Specification for approval

※ 方舟 P/N（ARKLED P/N）: SZ823058/SZ813058
※ 客户 P/N（CUSTOMER P/N）: ________________
※ 产品说明（DESCRIPTION）:
  1. 3.4 inch (91.2mm) Dot Height
  2. 5x8 Dot Matrix Display
  3. Green
※ 日期（DATE）: 2012-5-24
3.4 Inch Dot Matrix Display
Part No: SZ823058, SZ813058

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 3.4 inch 5x8 dot matrix display is made of 3 elements (InGaN) material, designed for viewing distance up to 15 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 dot.

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>SZ823058</td>
<td>SZ813058</td>
<td>Green (InGaN)</td>
<td>180</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>Color</th>
<th>UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Dissipation Per Dot</td>
<td>PAD</td>
<td></td>
<td>mw</td>
</tr>
<tr>
<td>Reverse Voltage Per Dot</td>
<td>VR</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>Continuous Forward Current Per Dot</td>
<td>IAF</td>
<td></td>
<td>mA</td>
</tr>
<tr>
<td>Peak Forward Current Per Dot (Duty-0.1, 1KHz)</td>
<td>IPF</td>
<td></td>
<td>mA</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>TOPr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>Tstg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lead Soldering Temperature</td>
<td></td>
<td></td>
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</tbody>
</table>

<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>
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</thead>
<tbody>
<tr>
<td>Forward Voltage, Per Dot</td>
<td>VF</td>
<td>IF=20mA</td>
<td>Green</td>
<td>7.0</td>
<td>8.0</td>
<td>V</td>
</tr>
<tr>
<td>Reverse Current, Per Dot</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>
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</tbody>
</table>
3.4 Inch Dot Matrix Display
Part No: SZ823058, SZ813058

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

- **Forward Current Vs Forward Voltage**
  - Forward Current (mA) vs Forward Voltage (V) graph

- **Relative Intensity Vs Forward Current**
  - Luminous Intensity vs IF-Forward Current (mA) graph

- **Forward Current Vs Environmental Temp**
  - Forward Current (mA) vs Ambient Temperature graph

- **Relative Intensity Vs Environmental Temp**
  - Relative Luminous Intensity vs Ambient Temperature graph

- **Relative Intensity Vs Wavelength**
  - Relative Luminous Intensity vs Wavelength graph

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3.4 Inch Dot Matrix Display
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