

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: GCS08012BYG21-4.0

Sending Date:

送样日期: \_\_\_\_\_

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



## 1、Description:

1. 20.32mm (0.8" ) Single digital displays series
2. Yellow green emitting, common anode , gray face and white segment
3. low power consumption, long life span
4. Complied With RoHS Directive

## 2、Purpose:

It is widely used in all kinds of household appliances, instruments and meters.

## 3、Absolute Maximum Ratings (Temperature=25°C):

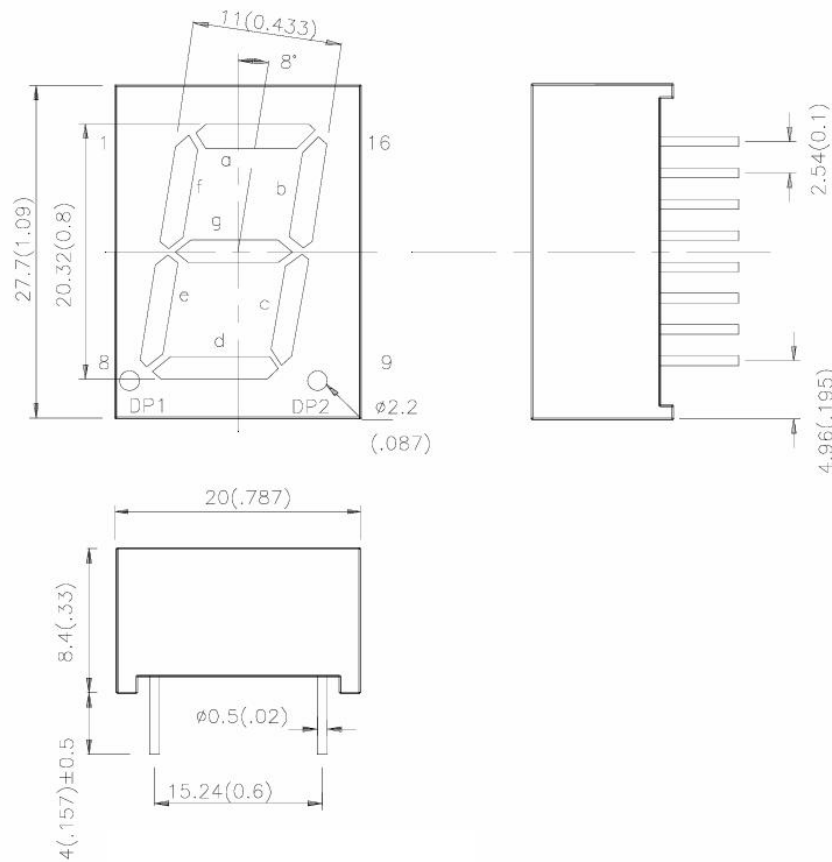
| Parameter             | Symbol            | Rating    | Unit |
|-----------------------|-------------------|-----------|------|
| Forward Current       | $I_{FM}/seg$      | 20        | mA   |
| Reverse Voltage       | $V_{RM}/seg$      | 5         | V    |
| Operating Temperature | $T_{OPR}$         | -25 ~ +60 | °C   |
| Storage Temperature   | $T_{stg}$         | -25 ~ +85 | °C   |
| Pulse Forward Current | $I_{FM (IM)}/seg$ | 60        | mA   |

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

## 4、Electro-Optical Characteristics (Temperature=25°C):

| Parameter                    | Symbol          | Condition  | Min. | Typ. | Max. | Unit    |
|------------------------------|-----------------|------------|------|------|------|---------|
| Reverse Current              | $I_R$           | $V_R=5V$   | ---  | ---  | 10   | $\mu A$ |
| Forward Voltage              | $V_F$           | $I_F=20mA$ | 2.0  | 2.2  | 2.4  | V       |
| Peak Wavelength              | $\lambda_P$     |            | ---  | 573  | ---  | nm      |
| Dominant Wavelength          | $\lambda_d$     |            |      | 569  |      | nm      |
| Spectrum Radiation Bandwidth | $\Delta\lambda$ |            | ---  | 20   | ---  | nm      |
| Luminous Intensity           | $I_V$           |            | 65   | 70   | 75   | mcd     |

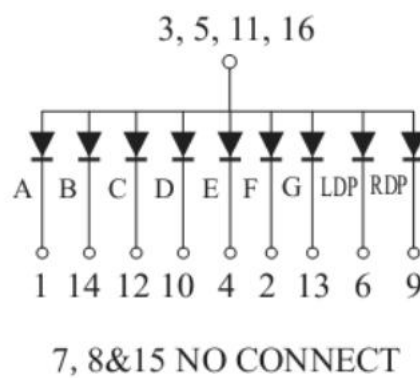
## 5、Outline Dimension:



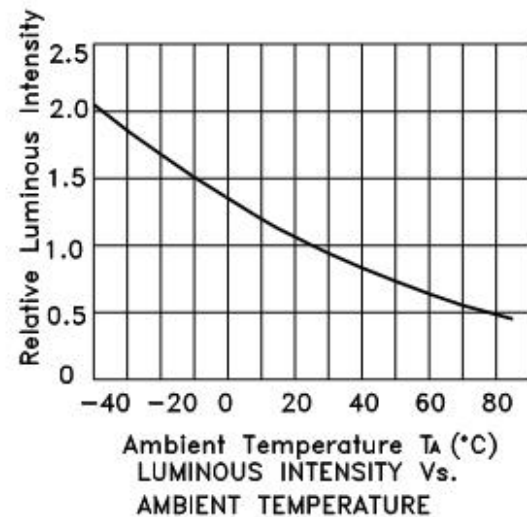
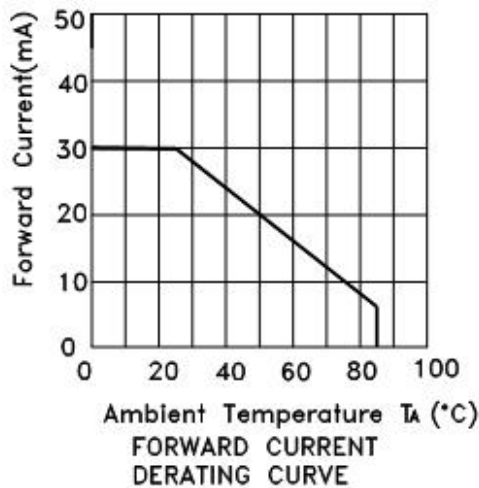
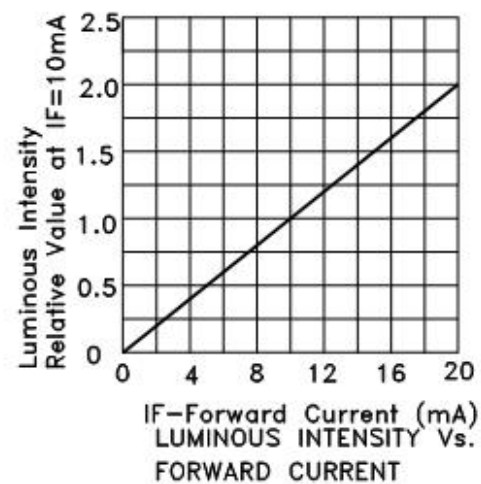
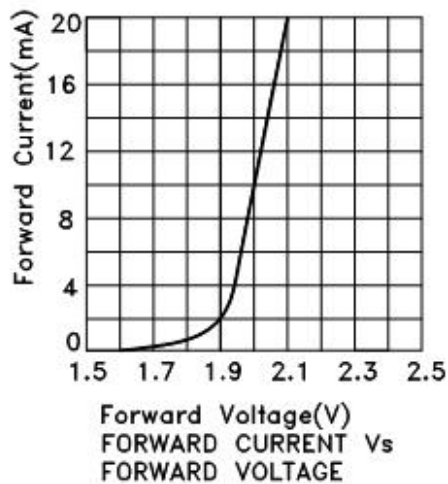
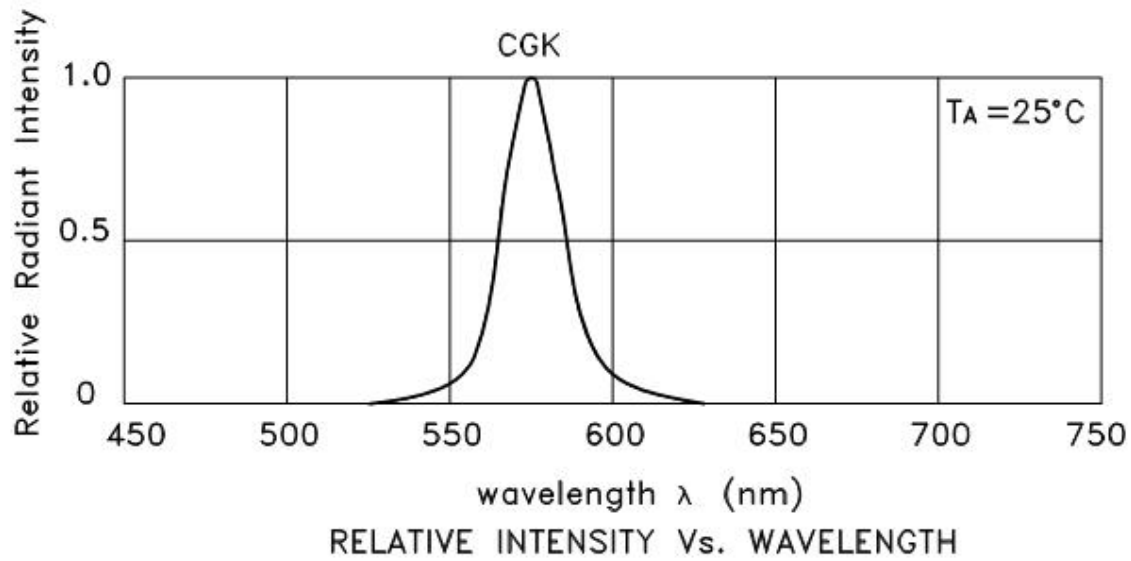
lerance :  $\pm 0.25$

Unit : mm

## 6、Circuit Diagram:



## 7、Typical Characteristics Curves:



## 8、Precautions:

- ✧ Static electricity: This product is based on LED design, LED is sensitive to static electricity, static electricity and surge will cause LED characteristics to change, such as forward voltage reduction, etc., if the situation is serious, or even destroy products. So do not touch the pin directly. When installing or using, the relevant equipment and machine should be properly grounded, and other measures must be taken to prevent static electricity and surge. The use of antistatic bracelets, anti-static mats, antistatic work clothes, working shoes, gloves and anti-static containers are effective measures to prevent static electricity and surge.
- ✧ Storage: attention should be paid to preservation. If the preservation condition is not good, the adhesion force between the reflecting film and the reflecting cavity will be reduced. The recommended storage conditions are: temperature ( $25 \pm 10$ ), humidity ( $65 \pm 20$ )%RH.
- ✧ Welding: the welding temperature is 260 and 5 C, the welding time is less than 3 seconds, the welding power is less than 30W, and the welding point should be more than 1.6mm.