

Preliminary

TX-3535Y3FC120-OGHCND34-03F DATA SHEET

Approved by:

Checked by:

Prepared by:

 Part No.
 TX-3535Y3FC120-OGHCND34-03F
 Spec No.
 WKF-BE0172
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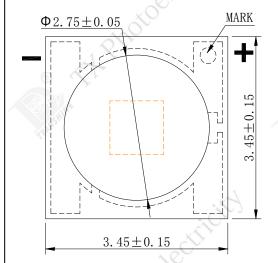
Features:

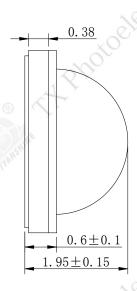
- ◆ Excellent Transiting Heat from LED Chip Operating under 700mA
- **High Luminous Output**
- No UV

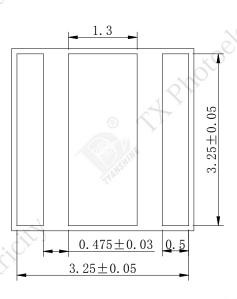
Typical purpose:

- ◆ Portable Flashlight
- Garden lighting
- General Lighting

Package Dimensions:









Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm (0.01") unless otherwise noted.

	Part NO.	Lens Color	Emitting Color
)	TX-3535Y3FC120-OGHCND34-03F	Water Clear	Yellow

Absolute Maximum Ratings at Ta=25℃

Parameter	Symbol	Min	Тур	Ma x	Unit
LED Junction Temperature	Tj			150	$^{\circ}\!\mathbb{C}$
Power Dissipation	P_{D}	160	910	1820	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	I _{FP}	<u> </u>		1000	mA
Continuous Forward Current	IF		350	700	mA
Reverse Voltage	V_R		5	<u>(8)</u>	V
Electrostatic Discharge Threshold (ESD)	ESD		ESD sensitive device	TYANGAI	V
Operating Temperature Range	Topr	-40	Eijs -	70	$^{\circ}\! \mathbb{C}$
Storage Temperature Range	T_{spr}	-40	_	100	C

Notes:

- 1. Specifications are subject to change without notice.
- 2. Under the stipulated Characteristics parameters above, the life span of the LED is more than 50,000hours.
- 3. The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.
- 4. 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.

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Characteristics at If=350mA ,Vr=5V (Ta=25°C):

Parameter	Symbol	Values			I Ioha	
Parameter		Min.	Тур.	Max.	Units	
Luminous Flux	Фу	55	75		lm	
Viewing Angle at 50% IV	$2\theta_{1/2}$		120	ANSW INE	Deg	
Forward Voltage	$V_{\rm f}$	2.1	2.3	2.6	V	
Peak Emission Wavelength	λр	593	598	602	nm	
Dominant Wavelength	λd	587	592	596	nm	
Spectral Line Half-Width	Δλ	15	20	25	nm	
Reverse Current	I_{R}			10	μА	
Thermal Resistance Junction to Case	Rθ _{J-C}		8		K/W	
Temperature Coefficient of Forward Voltage	V△F/T		-2	<u>©</u>	mV/°C	

Notes:

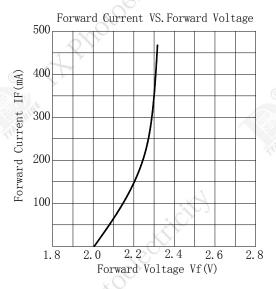
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- $2.\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity
- 3. The dominant wavelength (λd) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- 4. Flux is measured with an accuracy of $\pm 15\%$.
- 5. Forward voltage is measured with an accuracy of ± 0.15 V

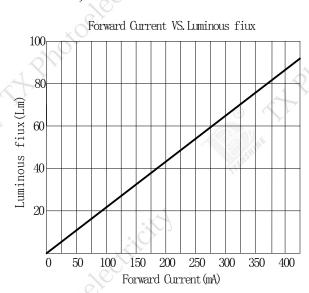
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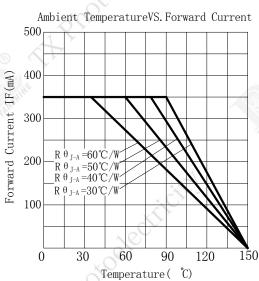


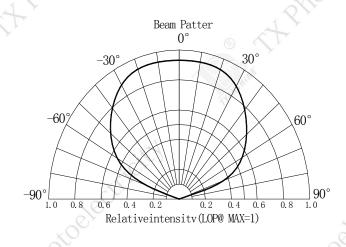
Typical Electrical / Optical Characteristics Curves

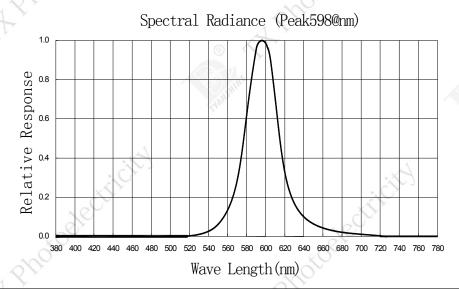
S(25°C Ambient Temperature Unless Otherwise Noted)











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PRECAUTION IN USE

Storage

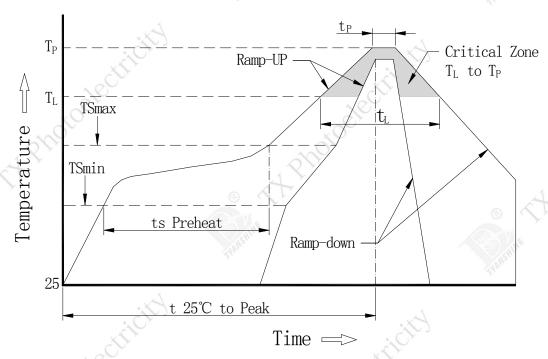
Recommended storage environment

Temperature: 5° C ~ 30° C (41oF ~ 86oF)

Humidity: 60% RH Max.

Soldering

Use the conditions shown to the under figure.



Profile Feature	Lead-Based Solder	Lead-Free Solder	
Average Ramp-Up Rate (Ts _{max} to T _p)	3°C/second max.	3°C/second max.	
Preheat: Temperature Min (Ts _{min})	100℃	150℃	
Preheat: Temperature Max (Ts _{max})	150℃	200 ℃	
Preheat: Time (Ts _{min} to Ts _{max})	60-120 seconds	60-180 seconds	
Time Maintained Above: Temperature (T _L)	183℃	217°C	
Time Maintained Above: Time (T _L)	60-150 seconds	60-150 seconds	
Peak/Classification Temperature (T _P)	215℃	260℃	
Time Within 5°C of Actual Peak Temperature (T _P)	10-30 seconds	20-40 seconds	
Ramp-Down Rate	6°C/second max.	6°C/second max.	
Time 25°C to Peak Temperature	6 minutes max.	8 minutes max.	
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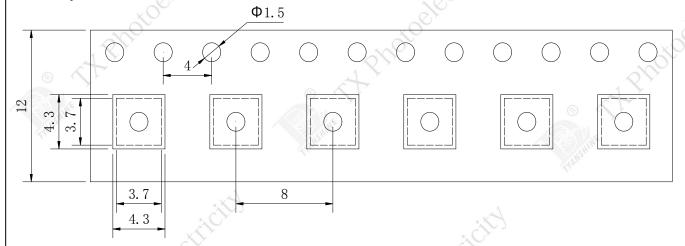
Note: All temperatures refer to topside of the package, measured on the package body surface.

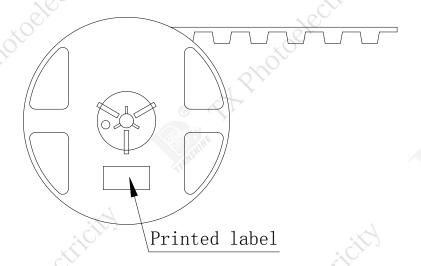
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Dimensions for Cannulation and Packaging

Quantity: 1000PCS





Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 2.0 mm (0.08") 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.

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