

# Ningbo Junsheng Electronics Co.,LTD.

## 产品承认书

### PRODUCT APPROVED

(CUSTOMERS) \_\_\_\_\_

(CUSTOMER P/N) \_\_\_\_\_

(PART NUMBER) JSS-2040AXX

(DESCRIPTION) 0.2 inch common cathode 4 digit smd display

(SAMPLE DATE) \_\_\_\_\_

| Specification | INSPECTION   | SAMPLE         | OTHERS        |
|---------------|--------------|----------------|---------------|
| (APPROVED BY) | (CHECKED BY) | (PROOFREAD BY) | (PREPARED BY) |
|               |              |                |               |

| Version | Date | Description | Maker |
|---------|------|-------------|-------|
|         |      |             |       |
|         |      |             |       |
|         |      |             |       |

### (CUSTOMER VERDICT)

|      |                          |      |                          |
|------|--------------------------|------|--------------------------|
| (OK) | <input type="checkbox"/> | (NG) | <input type="checkbox"/> |
|------|--------------------------|------|--------------------------|

(APPROVED BY):

(APPROVED DATE):

(IMPROVED ADVICE):

**REMARK:** FOR OFFERING THE BEST SERVICE TO CUSTOMER, PLEASE FAX THE DATA TO FACTORY  
IN TIME

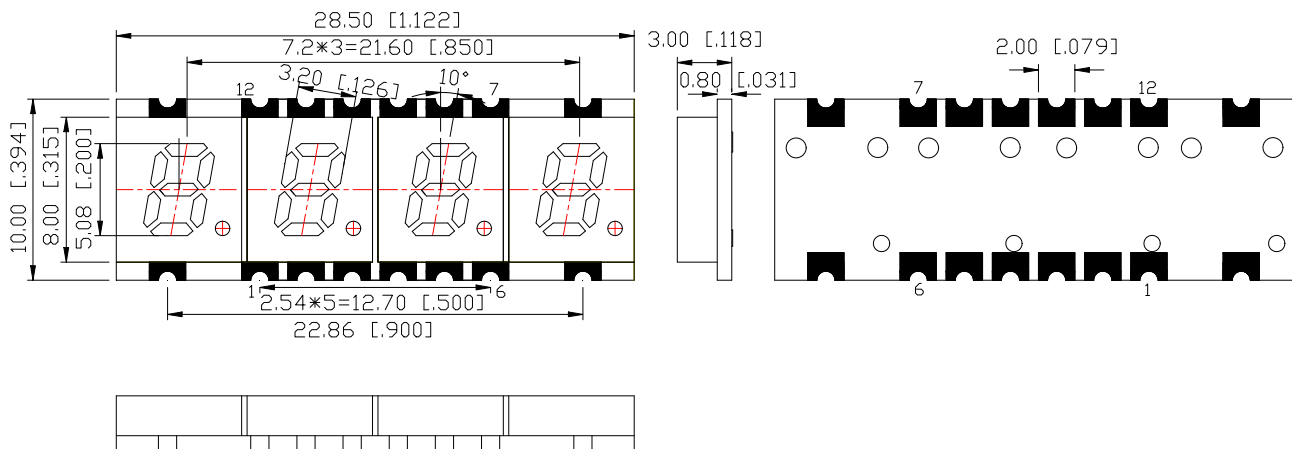
## 1.DESRIPTION:

- Gray face, White Epoxy
- Common Cathode
- Various Emiting ColorColor
- RoHS Compliant

## 2.FEATURES:

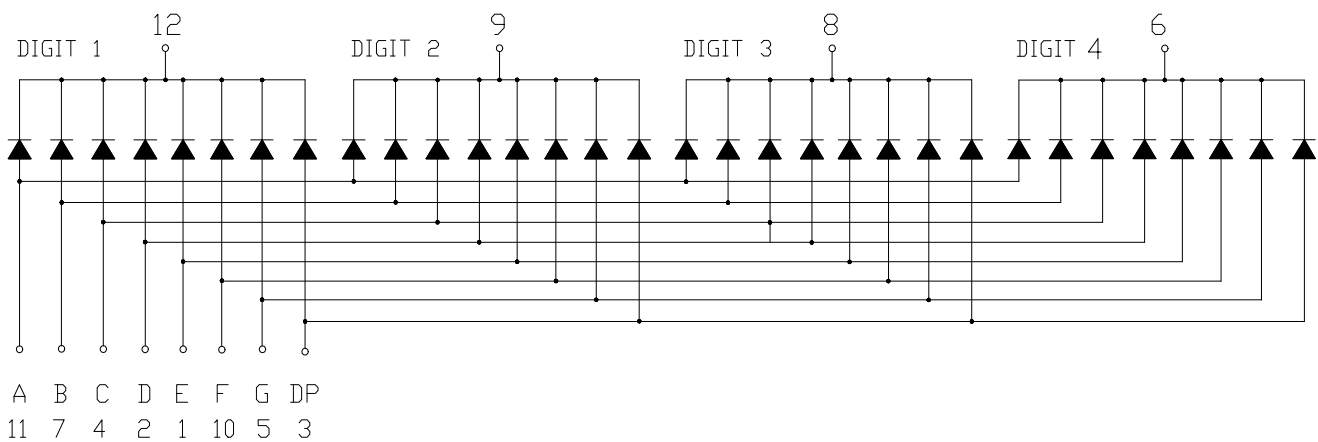
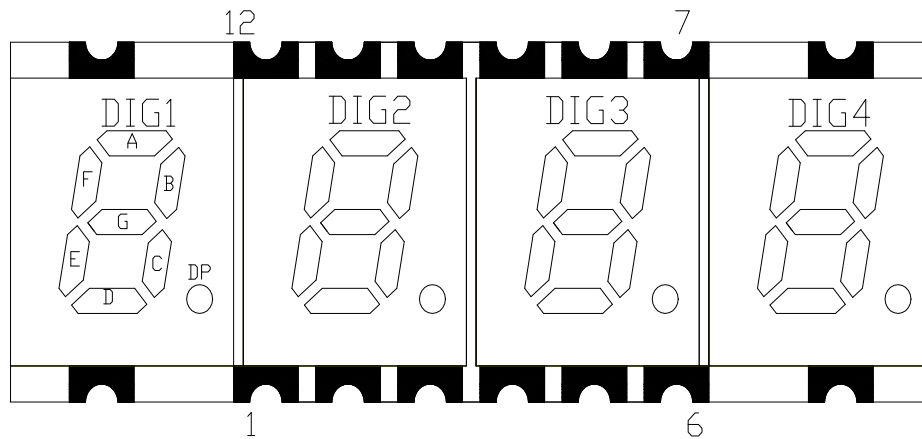
- High intensity and reliability
- High quality, Low power requirement
- IC compatible , Easy assembly
- ESD1000V

## 3.PACKAGE DIMENSION:



NOTES: All dimensions are in millimeters (inches) tolerance are  $\pm 0.25\text{mm}(0.010)$  unless otherwise noted

## 4.INTERNAL CIRCUIT DIAGRAM



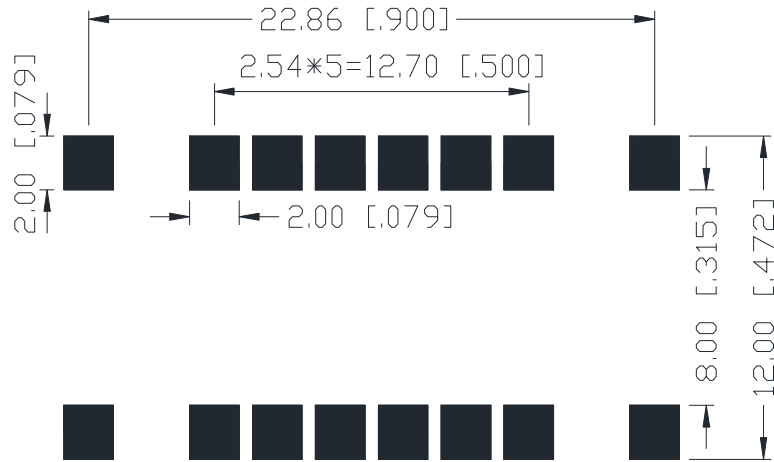
## 5.ABSOLUTE MAXIMUM RATINGS AT T<sub>a</sub>=25°C:

| Items                      | Symbol | Absolute maximum Rating                                             | Unit |
|----------------------------|--------|---------------------------------------------------------------------|------|
| Forward Current(DC)        | IF     | 20                                                                  | mA   |
| Power Dissipation          | W      | 60                                                                  | Mw   |
| Peak Forward Current*      | IFP    | 100                                                                 | mA   |
| Reverse Voltage            | VR     | 5                                                                   | V    |
| Operation Temperature      | Topr   | -40+85                                                              | °C   |
| Storage Temperature        | Tstg   | -40+100                                                             | °C   |
| Lead Soldering Temperature | Tsol   | Max .260 °C for 3 sec Max.<br>(3mm from the base of the epoxy bulb) |      |

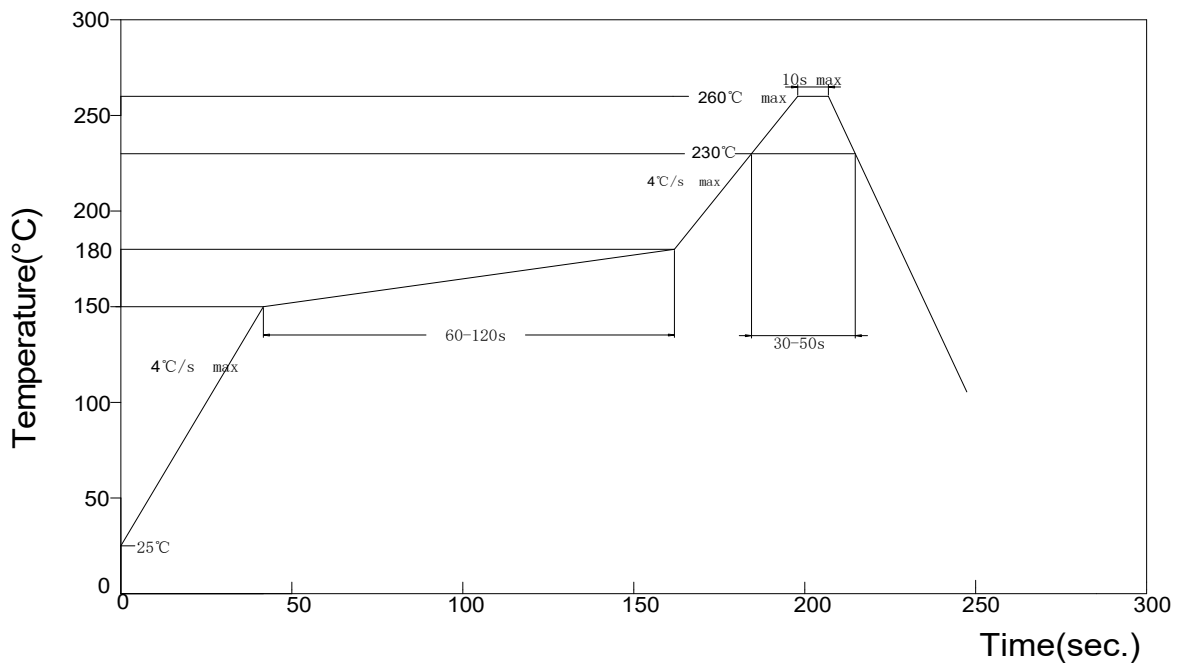
## 6.ELECTRICAL/OPTICAL CHARACTERISTICS AT T<sub>a</sub>=25°C:

| Part No        | Emitting Color | Chip Material | Forward Voltage<br>( V ) |     | Luminous Intensity<br>(mcd) |     | Peak Wave Length(λP)<br>nm |     |
|----------------|----------------|---------------|--------------------------|-----|-----------------------------|-----|----------------------------|-----|
|                |                |               | IF=10mA                  |     |                             |     |                            |     |
| Common Cathode |                |               | Typ                      | Max | Min                         | Typ | Typ                        | Max |
| JSS-2040AUR-21 | Ultra Red      | AlGaInP       | 2.0                      | 2.5 | 20                          | 40  | 630                        | 640 |
| JSS-2040ASR-21 | Super Red      | AlGaInP       | 2.0                      | 2.5 | 40                          | 80  | 620                        | 625 |
| JSS-2040AUY-21 | Yellow         | AlGaInP       | 2.0                      | 2.5 | 40                          | 60  | 585                        | 595 |
| JSS-2040AUG-21 | Green          | AlGaInP       | 2.0                      | 2.5 | 10                          | 20  | 570                        | 575 |
| JSS-2040AUA-21 | Amber          | AlGaInP       | 2.0                      | 2.5 | 40                          | 60  | 600                        | 610 |
| JSS-2040AUB-21 | Blue           | InGan         | 3.0                      | 3.5 | 40                          | 60  | 460                        | 470 |
| JSS-2040APG-21 | Pure Green     | InGan         | 3.0                      | 3.5 | 80                          | 150 | 520                        | 525 |

## 7.Recommended Soldering Pattern:



## 8、推荐的 SMT 焊接曲线 Recommended SMT condition:



### 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.

