

Ningbo Junsheng Electronics Co.,LTD.

|                    |              |                                             |                          |
|--------------------|--------------|---------------------------------------------|--------------------------|
| 产品承认书              |              |                                             |                          |
| PRODUCT APPROVED   |              |                                             |                          |
| (CUSTOMERS)        |              | _____                                       |                          |
| (CUSTOMER P/N)     |              | _____                                       |                          |
| (PART NUMBER)      |              | JSS-5130Bxx                                 |                          |
| (DESCRIPTION)      |              | 0.51 inch common anode 3 digits 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

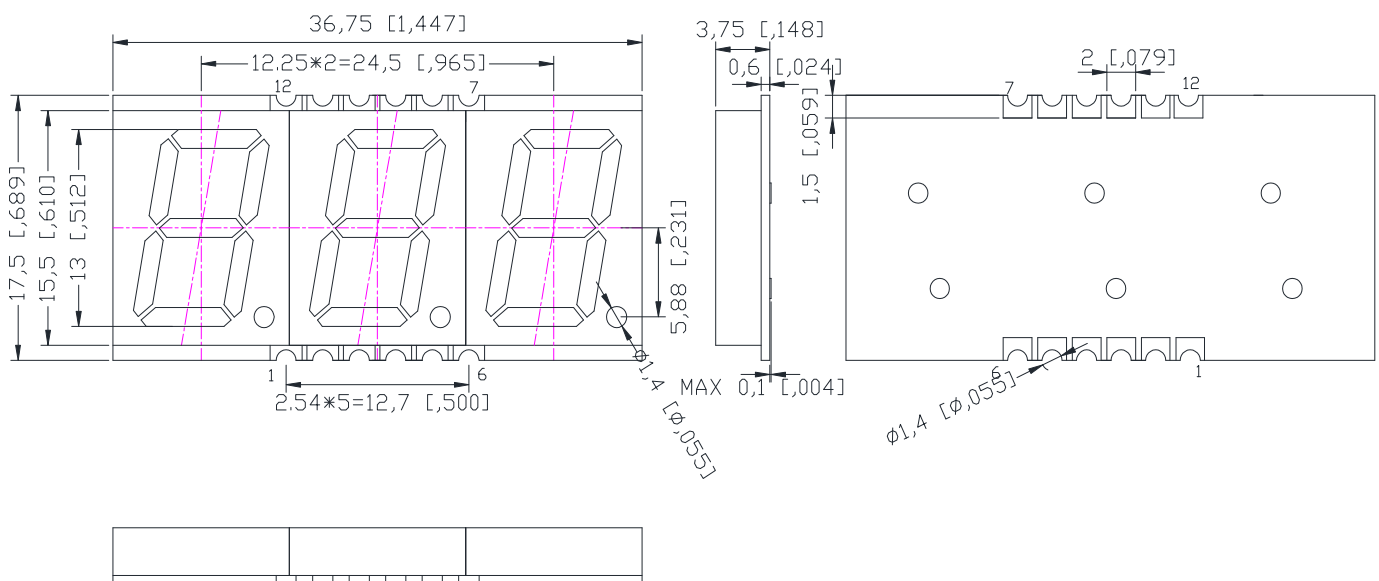
### 1.DESCRPTION:

- Gray face, White Epoxy
- Common anode
- Various Emitting ColorColor
- RoHS Compliant

## 2.FEATURES:

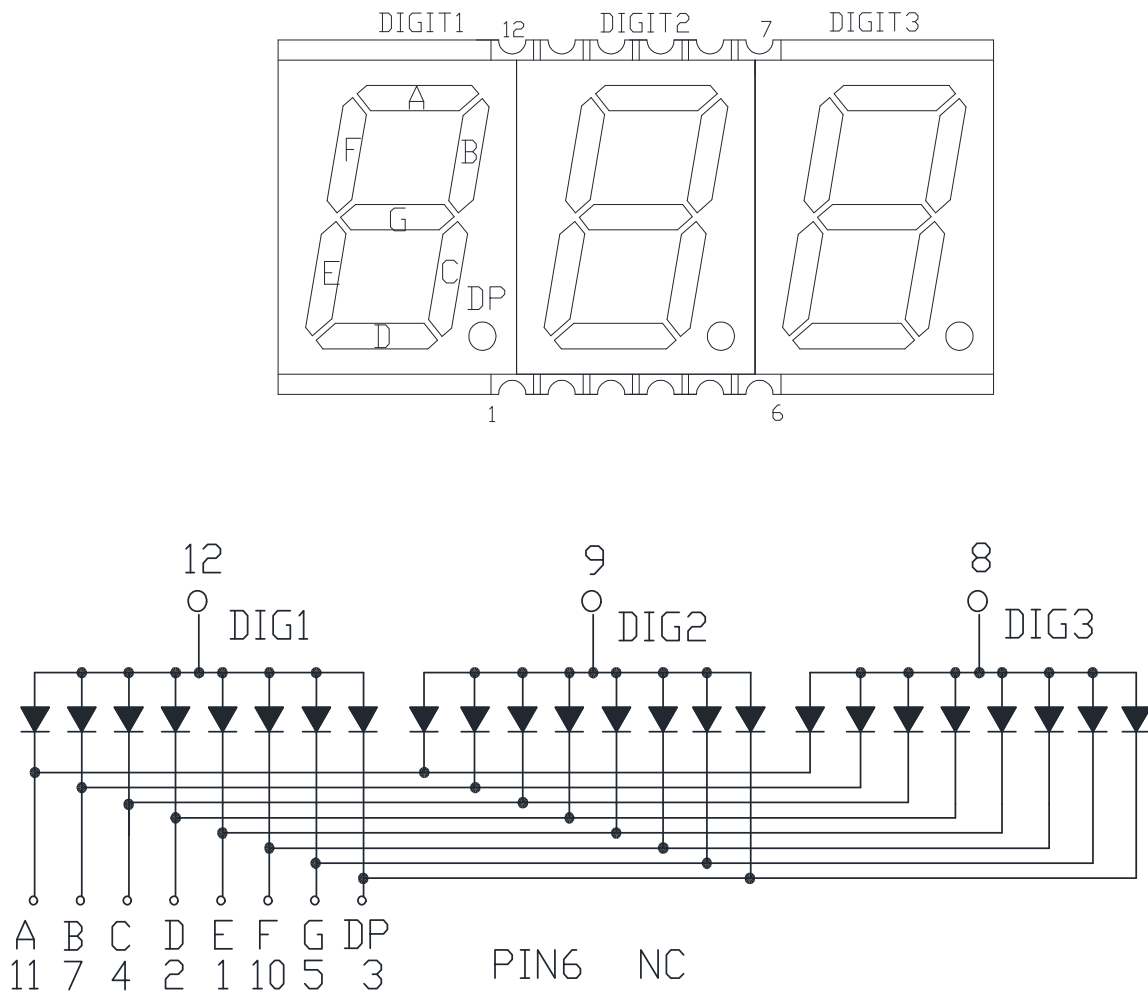
- High intensity and reliability
- High quality, Low power requirement
- IC compatible , Easy assembly
- ESD1000V

### 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



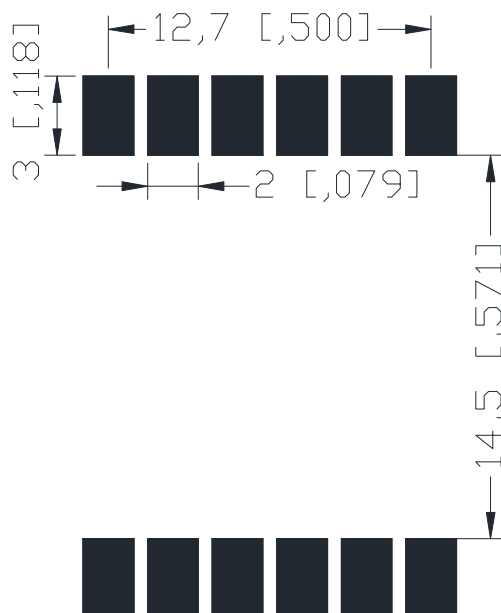
## 5.ABSOLUTE MAXIMUM RATINGS AT T<sub>a</sub>=25°C:

| 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) |      |

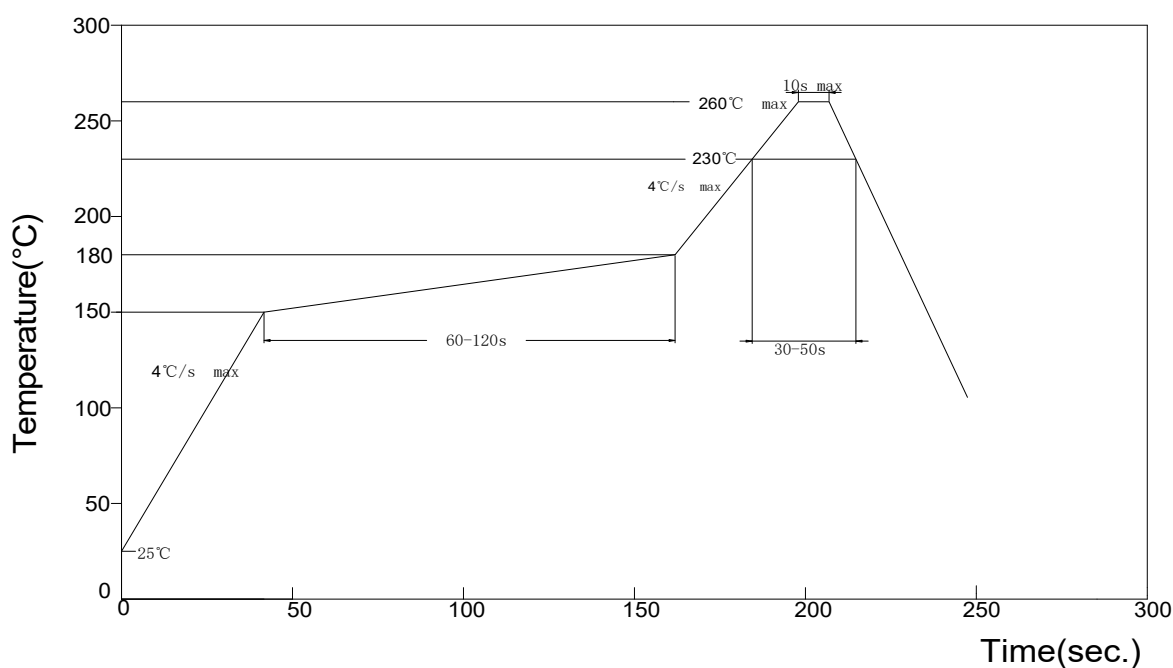
## 6.ELECTRICAL/OPTICAL CHARACTERISTICS AT T<sub>a</sub>=25°C:

| Part No        | Emitting Color | Chip Material | Forward Voltage<br>( V ) |     | Luminous Intensity<br>(mcd) |     | Peak Wave Length(λP)<br>nm |     |
|----------------|----------------|---------------|--------------------------|-----|-----------------------------|-----|----------------------------|-----|
|                |                |               | IF=10mA                  |     |                             |     |                            |     |
|                |                |               | Typ                      | Max | Min                         | Typ | Typ                        | Max |
| Common Anode   |                |               |                          |     |                             |     |                            |     |
| JSS-5131BUR-21 | Ultra Red      | AlGaInP       | 2.0                      | 2.5 | 20                          | 40  | 630                        | 640 |
| JSS-5131BSR-21 | Super Red      | AlGaInP       | 2.0                      | 2.5 | 40                          | 80  | 620                        | 625 |
| JSS-5131BUY-21 | Yellow         | AlGaInP       | 2.0                      | 2.5 | 40                          | 60  | 585                        | 595 |
| JSS-5131BUG-21 | Green          | AlGaInP       | 2.0                      | 2.5 | 10                          | 20  | 570                        | 575 |
| JSS-5131BUA-21 | Amber          | AlGaInP       | 2.0                      | 2.5 | 40                          | 60  | 600                        | 610 |
| JSS-5131BUB-21 | Blue           | InGan         | 3.0                      | 3.5 | 40                          | 60  | 460                        | 470 |
| JSS-5131BPG-21 | Pure Green     | InGan         | 3.0                      | 3.5 | 80                          | 150 | 520                        | 525 |
| JSS-5131BUW-21 | White          | InGan         | 3.0                      | 3.5 | 100                         | 200 | X0.30/Y0.30                |     |

## 7.Recommended Soldering Pattern:



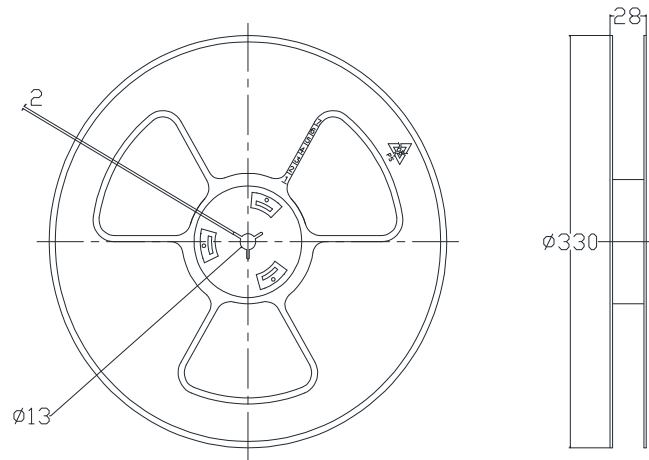
## 8、推荐的 SMT 焊接曲线 Recommended SMT condition:



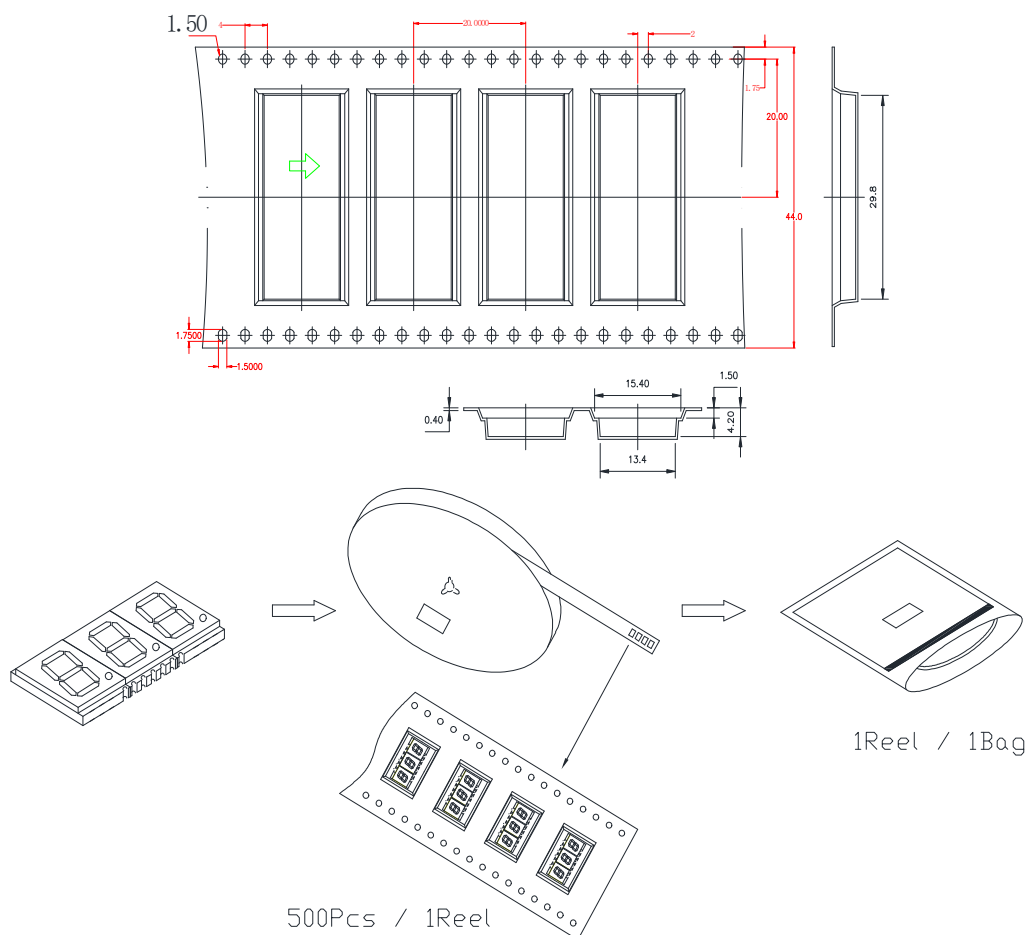
### NOTES:

- 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.

## 9.Reel Dimensions:



## 10.Packing and Lable Specifications:



Note: The specifications are subject to change without notice. Please contact us for updated information.