

## 新品承认书

### NEW PRODUCT APPROVED

客户名称 (CUSTOMERS) \_\_\_\_\_

客户 P/N (CUSTOMER P/N) \_\_\_\_\_

升谱 P/N (SUNPU P/N) \_\_\_\_\_ NEPS-2821AR-G

产品说明 (DESCRIPTION) 0.28 英寸双八 共阳 红色显示

送样日期 (SAMPLE DATE) \_\_\_\_\_

|                        |                                     |                    |                          |                   |                          |                  |                          |
|------------------------|-------------------------------------|--------------------|--------------------------|-------------------|--------------------------|------------------|--------------------------|
| 产品说明书<br>Specification | <input checked="" type="checkbox"/> | 检验报告<br>INSPECTION | <input type="checkbox"/> | 样品<br>SAMPLE      | <input type="checkbox"/> | 其它<br>OTHERS     | <input type="checkbox"/> |
| 核准 (APPROVED BY)       |                                     | 审核 (CHECKED BY)    |                          | 校对 (PROOFREAD BY) |                          | 制作 (PREPARED BY) |                          |
|                        |                                     |                    |                          |                   |                          |                  |                          |

#### 更改履历表

| 版本 Version | 日期 date | 描述 | 编制 Maker |
|------------|---------|----|----------|
|            |         |    |          |
|            |         |    |          |
|            |         |    |          |

#### 客 户 判 定 结 果 (CUSTOMER VERDICT)

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

承认签名 (APPROVED BY):

承认时间 (APPROVED DATE):

改善意见 (IMPROVED ADVICE):

说明: 为了能更好的服务客户, 请及时回传以上信息

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

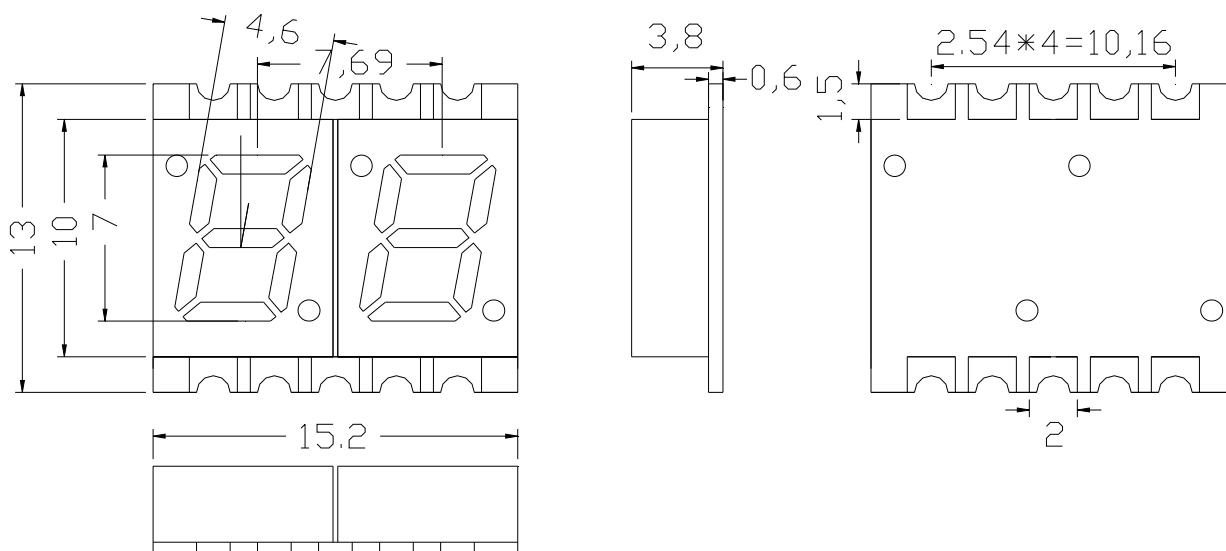
IN TIME

**1. 产品描述 DESCRIPTION:**

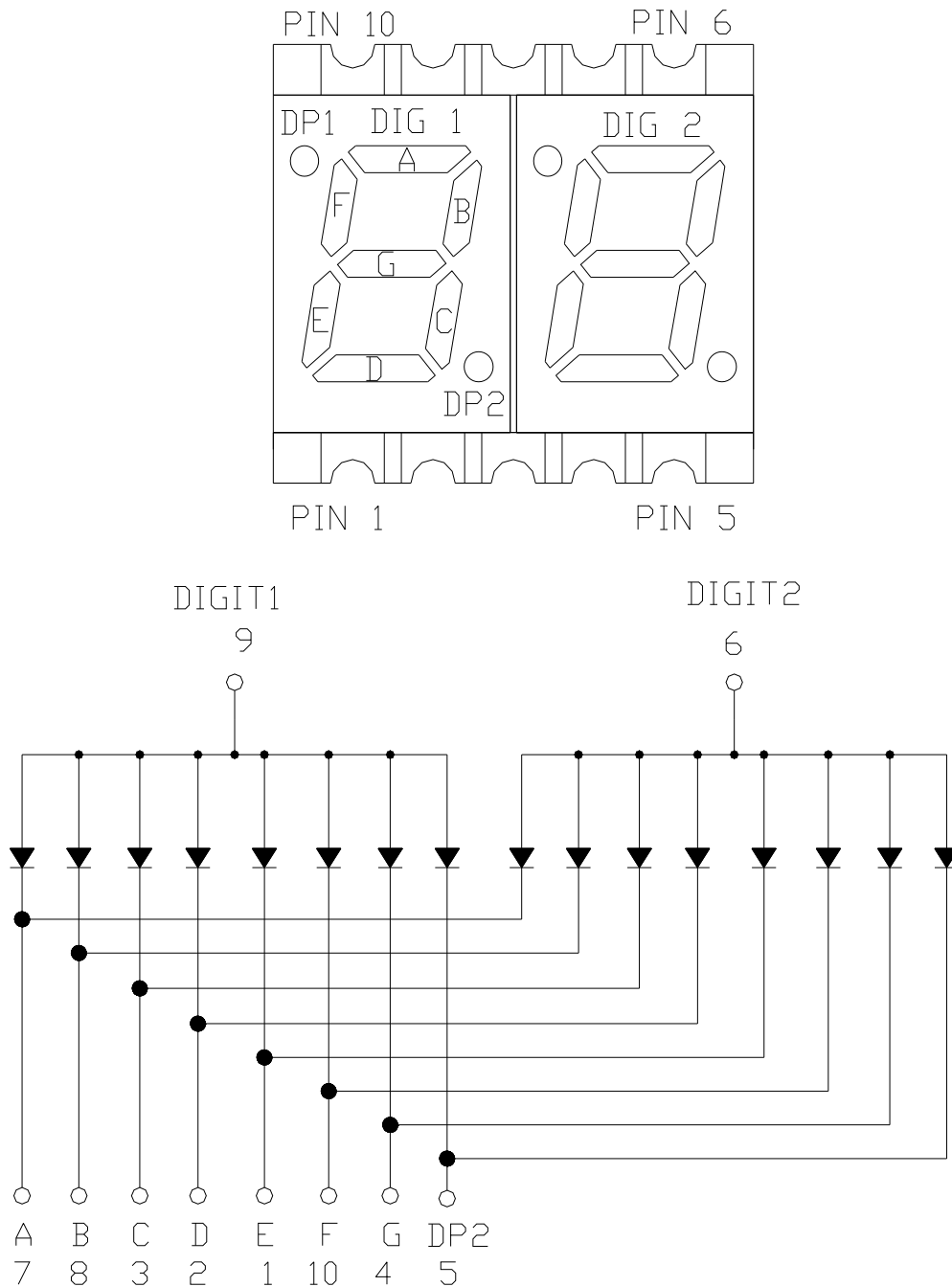
- 灰色显示面, 白色笔段 Gray face, White Epoxy
- 共阳显示屏 Common Anode Display
- 红色显示, Red Color
- 符合 RoHS 要求 RoHS Compliant

**2. 产品特征 FEATURES:**

- 高可靠性和高稳定性 High intensity and reliability
- 高品质、和低功耗 High quality, Low power requirement
- IC 易兼容, 易装配 IC compatible , Easy assembly
- ESD1000V

**3. 产品外形尺寸 Outer Dimension:**备注: 未标注公差尺寸均为 $\pm 0.25\text{mm}$ NOTES: All dimensions are in millimeters (inches) tolerance are  $\pm 0.25\text{mm}(0.010)$  unless otherwise noted

#### 4. 产品线路图 INTERNAL CIRCUIT DIAGRAM



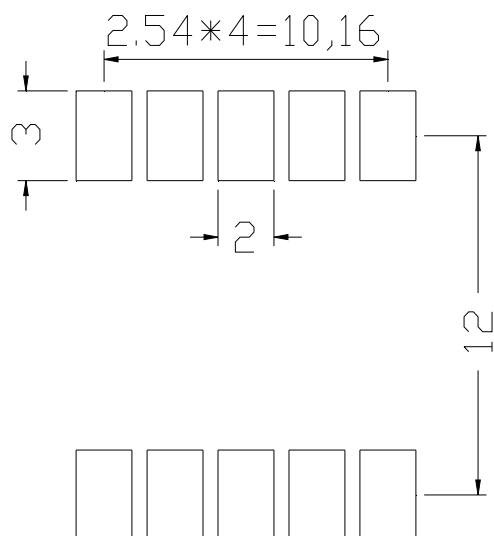
## 5、产品最大绝对参数值 (Ta: 25°C) ABSOLUTE MAXIMUM RATINGS AT Ta=25°C:

| 参数 (PARAMETER)                                                                | 最大值 Max.         | 单位 UNIT |
|-------------------------------------------------------------------------------|------------------|---------|
| 每段功耗 Power Dissipation Per Segment                                            | 52               | mW      |
| 每段峰值电流 Peak Forward Current Per Segment<br>(1/10duty cycle 0.1ms pulse width) | 100              | mA      |
| 每段平均正向电流 Average Forward Current Per Segment                                  | 20               | mA      |
| 从室温线性减少 Derating Linear From 25°C Per Segment                                 | 0.33             | mA/°C   |
| 每段反向电压 Reverse Voltage Per Segment                                            | 5                | V       |
| 工作条件温度 Operating Temperature Range                                            | -40°C to + 105°C |         |
| 储存温度 Storage Temperature Range                                                | -40°C to + 105°C |         |
| 距离胶体 1.6mm 焊接, 温度 260°C, 焊接时间最多 3 秒                                           |                  |         |
| Lead Soldering Temperature 260°C at 1.6mm From Body for 3 seconds             |                  |         |

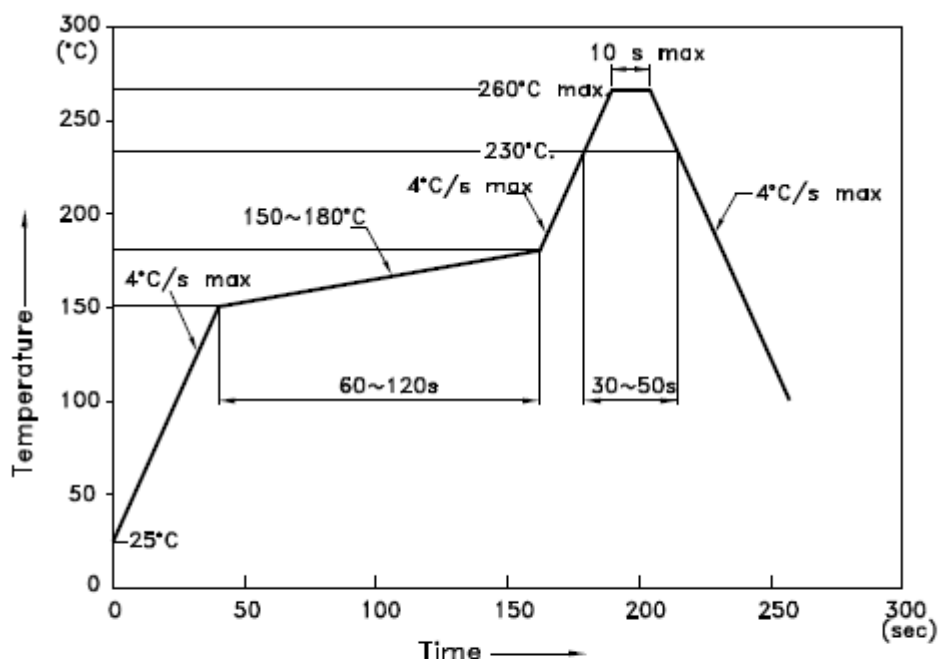
## 6、产品光电参数值 (Ta: 25°C) ELECTRICAL/OPTICAL CHARACTERISTICS AT Ta=25°C:

| 参数<br>PARAMETER                     | 符号<br>SYMBOL    | MIN. | TYP.       | MAX.       | UNIT                      | 测试条件<br>Test condition       |
|-------------------------------------|-----------------|------|------------|------------|---------------------------|------------------------------|
| 每段亮度 Luminous Intensity Per Segment | $I_v$           | —    | <b>3</b>   | —          | <b>mcd</b>                | <b><math>I_F=10mA</math></b> |
| 主波长 Dominant Wavelength             | $\lambda_d$     | —    | <b>640</b> | —          | <b>nm</b>                 | <b><math>I_F=20mA</math></b> |
| 光谱半宽度 Spectral Line Half-Width      | $\Delta\lambda$ | —    | <b>30</b>  | —          | <b>nm</b>                 | <b><math>I_F=20mA</math></b> |
| 每颗正向电压 Forward Voltage Per Dice     | $V_F$           | —    | <b>2.0</b> | <b>2.6</b> | <b>V</b>                  | <b><math>I_F=20mA</math></b> |
| 每颗反向电流 Reverse Current Per Dice     | $I_R$           | —    | —          | <b>50</b>  | <b><math>\mu A</math></b> | <b><math>V_R=5V</math></b>   |

## 7、推荐使用的焊盘尺寸 Recommended Soldering Pattern:



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



NOTES:

1. We recommend the reflow temperature  $245^{\circ}\text{C} (+/-5^{\circ}\text{C})$ . The maximum soldering temperature should be limited to  $260^{\circ}\text{C}$ .
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.