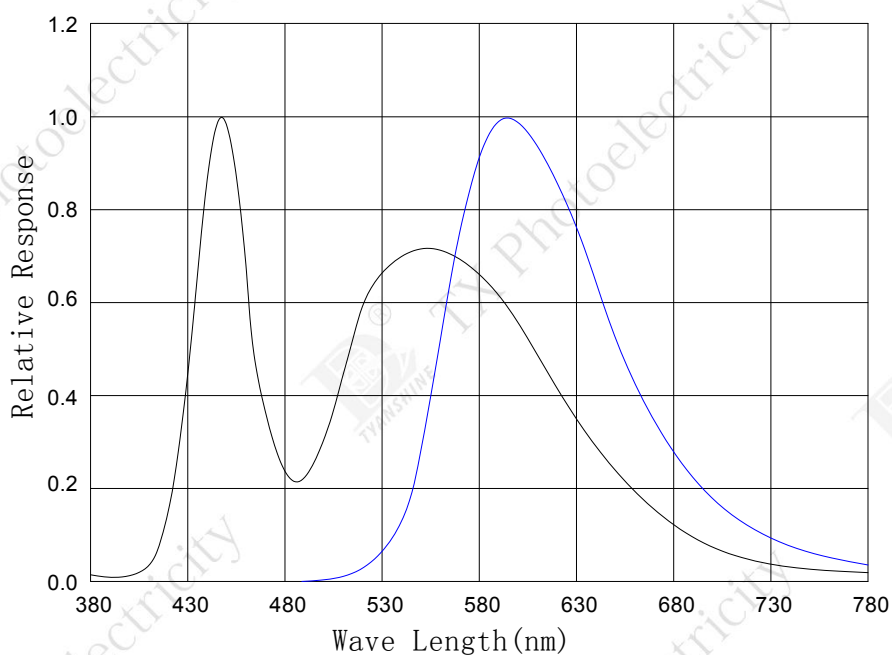
Note: — White; — PC Amber

Forward Current VS.Luminous flux

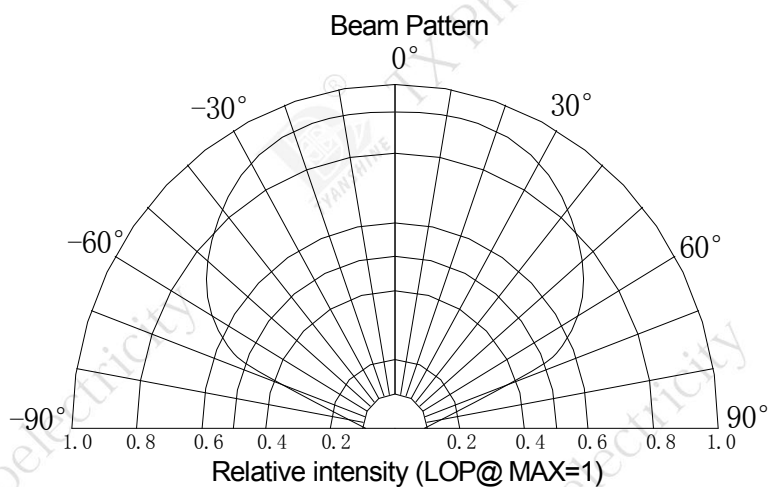


Note: — White; — PC Amber





Note: — White; — PC Amber



Notes:

1. $2\theta_{1/2}$ is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.
2. View angle tolerance is $\pm 5^\circ$.

Usage Precautions

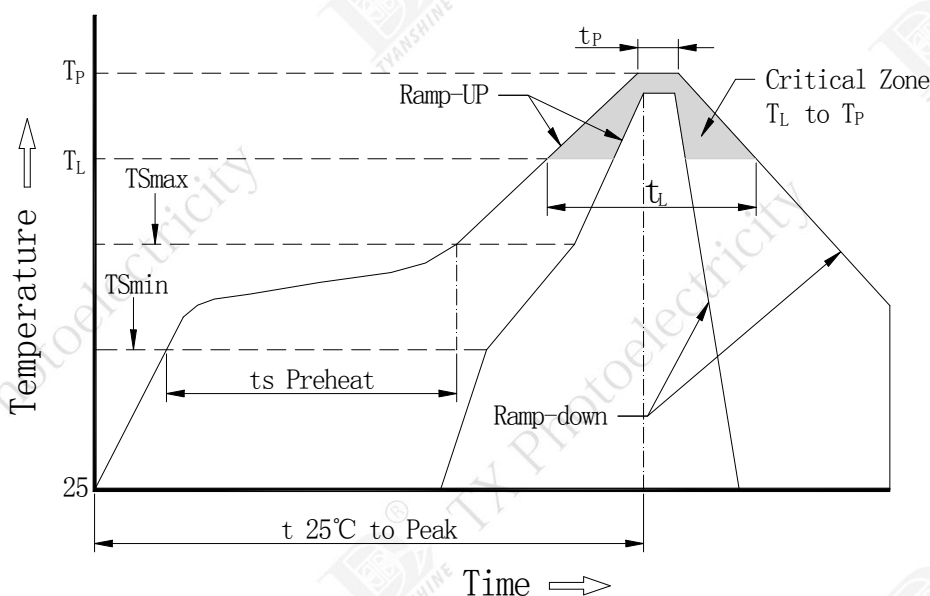
Storage Environment Condition

Temperature: 5°C ~ 30°C (41°F ~ 86°F)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown in the figure below.



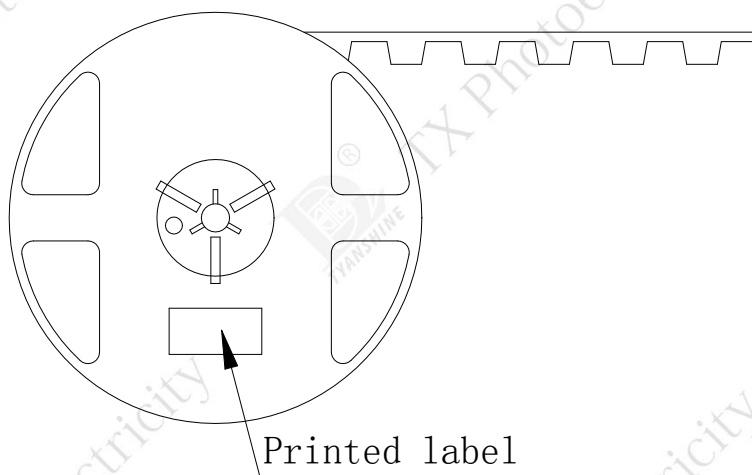
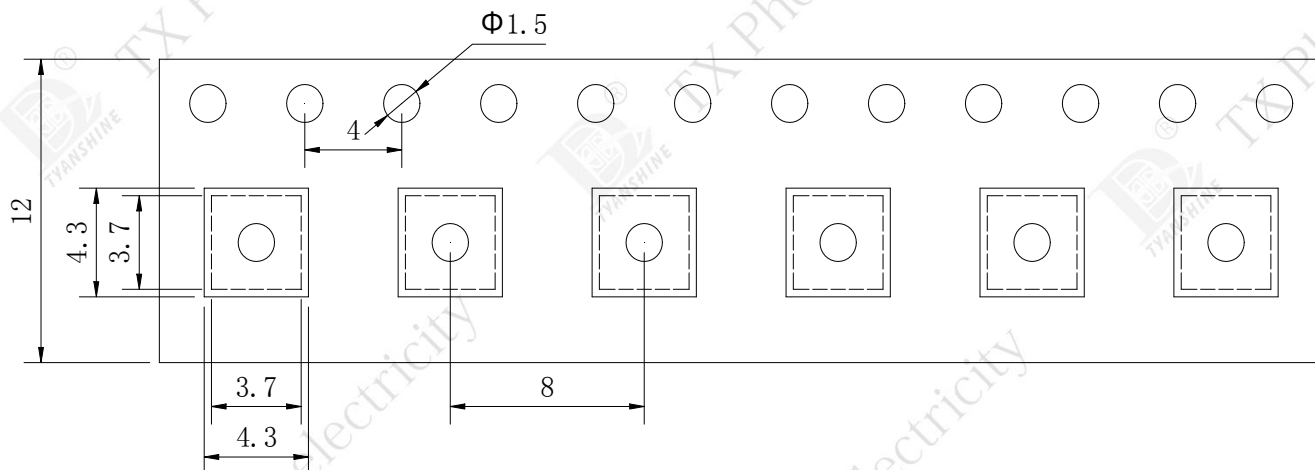
Profile Feature	Lead-Based Solder
Average Ramp-Up Rate (Tsmax to TP)	3°C/second max.
Preheat: Temperature Min (Tsmin)	100°C
Preheat: Temperature Max (Tsmax)	150°C
Preheat: Time (Tsmin to Tsmax)	60-120 seconds
Time Maintained Above: Temperature (TL)	183°C
Time Maintained Above: Time (TL)	60-150 seconds
Peak/Classification Temperature (TP)	225°C
Time Within 5°C of Actual Peak Temperature (TP)	10-30 seconds
Ramp-Down Rate	6°C/second max.
Time 25°C 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, Irreponsible of the Company.