

LEASON TECHNOLOGIES CO, LTD.

5F,No.25,Ln.267,Chang'anSt, Luzhou Dist.
New Taipei City 247,Taiwan,R.O.C.
E-Mail :scar8963004@yahoo.com.tw

TEL :02- 22899114
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MOBILE: 0972174772

2835 Package (0.2W)



Features

- P-LCC-2 package
- Top view LED
- Wide viewing angle:120°
- High Luminous intensity
- High Efficacy
- Pb-free
- RoHS-compliant
- ANSI Binning (3000K, 4000K CCT)

Applications

- General lighting
- Decorative and Entertainment Lighting
- Indicators
- Illumination
- Switch lights

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ATTENTION

OBSERVE PRECAUTIONS

PRELIMINARY SPEC

3.5x2.8mm SMD CHIP LED

PART NO: HN-2835M-A

BLUE
RED
GREEN

FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

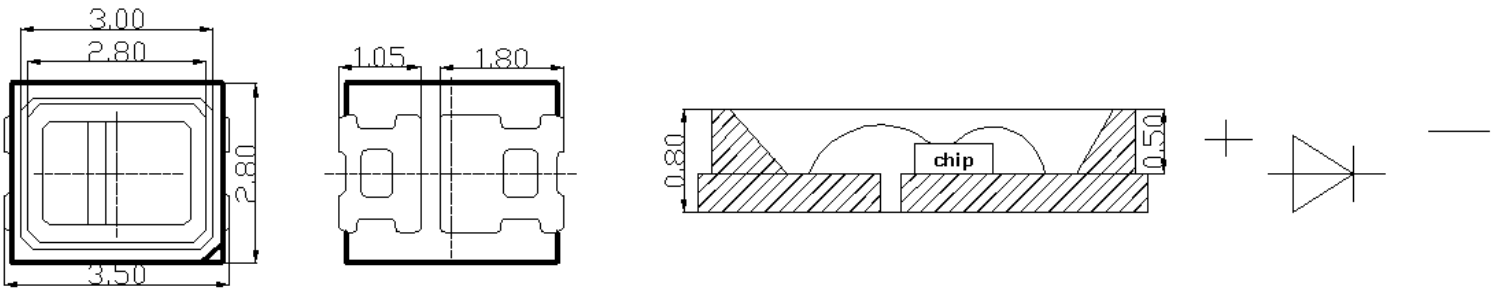
Features

- 3.5mmX2.8mm SMT LED 0.8mm THICKNESS
- WIDE VIEWING ANGLE
- IDEAL FOR BACKLIGHT AND INDICATOR
- PACKAGE: 1000pcs/REEL
- POHS COMPLIANT

Applications

- Automotive: backlighting in dashboard and switch
- Telecommunication: indicator and backlighting in telephone and fax.
- Flat backlight for LCD switch and symbol

◆ Package Dimensions



NOTES:

1. All dimensions are in millimeters.
2. Tolerance is ± 0.25 unless otherwise noted
3. Specifications are subject to change without notice

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◆ Device Selection Guide

Part no	Chip		Lens color
HN-2835M-A	Material	Emitted color	Yellow fluvoescent
	(InGan)	WHITE	

◆ Absolute Maximum Ratings at TA=25° C

Parameter	Symbol	Value	Unit
Power Dissipation	PD	200	Unit
Forward Current	IF	60	mW
Peak Forward Current*1	IFP	120	mA
Reverse Voltage	VR	5	mA
Operating Temperature	Topr	-20°C To +85°C	
Storage Temperature	Tstg	-30°C To +85°C	

Notes:

*1: Pulse width≤0.1ms, Duty cycle≤1/10

◆ Electrical / Optical Characteristics at TA=25° C

Parameter	Symbol	Min	Typ	Max	Unit	Test conditions
Forward Voltage	VF	3.2	—	3.4	V	IF=20mA/per ch
Reverse Current	IR	—	—	3	μA	VR=5V/per chip
Chromaticity Coordinates	X	—	0.28	—		
	Y	—	0.28	—		
Luminous Intensity	IV	18	—	24	lm	IF=60mA/three
Viewing Angle	2θ1/2	—	120	—	deg	IF=20mA/per ch

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or chromaticity), the typical accuracy of the sorting process is as follows:

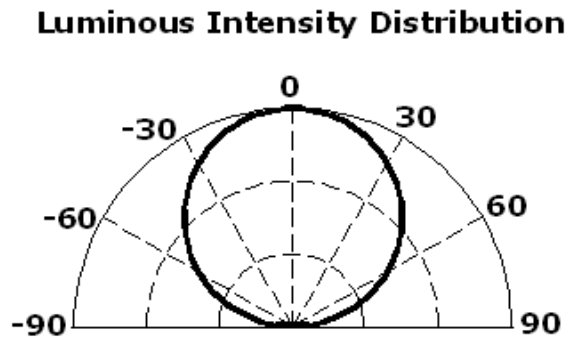
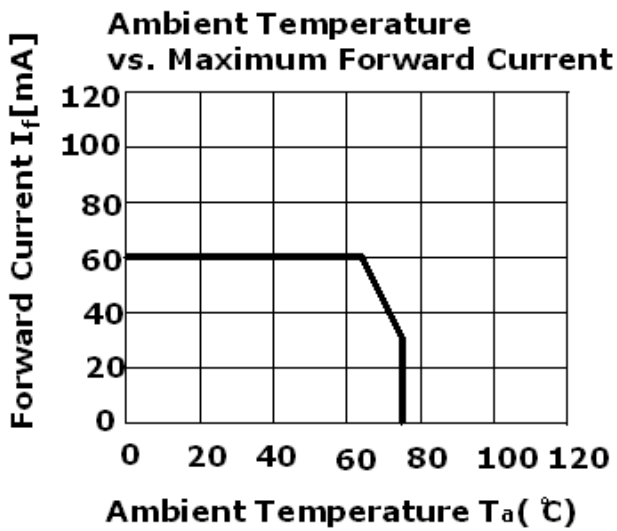
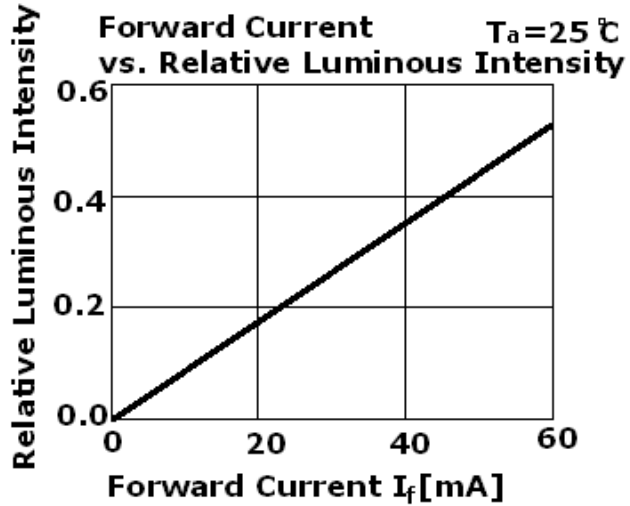
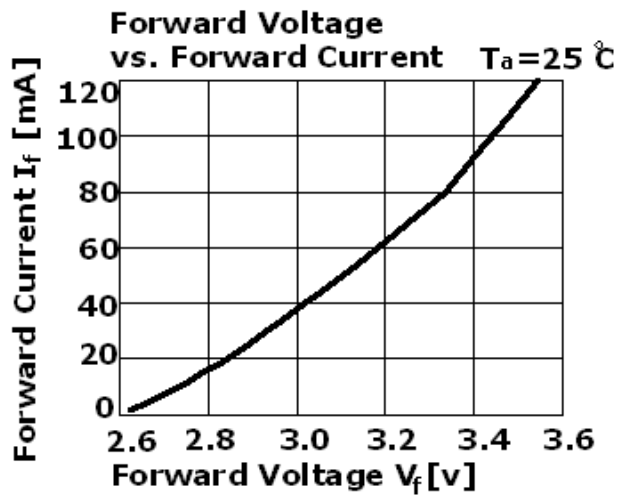
1. wavelength: ±1nm
2. Luminous Intensity: ±15%
3. Forward Voltage: ±0.1V

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◆ Typical Electrical/Optical Characteristics Curves

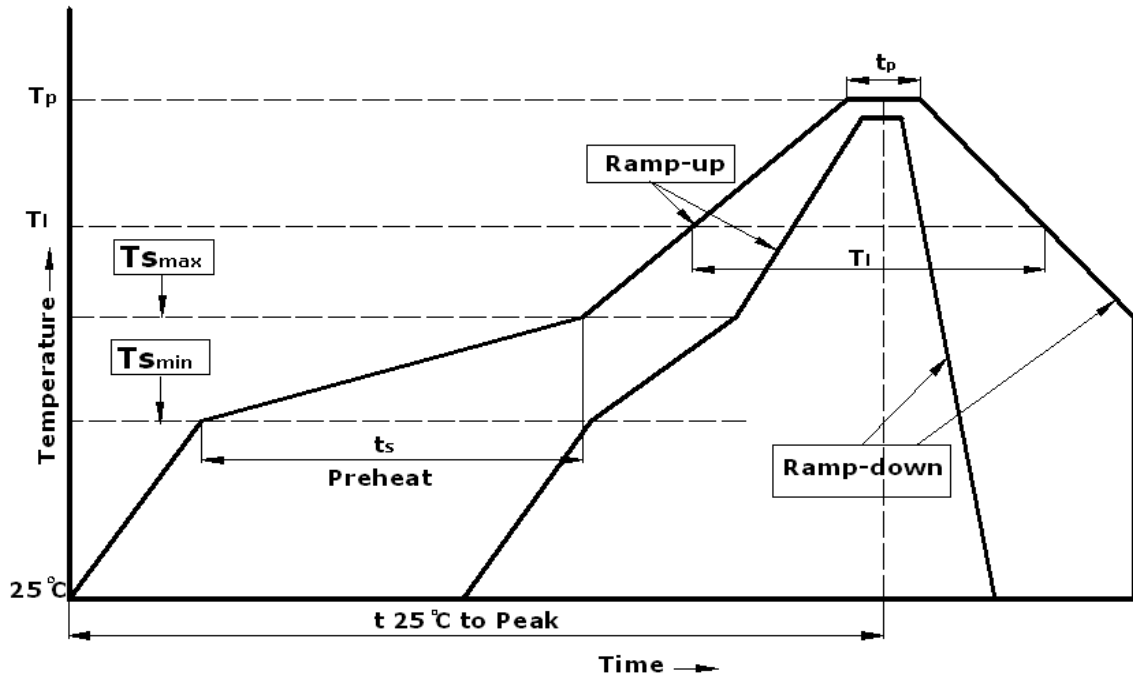


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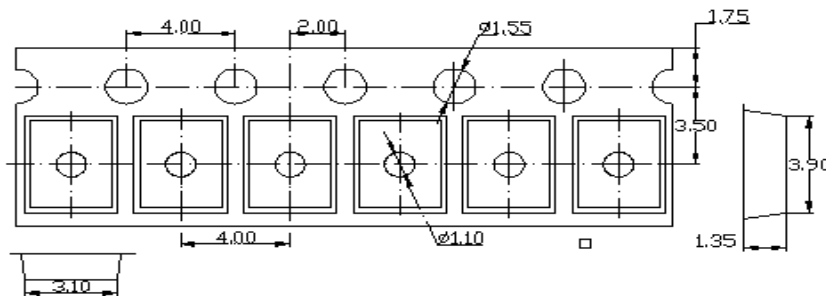
◆ Soldering Profile



NOTES:

1. We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.

◆ Tape specifications
(Units:mm)

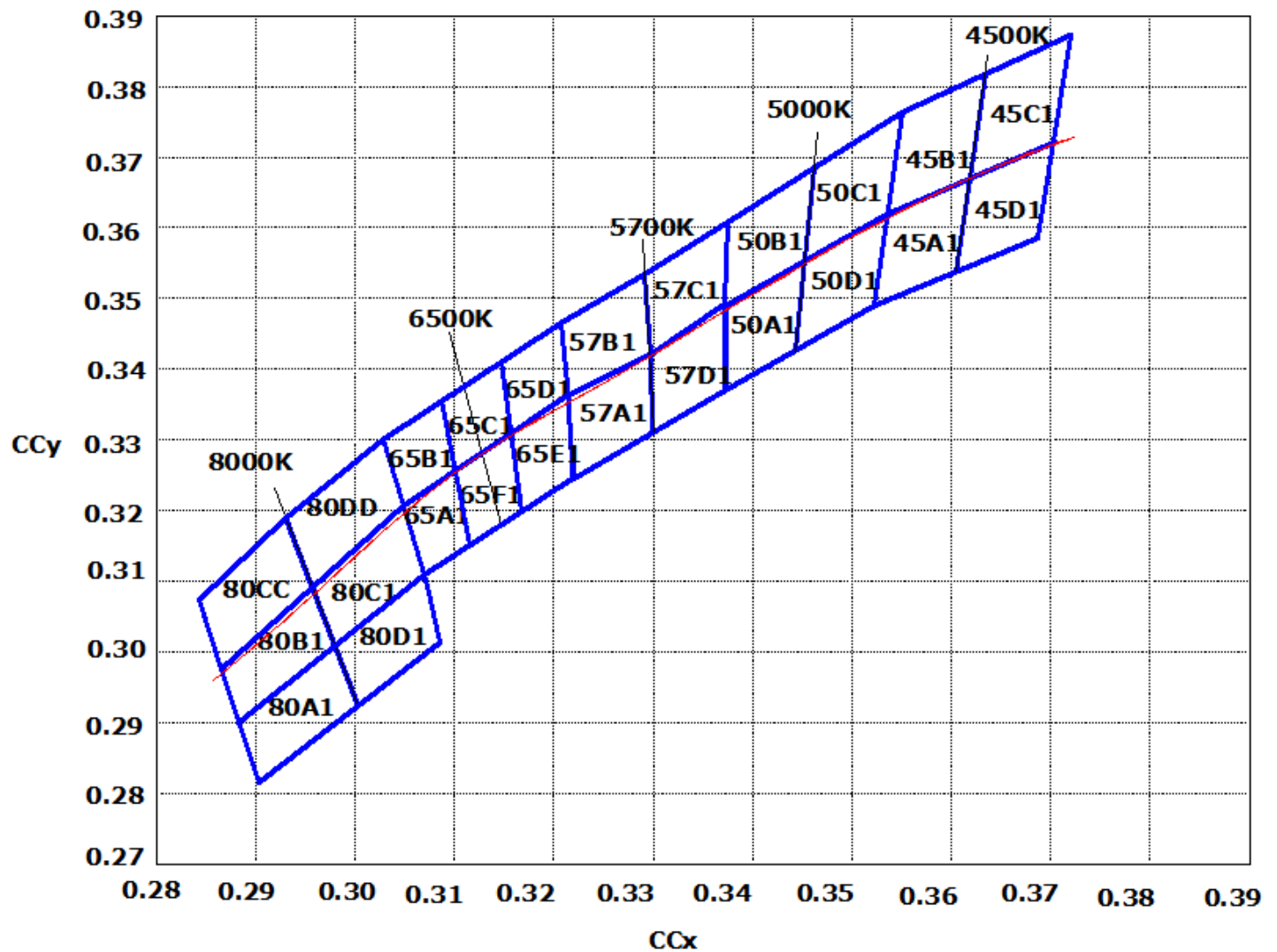
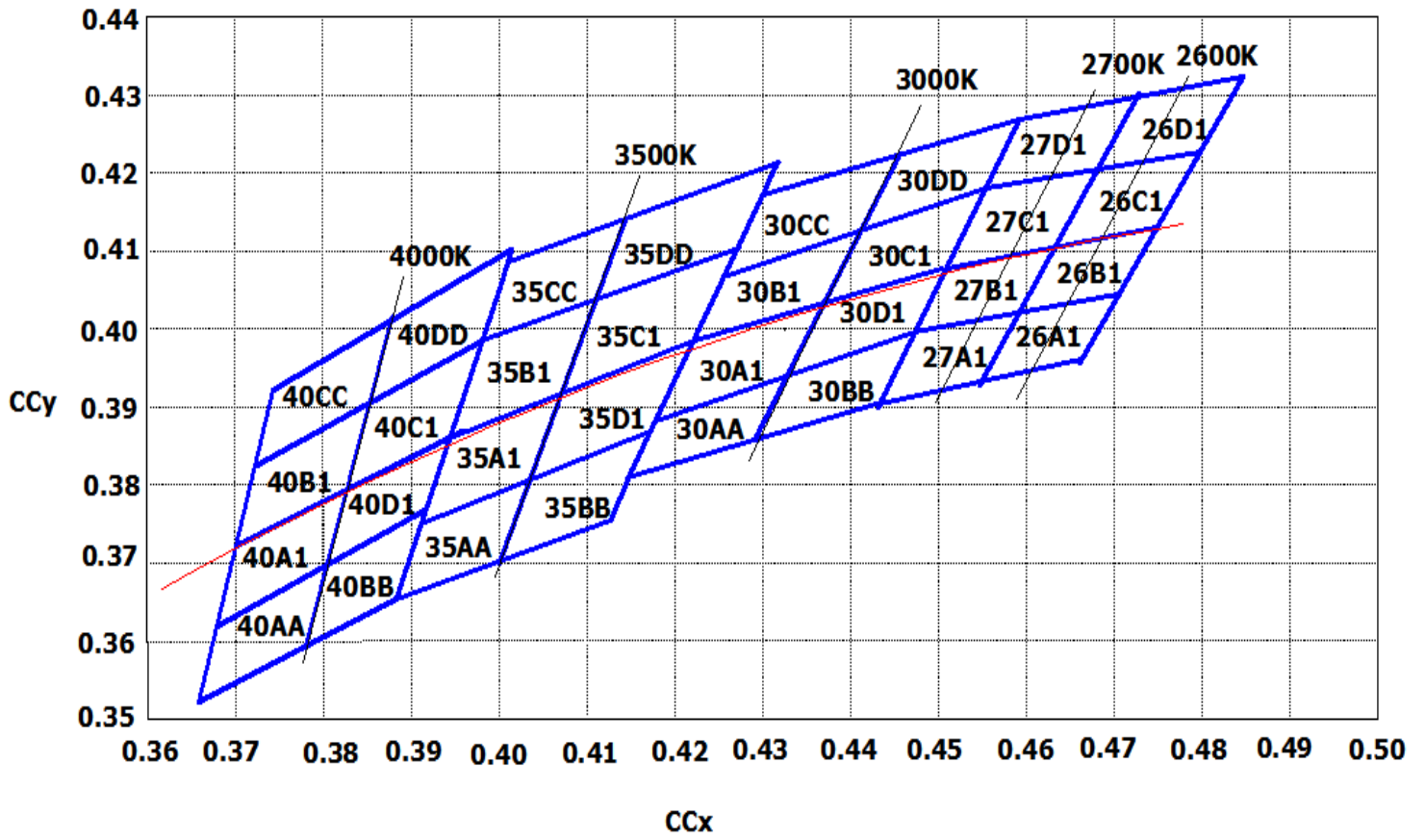


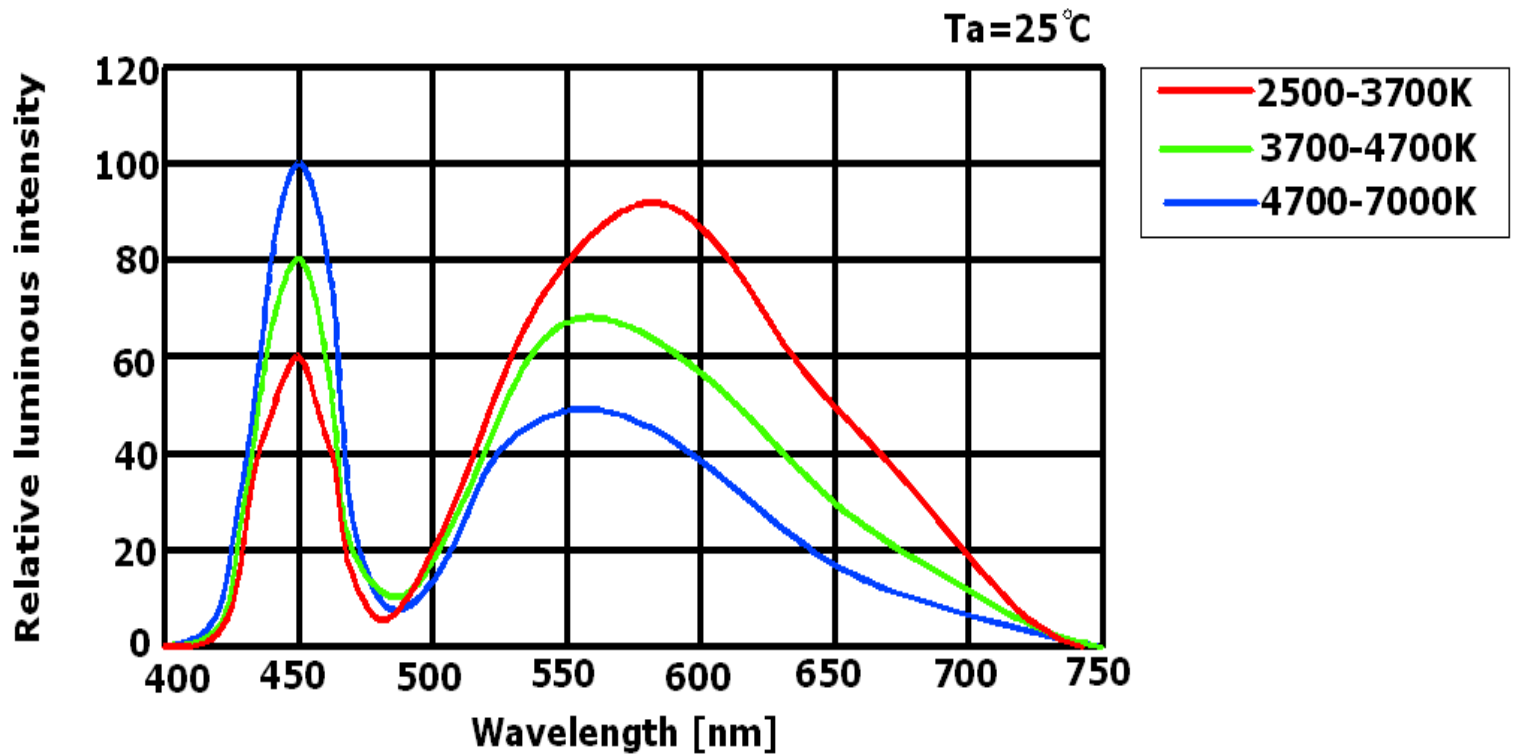
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CCT Characteristics





◆ **CAUTIONS:**

1.Storage

* In order to avoid the absorption of moisture, it is recommended to store in the dry box (or desiccator) with a desiccant. Otherwise, to store them in the following environment is recommended.

Temperature: 5°C~30°C

Humidity: 60%HR max.

* Attention after opened

However LED is corresponded SMD, when LED be soldered dip, interfacial separation may affect the light transmission efficiency, causing the light intensity to drop. Attention in followed.

a. After opened and mounted, the soldering shall be quickly.

b. Keeping of a fraction

Temperature: 5°C~40°C

Humidity: less than 30%

* In case or more than 1 week passed after opening or change color of indicator on desiccant components shall be dried 10-12hr. at 60°C±3°C.

* In case of supposed the components is humid, shall not be dried dip-solder just before.

100Hr at 80°C±3°C or 12Hr at 100°C±3°C

2.ESD (Electrostatic Discharge)

Static Electricity or power surge will damage the LED.

The following procedures may decrease the possibility of ESD damage.

* All production machinery and test instruments must be electrically grounded.

* Use a conductive wrist band or anti-electrostatic glove when handling these LEDs.

* Maintain a humidity level of 50% or higher in production areas.

* Use anti-static packaging for transport and storage.

◆ Revision History:

Rev.	No.	Change	description	Date	Prepared
A/0	New-made	specification			

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