规范(承认)书
Specification for approval

※ 方舟 P/N (ARKLED P/N):  _SZ741257/SZ731257_
※ 客户 P/N (CUSTOMER P/N): ________________
※ 产品说明 (DESCRIPTION):
   1. 1.2 inch (31.8mm) Dot Height
   2. 5x7 Dot Matrix Display
   3. Ultra-Bright White
※ 日期 (DATE): _2012-5-25_

地址: 江苏省宜兴市张渚镇金张渚工业区宇龙路6号
FACTORY ADD: NO.6 Yulong Road, ZHANGZHU TOWN, YIXING CITY, JIANGSU PROVINCE, P.R.CHINA
Ningbo Branch:
电话 (TEL): 0086-574-86308393  传真 (FAX): 0086-574-86308392
E-mial: ark@arkled.net  网址(http): www.arkled.net
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 1.2 inch 5x7 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>SZ741257</td>
<td>SZ731257</td>
<td>Ultra-Bright White (InGaN)</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>120</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>UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Dissipation Per Dot</td>
<td>PAD</td>
<td>120 mw</td>
</tr>
<tr>
<td>Reverse Voltage Per Dot</td>
<td>VR</td>
<td>5 V</td>
</tr>
<tr>
<td>Continuous Forward Current Per Dot</td>
<td>IAF</td>
<td>30 mA</td>
</tr>
<tr>
<td>Peak Forward Current Per Dot (Duty-0.1,1KHz)</td>
<td>IPF</td>
<td>200 mA</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>TOPr</td>
<td>-20°C to 80°C</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>Tstg</td>
<td>-30°C to 85°C</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 Dot</td>
<td>VF</td>
<td>IF=20mA</td>
<td>Ultra-Bright White</td>
<td>3.5</td>
<td>4.0</td>
<td>V</td>
</tr>
<tr>
<td>Reverse Current, Per Dot</td>
<td>IR</td>
<td>VR=5V</td>
<td>Ultra-Bright White</td>
<td>50</td>
<td></td>
<td>μA</td>
</tr>
<tr>
<td>Peak Emission Wavelength</td>
<td>λp</td>
<td>IF=20mA</td>
<td>Ultra-Bright White</td>
<td></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 \( \pm 0.25(0.010") \) unless otherwise specified.
Typical Electrical-Optical Characteristics Curves

- **Forward Current Vs Forward Voltage**
- **Relative Intensity Vs Forward Current**
- **Forward Current Vs Environmental Temp**
- **Relative Intensity Vs Environmental Temp**
- **Relative Intensity Vs Wavelength**