3.5x2.8mm SURFACE MOUNT LED LAMP

Part Number: AA3528AZGC  Green

ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Features
- Single color.
- Suitable for all SMT assembly and solder process.
- Available on tape and reel.
- Ideal for backlighting.
- Package: 1500pcs/reel.
- RoHS compliant.

Description
The Green source color devices are made with InGaN on Sapphire Light Emitting Diode.
Static electricity and surge damage the LEDs.
It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.
All devices, equipment and machinery must be electrically grounded.

Package Dimensions

Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Specifications are subject to change without notice.
4. The device has a single mounting surface. The device must be mounted according to the specifications.
## Selection Guide

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Dice</th>
<th>Lens Type</th>
<th>Ⅰv (mcd) [2] @ 20mA</th>
<th>Viewing Angle [1]</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA3528AZGC</td>
<td>Green (InGaN)</td>
<td>WATER CLEAR</td>
<td>380</td>
<td>600</td>
</tr>
</tbody>
</table>

Notes:
1. Ⅰv/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. Luminous intensity/ luminous Flux: +/-15%.

## Electrical / Optical Characteristics at TA=25°C

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Parameter</th>
<th>Device</th>
<th>Typ.</th>
<th>Max.</th>
<th>Units</th>
<th>Test Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>λpeak</td>
<td>Peak Wavelength</td>
<td>Green</td>
<td>515</td>
<td>nm</td>
<td></td>
<td>If=20mA</td>
</tr>
<tr>
<td>λD [1]</td>
<td>Dominant Wavelength</td>
<td>Green</td>
<td>525</td>
<td>nm</td>
<td></td>
<td>If=20mA</td>
</tr>
<tr>
<td>Δλ1/2</td>
<td>Spectral Line Half-width</td>
<td>Green</td>
<td>30</td>
<td>nm</td>
<td></td>
<td>If=20mA</td>
</tr>
<tr>
<td>C</td>
<td>Capacitance</td>
<td>Green</td>
<td>45</td>
<td>pF</td>
<td></td>
<td>Vf=0V,f=1MHz</td>
</tr>
<tr>
<td>Vf [2]</td>
<td>Forward Voltage</td>
<td>Green</td>
<td>3.3</td>
<td>4.1</td>
<td>V</td>
<td>If=20mA</td>
</tr>
<tr>
<td>Ir</td>
<td>Reverse Voltage</td>
<td>Green</td>
<td>10</td>
<td>uA</td>
<td></td>
<td>Vr=5V</td>
</tr>
</tbody>
</table>

Notes:
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

## Absolute Maximum Ratings at TA=25°C

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Green</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power dissipation</td>
<td>123</td>
<td>mW</td>
</tr>
<tr>
<td>DC Forward Current</td>
<td>30</td>
<td>mA</td>
</tr>
<tr>
<td>Peak Forward Current [1]</td>
<td>150</td>
<td>mA</td>
</tr>
<tr>
<td>Reverse Voltage</td>
<td>5</td>
<td>V</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C To +85°C</td>
<td></td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40°C To +85°C</td>
<td></td>
</tr>
</tbody>
</table>

Note:
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
Green AA3528AZGC

Graphs showing:
- Relative Intensity vs. Wavelength
- Forward Current vs Forward Voltage
- Luminous Intensity vs. Forward Current
- Ambient Temperature vs. Forward Current
- Spatial Distribution
Reflow soldering is recommended and the soldering profile is shown below.
Other soldering methods are not recommended as they might cause damage to the product.

Recommended Soldering Pattern
(Units : mm; Tolerance: ± 0.1)

Tape Dimensions
(Units : mm)
PACKING & LABEL SPECIFICATIONS

USER DIRECTION OF FEED

LABEL

LABEL

1,500pcs / Reel

1 Reel / Bag

OUTSIDE LABEL

OUTSIDE LABEL

Kingbright

30K / 56# Box

1SK / 55# Box

Kingbright

P/N: AA3528Ax

QTY: 1,500 pcs  O.C.

S/N: XXXX

CODE: XXX

LOT NO:

RoHS Compliant