

RoHS

Specification

规格书

Customer Name :

客户名称 : _____

Customer P/N :

客户品号 : _____

Factory P/N :

公司品号 : GCS0302FO1A1GD

Sending Date :

送样日期 : _____

| Client approval 客户审核 | | | Goozo approval 鸿利国泽审核 | | |
|--|--|--------------------|--------------------------|-------------|--------------------|
| Approval 核准 | Audit 确认 | Confirmation 制作 | Approval 核准 | Audit 确认 | Confirmation 制作 |
| | | | 潘桂建 | 赵丹 | 夏昊 |
| <input type="checkbox"/> Qualified 接受 | <input type="checkbox"/> Disqualified 不接受 | DATE: 日期: | | | |

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注:

- 1.此规格书以中英文方式书写,若有冲突以中文版本为准文本.
- 2.此规格书的最终解释权归属江苏鸿利国泽光电科技有限公司



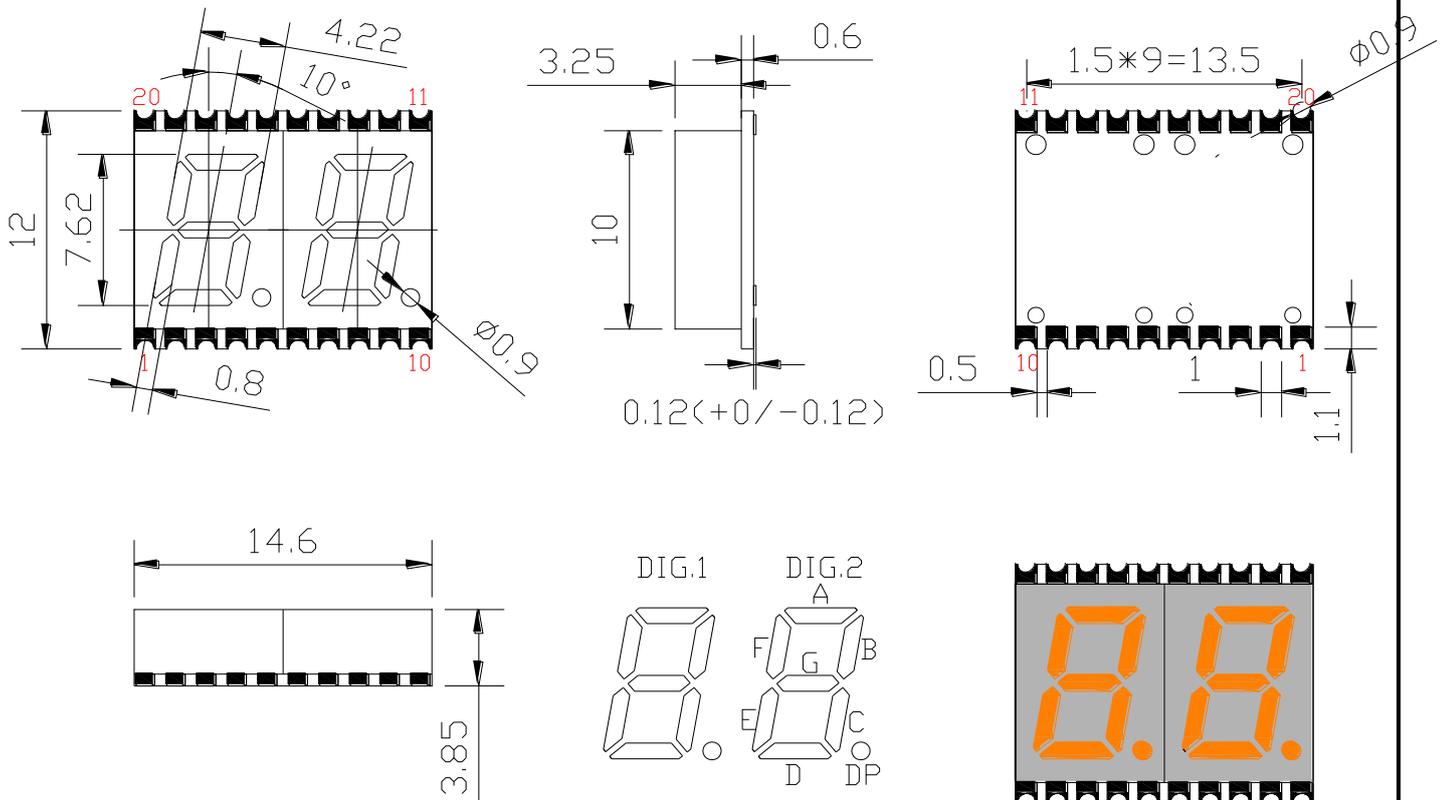


ATTENTION 注意
 OBSERVE PRECAUTIONS
 FOR HANDLING
 ELECTROSTATIC
 DISCHARGE
 SENSITIVE
 DEVICES

Features

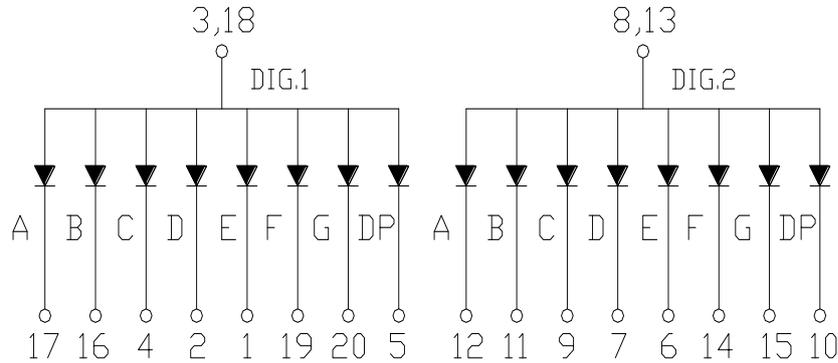
- 0.3" Two Numeric Display
- Orange emitting, low power consumption, long life span
- Gray -faced white plastic, Common Anode Show
- Complied With RoHS Directive
- Widely used in all kinds of household appliances, instruments and meters.

Package Dimensions



Unmarked tolerance : ± 0.25
 Unit : mm

Internal Circuit Diagram



Absolute Maximum Rating

| Item 项目 | Symbol 符号 | Value 数值 | Unit 单位 |
|------------------------------|-------------------|-----------|---------|
| Forward Current 正向电流 | I_{FM}/seg | 20 | mA |
| Pulse Forward Current*正向脉冲电流 | $I_{FM (IM)}/seg$ | 60 | mA |
| Reverse Voltage 反向电压 | V_{RM}/seg | 5 | V |
| Operation Temperature 操作温度 | T_{opr} | -30 ~ +85 | °C |
| Storage Temperature 储存温度 | T_{stg} | -40 ~ +85 | °C |

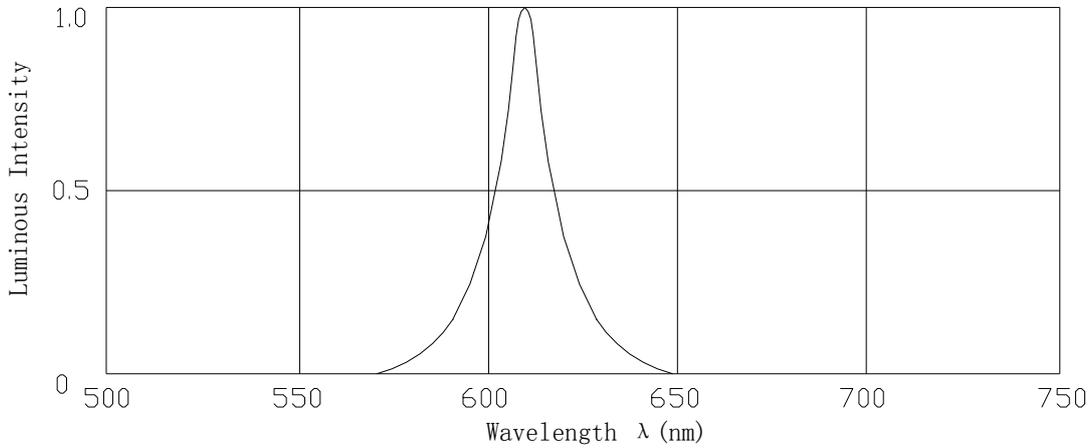
* Note: Pulse Width $\leq 0.1ms$, Duty $\leq 1/10$

Typical Optical/ Electrical Characteristics $T_a=25^\circ C$

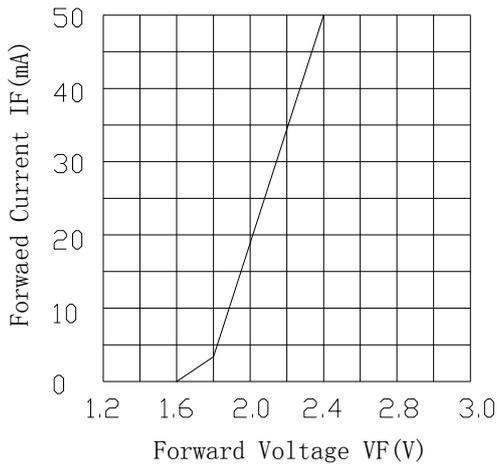
| Item/项目 | Symbol/符号 | Condition/条件 | Min. 最小值 | Typ. 典型值 | Max. 最大值 | Unit 单位 |
|---------------------------------------|-----------------|--------------|----------|----------|----------|---------|
| Luminous Intensity/光强 | I_v | IF=20mA | 75 | -- | 185 | mcd |
| Forward Voltage/正向电压 | V_F | | 1.7 | 2.0 | 2.5 | V |
| Peak Wavelength/峰值波长 | λ_p | | --- | 610 | --- | nm |
| Dominant Wavelength/主波长 | λ_d | | 600 | -- | 610 | nm |
| Spectrum Radiation Bandwidth/ 半波宽度 | $\Delta\lambda$ | | -- | 20- | -- | nm |
| Reverse Current/反向电流 | IR | $V_r=5V$ | -- | -- | 50 | μA |

■ Typical Characteristics Curves

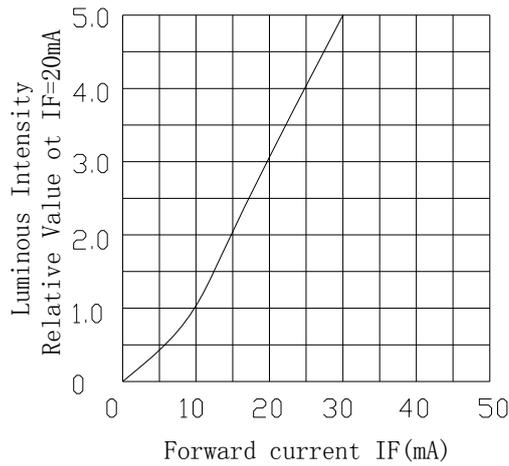
Relative Spectral Distribution



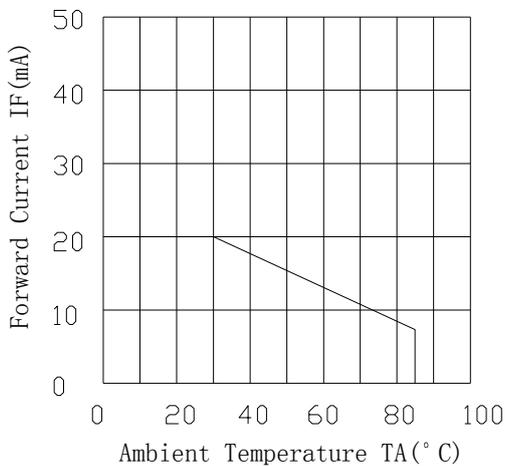
FORDWARD CURRENT VS.
 FORDWARD VOLTAGE



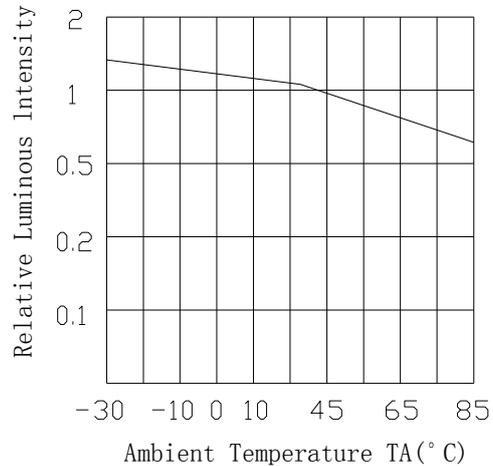
LUMINOUS INTENSITY VS.
 FORDWARD CURRENT



FORDWARD CURRENT
 DERATING CURVE



LUMINOUS INTENSITY VS.
 AMBIENT TEMPERATURE



■ **Guideline for Soldering**

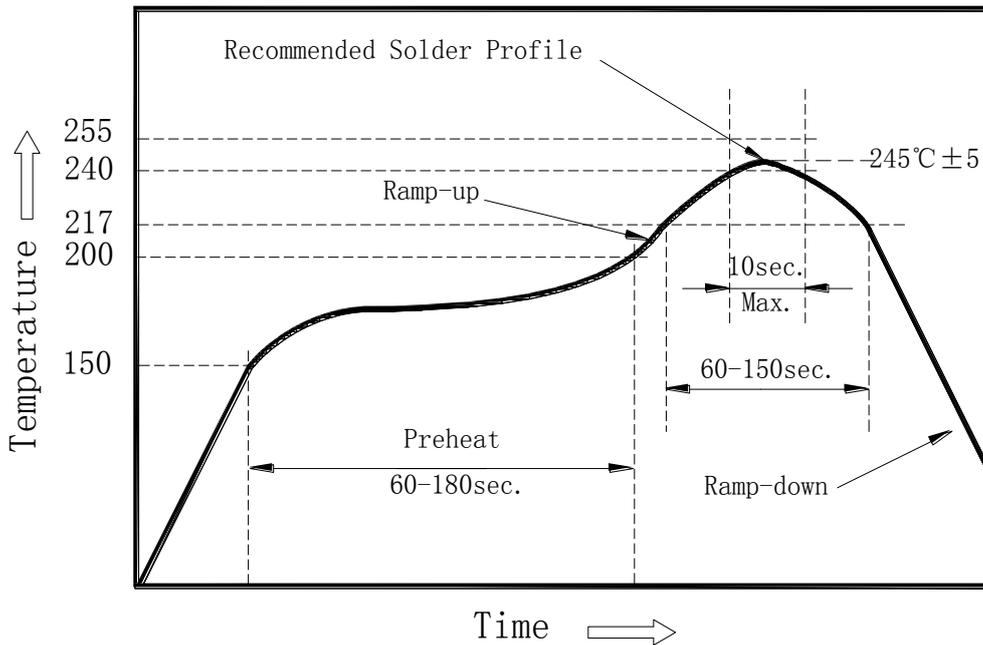
1、Hand Soldering

A soldering iron of less than 30W is recommended to be used in Hand Soldering. Please keep the temperature of the soldering iron under 340°C while soldering. Each terminal of the LED is to go for less than 3 second and for one time only.

Be careful because the damage of the product is often started at the time of the hand soldering.

2、Reflow Soldering

Use the conditions shown in the under Figure of Pb-Free Reflow Soldering.



- Reflow soldering should not be done more than two times.
- Stress on the LEDs should be avoided during heating in soldering process.
- After soldering, do not deal with the product before its temperature drop down to room temperature.

■ **Precautions**

1、Storage

Under the storage conditions of 30°C or less and humidity less than 60%RH, the LEDs can be storage for 12months. Storage in a sealed container with moisture absorbent material can prolong the storage time to a certain extent bad storage conditions may cause the lead frames to corrode or degradation of LED characteristics. It is recommended that the LEDs be used as soon as possible.

2、Static Electricity

Static electricity of surge voltage damages the LED .Damaged LED will show some unusual chrematistics such as the forward voltage becomes lower or the LED do not light at the low current even not light. All devices equipment and machinery must be properly grounded. At the same time, it is recommended that wrist Bands