### 3.5x2.8mm SURFACE MOUNT LED LAMP

Part Number: AA3528SYCK S

Super Bright Yellow

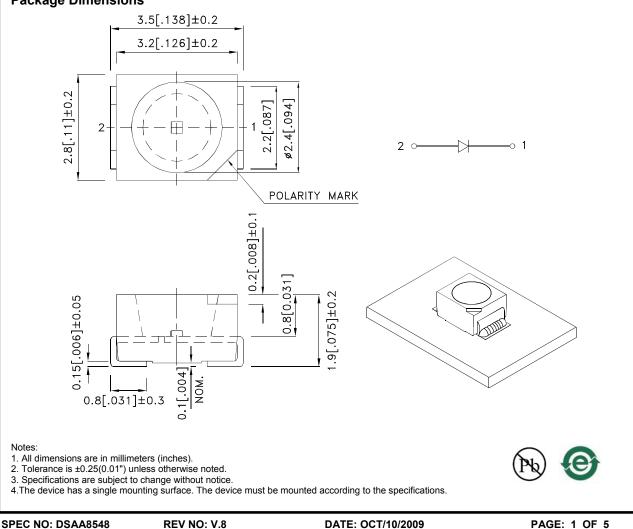
#### **Features**

- Single color.
- Suitable for all SMT assembly and solder process.
- Available on tape and reel.
- Ideal for backlighting.
- Package : 1500pcs / reel.
- Moisture sensitivity level : level 4.
- RoHS compliant.

#### Description

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

#### **Package Dimensions**



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DATE: OCT/10/2009 DRAWN: M.L.Xu PAGE: 1 OF 5 ERP: 1201004973

### **Selection Guide**

| Part No.   | Dice                          | Lens Type   | lv (mcd) [2]<br>@ 20mA |      | Viewing<br>Angle [1] |
|------------|-------------------------------|-------------|------------------------|------|----------------------|
|            |                               |             | Min.                   | Тур. | 201/2                |
| AA3528SYCK | Super Bright Yellow (AlGaInP) | WATER CLEAR | 50                     | 180  | 120°                 |

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
Luminous intensity/ luminous Flux: +/-15%.

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

| Symbol | Parameter                | Device              | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|---------------------|------|------|-------|-----------------|
| λpeak  | Peak Wavelength          | Super Bright Yellow | 590  |      | nm    | I⊧=20mA         |
| λD [1] | Dominant Wavelength      | Super Bright Yellow | 590  |      | nm    | I⊧=20mA         |
| Δλ1/2  | Spectral Line Half-width | Super Bright Yellow | 20   |      | nm    | I⊧=20mA         |
| С      | Capacitance              | Super Bright Yellow | 20   |      | pF    | VF=0V;f=1MHz    |
| VF [2] | Forward Voltage          | Super Bright Yellow | 2    | 2.5  | V     | I⊧=20mA         |
| IR     | Reverse Current          | Super Bright Yellow |      | 10   | uA    | VR=5V           |

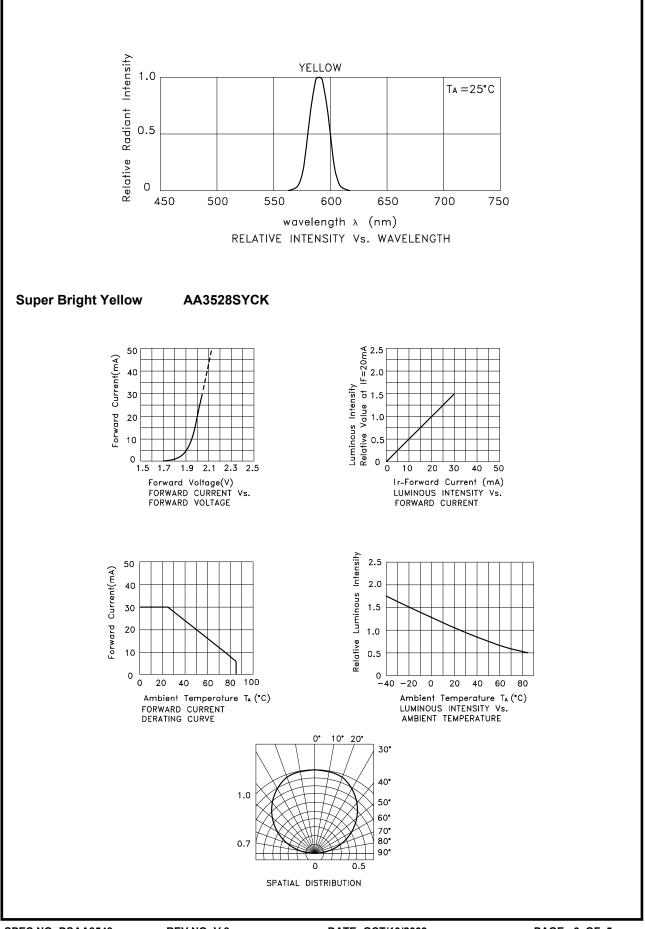
Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

### Absolute Maximum Ratings at TA=25°C

| Parameter                | Super Bright Yellow |    |  |
|--------------------------|---------------------|----|--|
| Power dissipation        | 75                  | mW |  |
| DC Forward Current       | 30                  | mA |  |
| Peak Forward Current [1] | 175                 | 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.



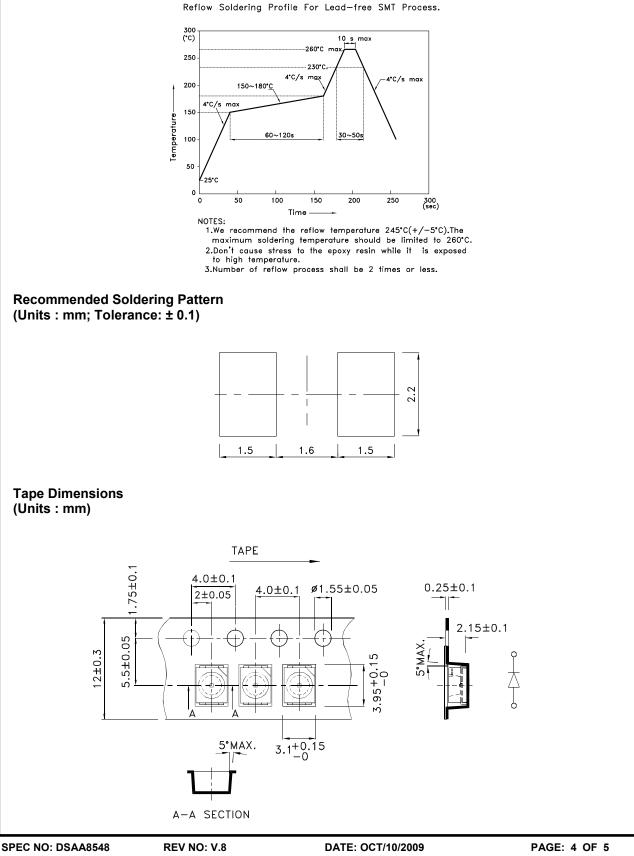
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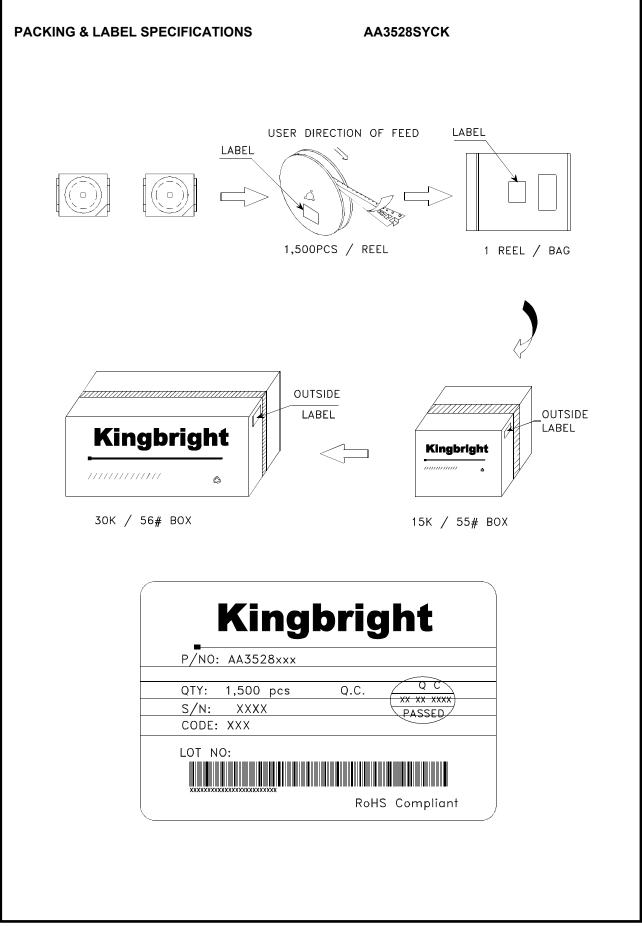
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



DRAWN: M.L.Xu

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