1.6x0.6mm RIGHT ANGLE SMD CHIP LED LAMP

Part Number: APA1606SECK

Super Bright Orange

Features

- 1.6mmx0.6mm right angle SMT LED,1.2mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package :2000pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

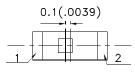
Description

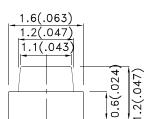
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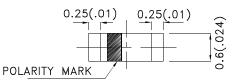
1 -

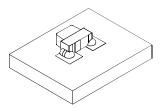
The Super Bright Orange device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

Package Dimensions









Notes:

All dimensions are in millimeters (inches).
Tolerance is ±0.1(0.004") unless otherwise noted.

The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
The device has a single mounting surface. The device must be mounted according to the specifications.

REV NO: V.11A CHECKED: Allen Liu DATE: APR/22/2015 DRAWN:Q.M.Chen

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Salaatian Cuida

| Selection Guide | | | | | |
|-----------------|-------------------------------|-------------|------------------------|------|----------------------|
| Part No. | Dice Lens Type | | lv (mcd) [2] @ 20mA | | Viewing Angle [1] |
| | | | Min. | Тур. | 201/2 |
| APA1606SECK | Super Bright Orange (AlGaInP) | Water Clear | 110 | 250 | 110° |
| | | | *80 | *180 | |

Notes:

1. θ 1 / 2 is the angle from optical centerline where the luminous intensity is 1 / 2 of the optical peak value.

Luminous intensity / luminous Flux: + / -15%.
* Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

| Symbol | Parameter | Device | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|---------------------|------|------|-------|-----------------|
| λpeak | Peak Wavelength | Super Bright Orange | 610 | | nm | I⊧=20mA |
| λD [1] | Dominant Wavelength | Super Bright Orange | 601 | | nm | IF=20mA |
| Δλ1/2 | Spectral Line Half-width | Super Bright Orange | 29 | | nm | IF=20mA |
| С | Capacitance | Super Bright Orange | 15 | | pF | VF=0V;f=1MHz |
| Vf [2] | Forward Voltage | Super Bright Orange | 2.1 | 2.5 | V | IF=20mA |
| lr | Reverse Current | Super Bright Orange | | 10 | uA | VR=5V |

Notes:

1. Wavelength: + / -1nm.

2. Forward Voltage: + / -0.1V.

3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

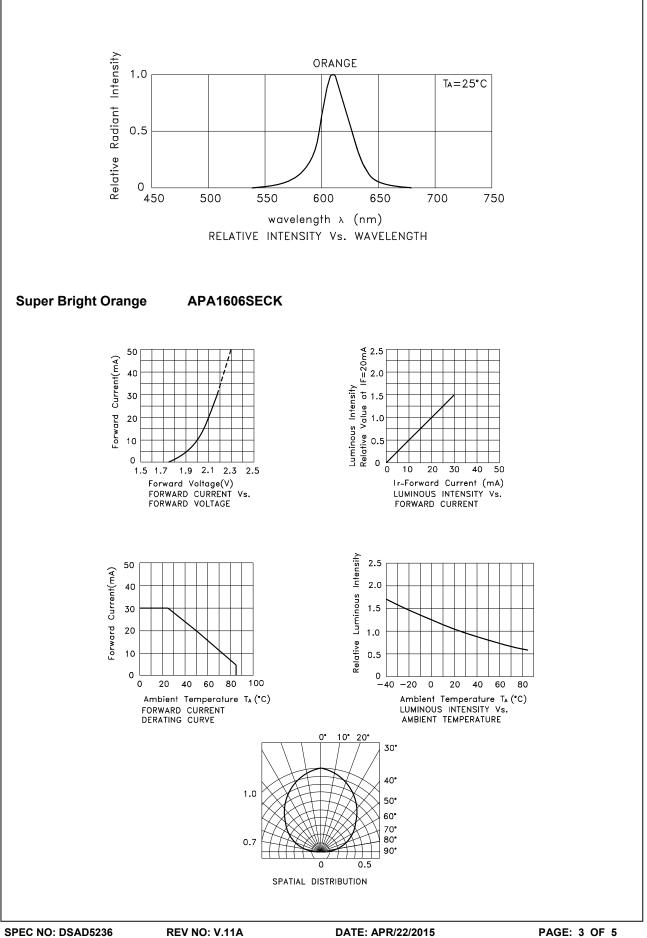
Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

| Parameter | Super Bright Orange | Units | |
|--------------------------|---------------------|-------|--|
| Power dissipation | 75 | mW | |
| DC Forward Current | 30 | mA | |
| Peak Forward Current [1] | 195 | mA | |
| Reverse Voltage | 5 | V | |
| Operating Temperature | -40°C To +85°C | | |
| Storage Temperature | -40°C To +85°C | | |

Note:

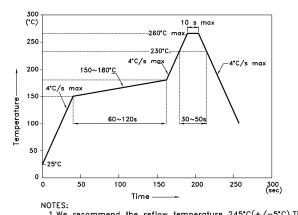
1. 1 / 10 Duty Cycle, 0.1ms Pulse Width.



APA1606SECK

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.

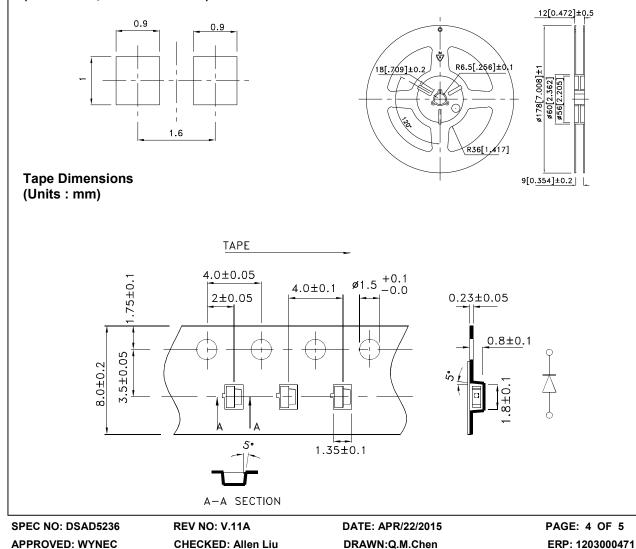
Reflow Soldering Profile For Lead-free SMT Process.

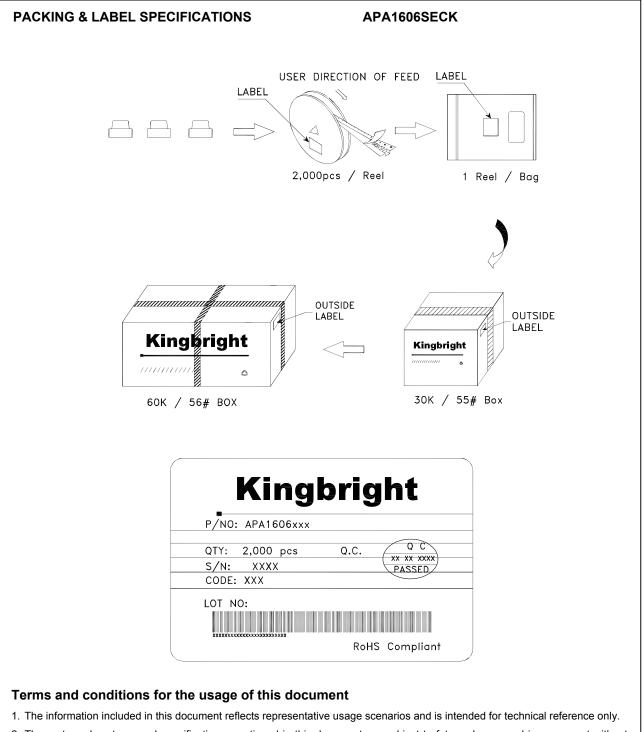


NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to bit temperature to high temperature. 3.Number of reflow process shall be 2 times or less.



Reel Dimension





- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
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