



## **SAMPLE APPROVAL SHEET**

### **DESCRIPTIONS:**

- 5mm rounded LED Lamps
- Emitting Color: white
- Lens Color: Water Clear

**CUSTOMER:**

**MASON P/N:** \_\_\_\_\_  
**L-05W2L2E343C11-01-A**  
\_\_\_\_\_

**CUSTOMER P/N:** \_\_\_\_\_  
\_\_\_\_\_

### **CUSTOMER APPROVED SIGNATURES**

<b>APPROVED BY</b>	<b>CHECKED BY</b>



5mm rounded White LED

PARTNO.:L-05W2L2E343C11-01-A



**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES

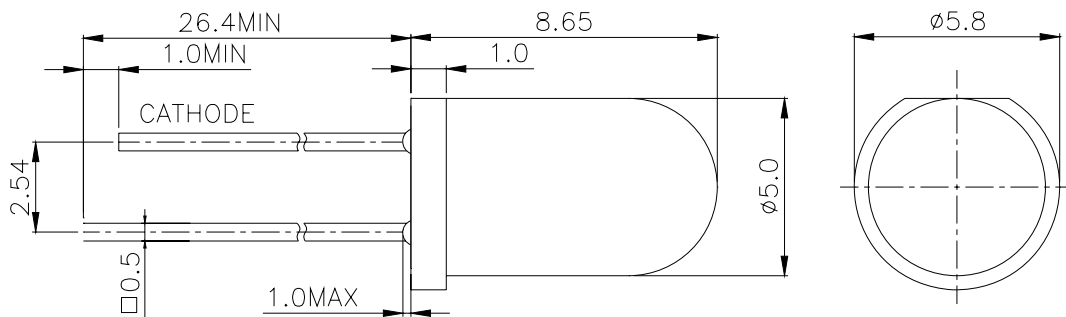
## Features

- Low power consumption
- Excellent product quality and reliability
- Lead-free device.

## Applications

- Electronic signs and signals
- Bright ambient lighting conditions
- Backlights
- General purpose indicators

## ◆ Package Dimensions



## Notes:

1. All dimensions are in millimeters.
2. Tolerance is  $\pm 0.25$  unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

Address:  
Tel:



## ◆ Device Selection Guide

Part No.	Chip		Lens color
L-05W2L2E343C11-01-A	Material	Emitted color	Water Clear
	InGaN	White	

## ◆ Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	Value	Unit
Power Dissipation	P <sub>D</sub>	70	mW
Forward Current	I <sub>F</sub>	20	mA
Peak Forward Current*1	I <sub>FP</sub>	100	mA
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature	T <sub>opr</sub>	-40°C To +85°C	
Storage Temperature	T <sub>stg</sub>	-40°C To +85°C	
Soldering Temperature*2	T <sub>sol</sub>	260°C For 4 Seconds	

Notes:

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

\*2: 1.6mm below package base.

## ◆ Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Typ.	Max	Unit	Test Conditions
Forward Voltage	V <sub>F</sub>	2.80	3.00	3.80	V	I <sub>F</sub> =20mA
Reverse Current	I <sub>R</sub>	—	—	10	μA	V <sub>R</sub> =20V
Dominant Wavelength	X	0.250	—	0.350	—	I <sub>F</sub> =20mA
	Y	0.260	—	0.360	—	
Luminous Intensity	I <sub>v</sub>	12000		20000	mcd	I <sub>F</sub> =20mA
50% Power Angle	2θ <sub>1/2</sub>	—	15	—	Deg.	I <sub>F</sub> =20mA

Remarks:

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

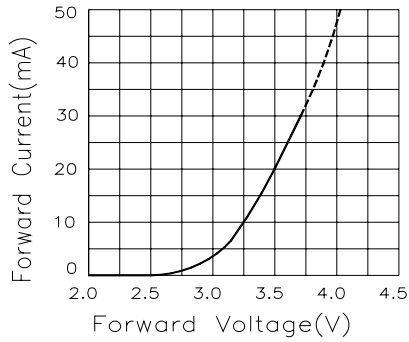
1. Dominant Wavelength: +/-1nm
2. Chromatic Coordinates: +/-0.01
3. Luminous Intensity: +/-15%
4. Forward Voltage: +/-0.1V

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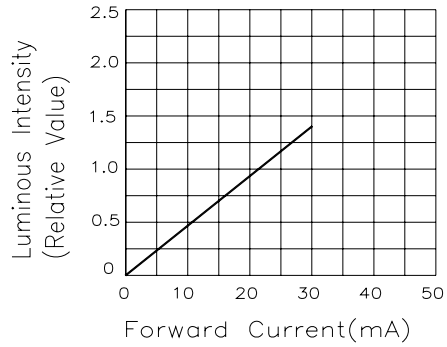


## ◆ Typical Electrical/Optical Characteristics Curves ( Ta=25°C Unless Otherwise Noted )

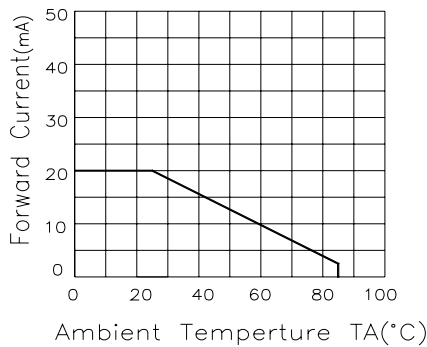
Forward Current vs.  
Forward Voltage.



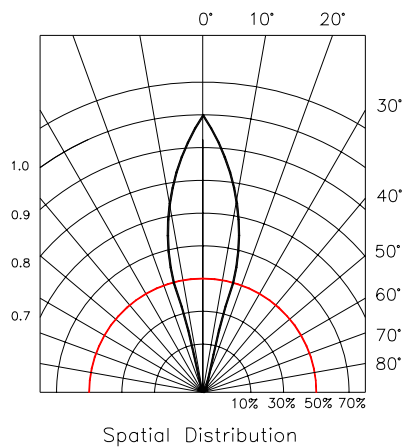
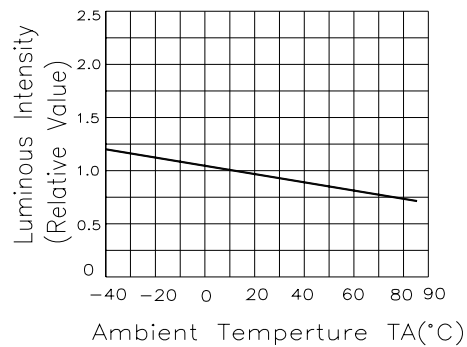
Luminous Intensity vs.  
Forward Current.



Forward Current  
Derating Curve.



Luminous Intensity vs.  
Ambient Temperature.



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◆ CAUTIONS:

**1. Lead Forming & Assembly**

- Any lead forming or bending must be done before soldering, at normal temperature.
- When forming leads, there must be a minimum of 3mm clearance between the base of the LED lens and the lead bend.
- Do not use the base of the lead frame as a fulcrum during lead forming.
- Avoid bending the leads at the same point more than once.
- During assembly onto PCB, the lead pitch of the LED must match the pitch of the mounting holes on the PCB during component placement.

**2. Cleaning:**

- Isopropyl alcohol or deionized water are recommended solvents for cleaning. When using other solvents, it should be confirmed beforehand whether the solvents will dissolve the resin or not.

**3. Storage**

- The storage ambient for the LEDs should not exceed 30°C temperature or 70% relative humidity.
- It is recommended that LEDs out of their original packaging are used within three months. For extended storage out of their original packaging, it is recommended that the LEDs be stored in a sealed container with appropriate desiccant or in desiccators with nitrogen ambient.

**4. 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 by	Checked by	Approved by
A/0	New-made specification	2008/11/27	谢芳娥		

Address:  
Tel: