

TX-6070W40VCA1-NP3CD-01

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 12A.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆ThinGaN

Emitting Color:

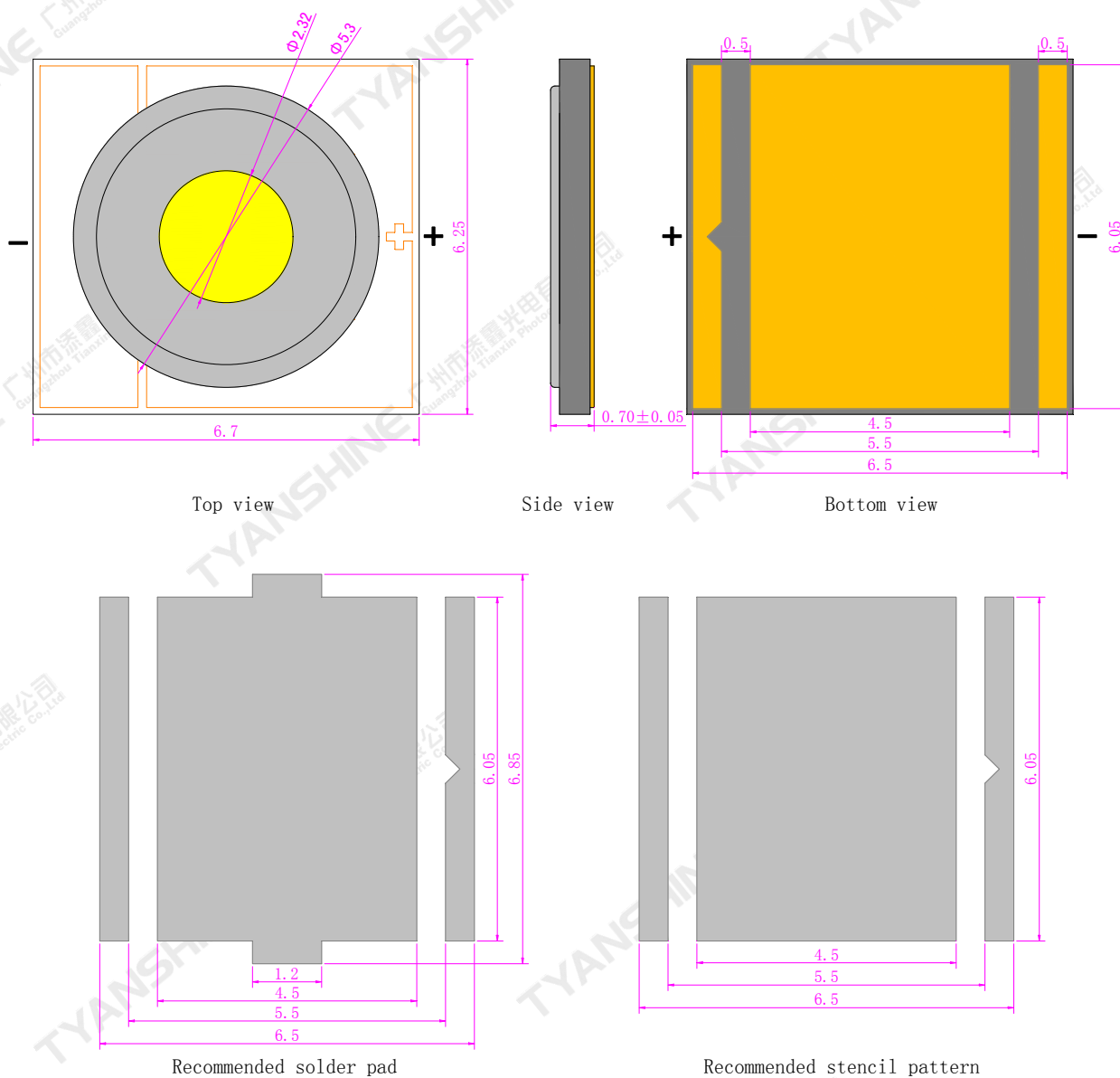
- ◆White (W)

Applications:

- ◆Auxiliary lighting
- ◆Ambient lighting
- ◆Architectural lighting

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Package Dimensions:



Notes:

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

Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol	Ratings	Unit
Forward Current	IF	12	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	40	W
Junction Temperature	Tj	150	℃
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	Tstg	-40~+70	℃
Operation Temperature	Topr	-30~+85	

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=1A	430	475	—	lm
		If=10A	2700	2950	—	
Forward Voltage	V_f	If=1A	2.6	2.9	3.4	V
		If=10A	4.5	4.8	5.3	
Correlated Colour Temperature	CCT	If=1A	5700	6200	7000	K
		If=10A	6300	6800	7800	
Spectral Line Half-Width	$\Delta\lambda$	If=10A	23	27	31	nm
Viewing Angle at 50 % IV	$2\theta_{1/2}$	—	—	120	—	Deg
Reverse Current	I_R	$V_R=-5V$	—	—	2	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	—	1.6	—	K/W
Temperature Coefficient of Voltage	$V\Delta F/T$	If=10A	—	-2.8	—	mV/°C

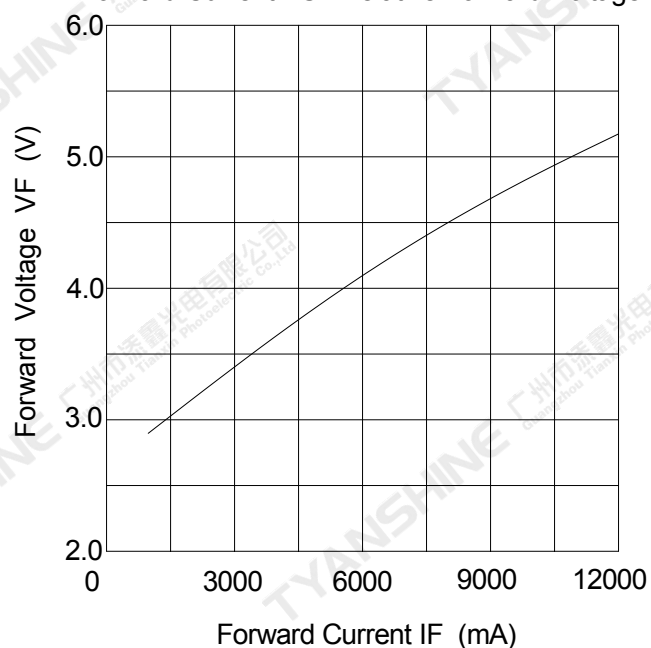
Notes:

- 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.

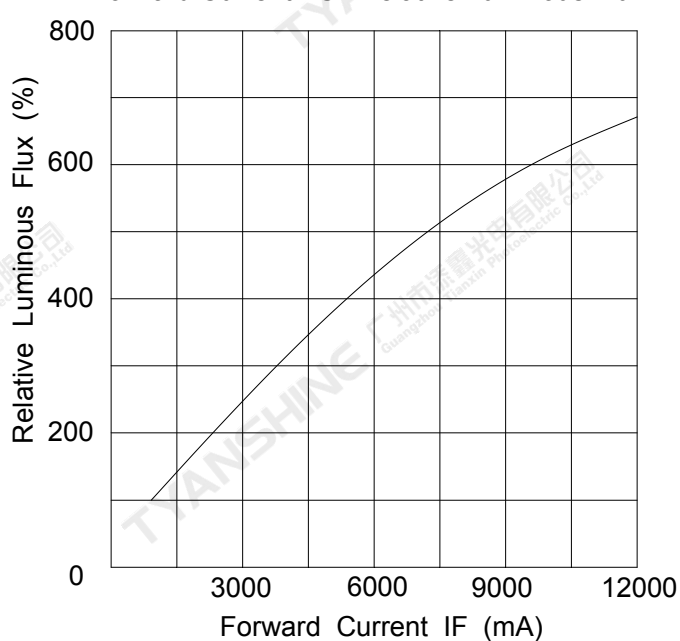
Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

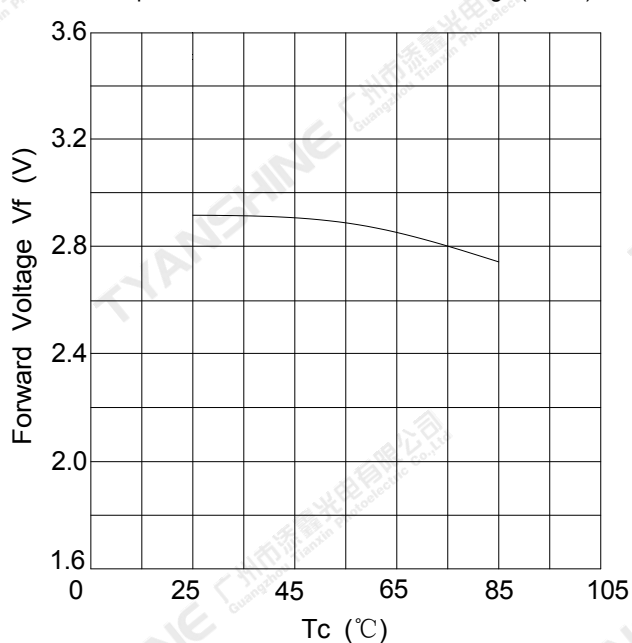
Forward Current VS. Relative Forward Voltage



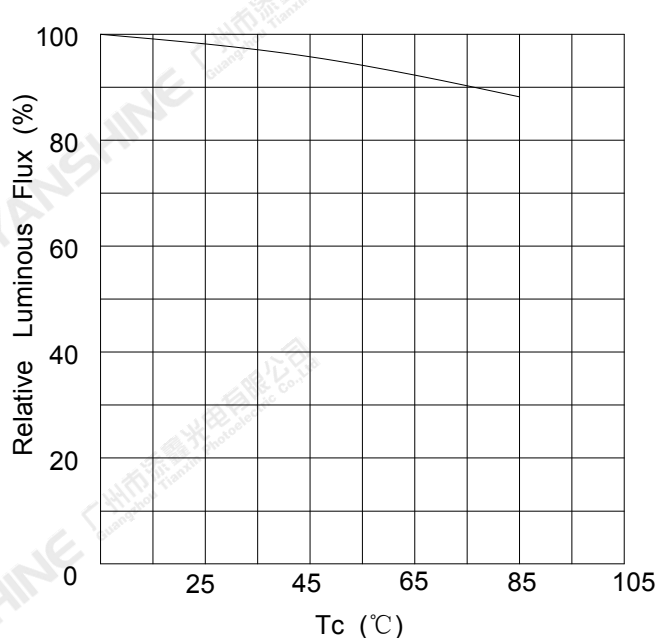
Forward Current VS. Relative Luminous Flux

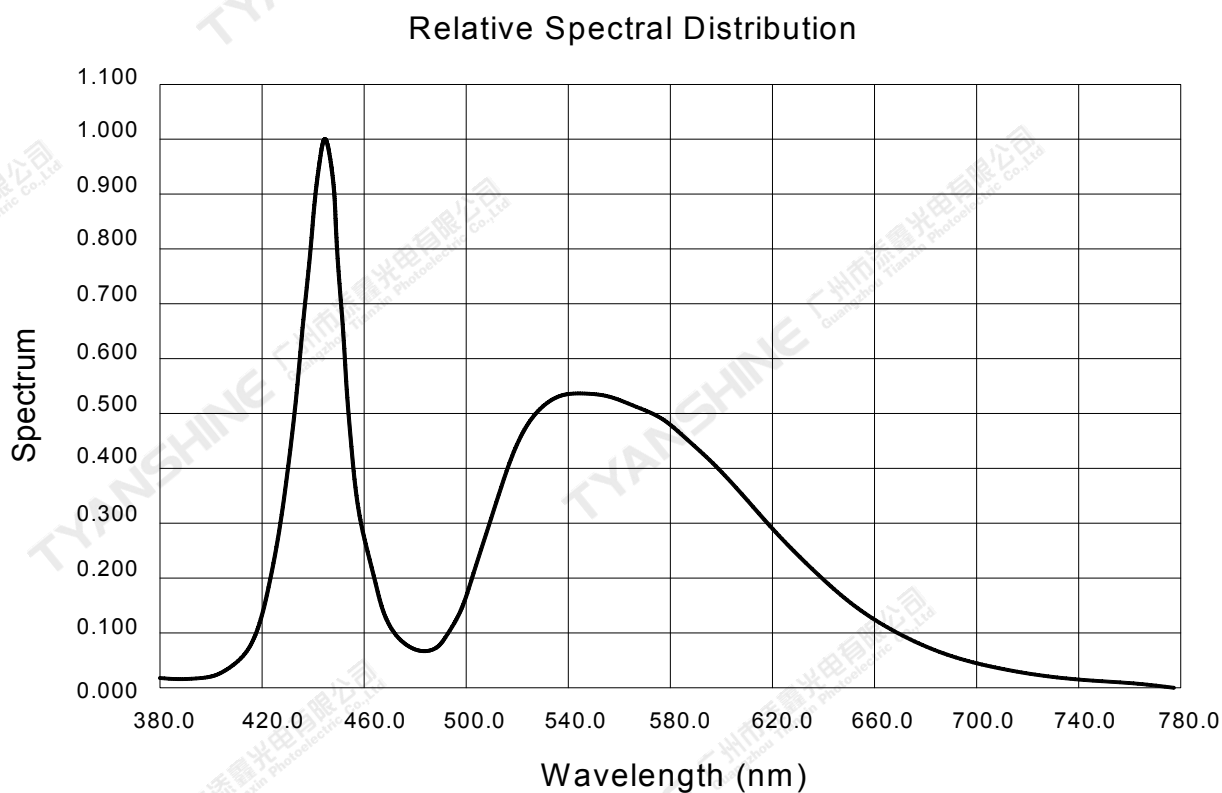
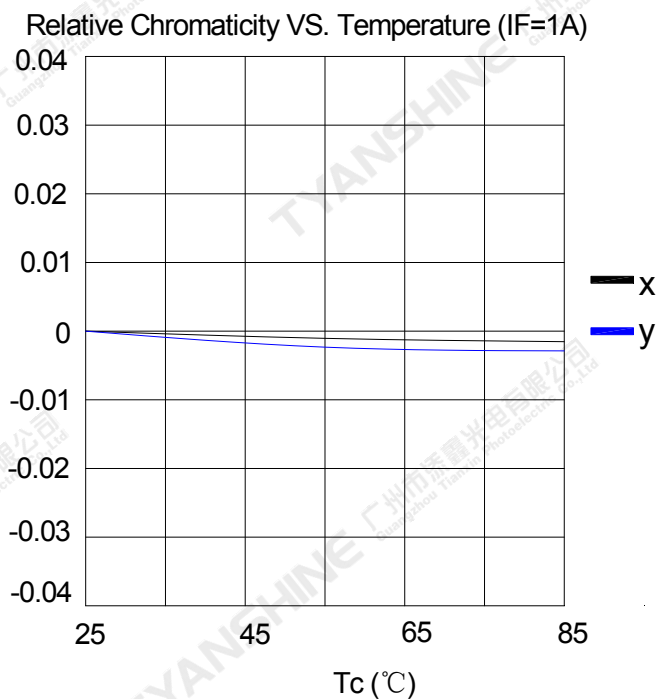
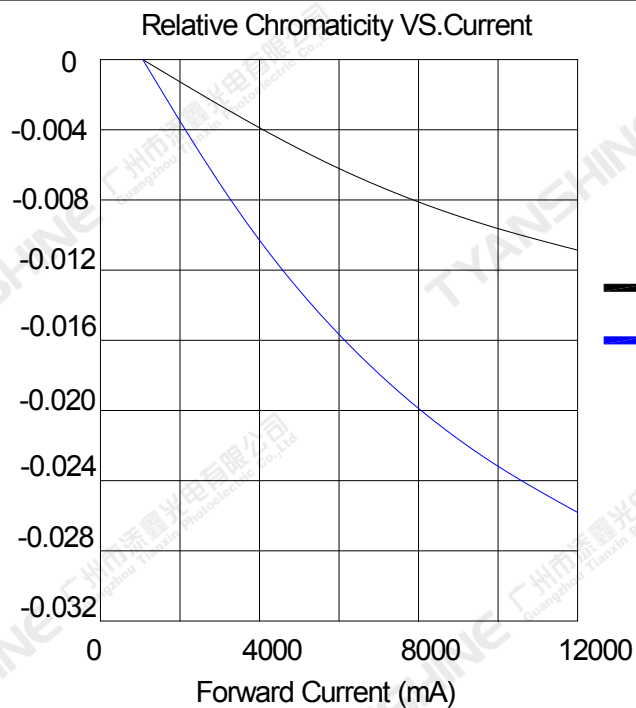


Temperature VS. Relative Forward Voltage (IF=1A)



Temperature VS. Relative Luminous Flux (IF=1A)



**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

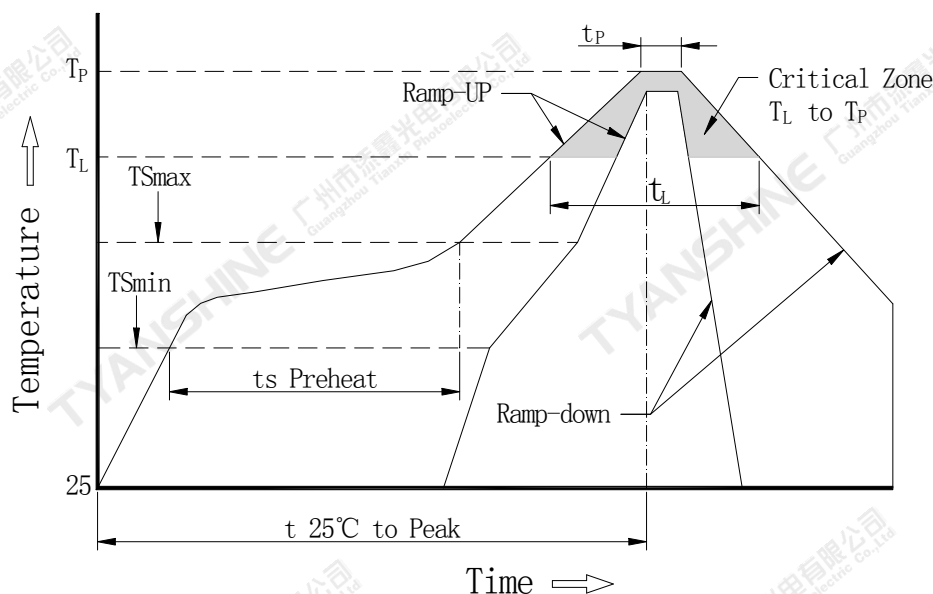
Storage Environment Condition

Temperature: 5°C ~ 30°C (41°F ~ 86°F)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown to the under figure.



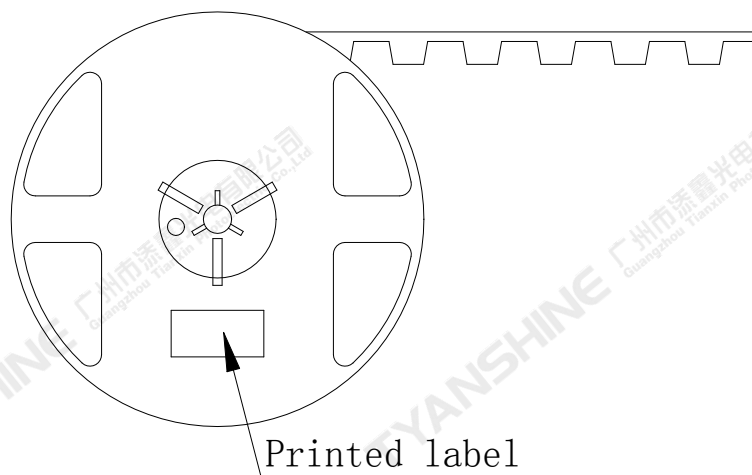
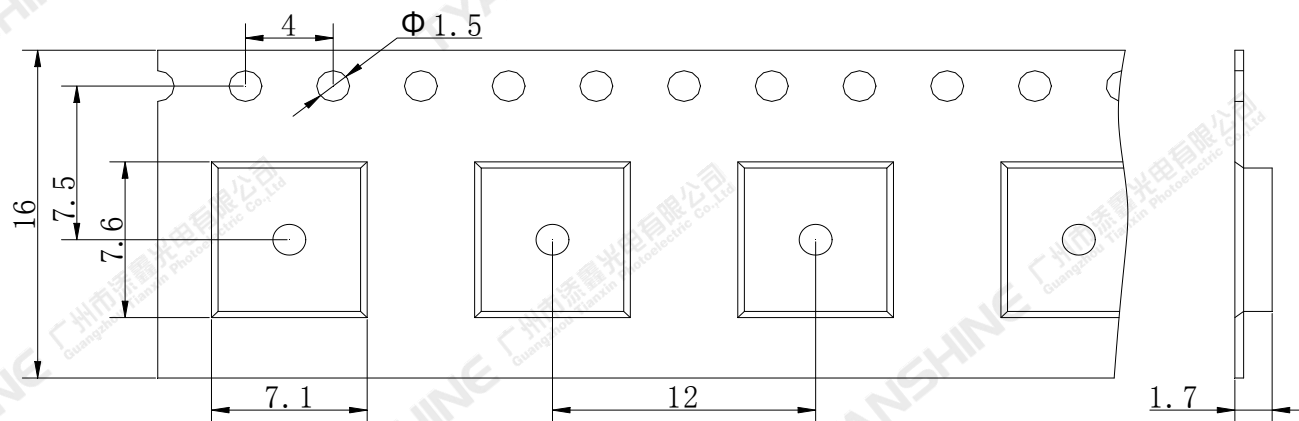
Profile Feature	Pb-Free Solderr(SnBi35Ag0.3)
Average Ramp-Up Rate (T _{smax} to T _p)	3°C/second max.
Preheat: Temperature Min (T _{smin})	100°C
Preheat: Temperature Max (T _{smax})	150°C
Preheat: Time (T _{smin} to T _{smax})	60-120 seconds
Time Maintained Above: Temperature (T _L)	183°C
Time Maintained Above: Time (T _L)	60-150 seconds
Peak/Classification Temperature (T _p)	225°C
Time Within 5°C of Actual Peak Temperature (T _p)	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: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.