规 格(承 认) 书
Specification for approval

※ 方舟 P/N (ARKLED P/N): SR820361/SR810361
※ 客户 P/N (CUSTOMER P/N): ________________
※ 产品说明 (DESCRIPTION):
  1. 0.36 inch (9.2mm) Digit Height
  2. Four Digits Numeric LED Display
  3. Green
※ 日期 (DATE): 2012-5-22
FEATURES

- High intensity and reliability
- High quality, Low power requirement and low cost
- IC compatible, Easy assembly
- Meet RoHS EU Directive

DESCRIPTION

- The device of this 0.36 inch numeric LED display is made of 3 elements (InGaN) material, designed for viewing distance up to 7 meters.
- It can be used in audio equipment, instruments, numeric read out display and so on.
- Standard appearance color is black or grey face and white segment.

Selection Guide

<table>
<thead>
<tr>
<th>Part No. CC(^1)</th>
<th>Part No. CA(^2)</th>
<th>Dice</th>
<th>Iv(mcd)(^3)@20mA</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR820361</td>
<td>SR810361</td>
<td>Green (InGaN)</td>
<td>Min. 120 Typ. 300</td>
</tr>
</tbody>
</table>

Note:
1. CC is Common Cathode.
2. CA is Common Anode.
3. Luminous intensity/ luminous Flux: +/-15%.
### ABSOLUTE MAXIMUM RATINGS AT Ta=25°C

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>SYMBOL</th>
<th>Green</th>
<th>UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Dissipation Per Segment</td>
<td>PAD</td>
<td>120</td>
<td>mw</td>
</tr>
<tr>
<td>Reverse Voltage Per Segment</td>
<td>VR</td>
<td>5</td>
<td>V</td>
</tr>
<tr>
<td>Continuous Forward Current Per Segment</td>
<td>IAF</td>
<td>30</td>
<td>mA</td>
</tr>
<tr>
<td>Peak Forward Current Per Segment(Duty-0.1,1KHz)</td>
<td>IPF</td>
<td>200</td>
<td>mA</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>TOPr</td>
<td>-20°C to 80°C</td>
<td></td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>Tstg</td>
<td>-30°C to 85°C</td>
<td></td>
</tr>
</tbody>
</table>

Lead Soldering Temperature 260°C at 1.6mm From Body for 3 second

### ELECTRICAL/OPTICAL CHARACTERISTICS AT Ta=25°C

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>SYMBOL</th>
<th>TEST CONDITION</th>
<th>Color</th>
<th>TYP</th>
<th>MAX</th>
<th>UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward Voltage ,Per Segment</td>
<td>VF</td>
<td>IF=20mA</td>
<td>Green</td>
<td>3.5</td>
<td>4.0</td>
<td>V</td>
</tr>
<tr>
<td>Reverse Current , Per Segment</td>
<td>IR</td>
<td>VR=5V</td>
<td>Green</td>
<td>50</td>
<td></td>
<td>µA</td>
</tr>
<tr>
<td>Peak Emission Wavelength</td>
<td>λp</td>
<td>IF=20mA</td>
<td>Green</td>
<td>525</td>
<td></td>
<td>nm</td>
</tr>
</tbody>
</table>
Package Dimensions and Internal Circuit Diagram

NOTES:  
1. all dimensions are in millimeters. (Inches)  
2. Tolerance is ± 0.25(0.010") unless otherwise specified.
Typical Electrical-Optical Characteristics Curves

1. **Forward Current Vs Forward Voltage**
   - Forward Current (mA) vs Forward Voltage (V)

2. **Relative Intensity Vs Forward Current**
   - Luminous Intensity Relative Value at IF=20mA vs IF-Forward Current (mA)

3. **Forward Current Vs Environmental Temp**
   - Forward Current (mA) vs Ambient Temperature $T_{A(\circ C)}$

4. **Relative Intensity Vs Environmental Temp**
   - Relative Luminous Intensity vs Ambient Temperature $T_{A(\circ C)}$

5. **Relative Intensity Vs Wavelength**
   - Relative Luminous Intensity vs Wavelength $\lambda$ (nm)