#### 2.0x1.25mm SMD CHIP LED LAMP

Part Number: APT2012SECK/J3-PRV Hyper Red

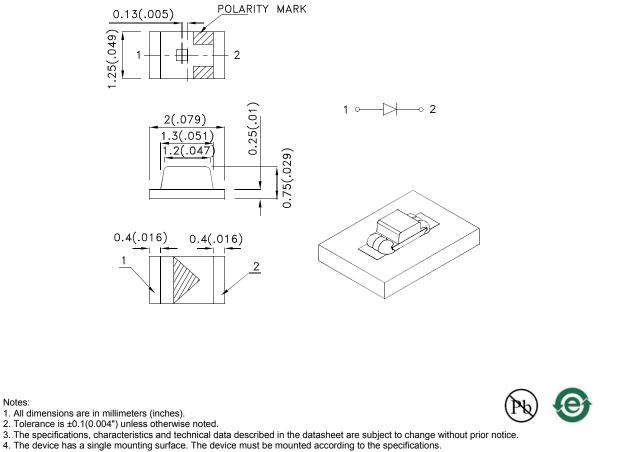
#### **Features**

- 2.0mm x1.25mm SMT LED,0.75mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

#### Description

The Hyper Red device is based on light emitting diode chip made from AlGaInP.

#### **Package Dimensions**



Notes:

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#### Soloction Guido

| Selection Guide    |                     |             |                        |      |                      |
|--------------------|---------------------|-------------|------------------------|------|----------------------|
| Part No.           | Dice                | Lens Type   | lv (mcd) [2]<br>@ 20mA |      | Viewing<br>Angle [1] |
|                    |                     |             | Min.                   | Тур. | 201/2                |
| APT2012SECK/J3-PRV | Hyper Red (AlColnD) | Water Clear | 700                    | 1100 | 120°                 |
|                    | Hyper Red (AlGaInP) | Waler Ciedi | *200                   | *350 |                      |

Notes:

1.  $\theta$ 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          | Hyper Red | 640  |      | nm    | I⊧=20mA         |
| λD [1] | Dominant Wavelength      | Hyper Red | 625  |      | nm    | IF=20mA         |
| Δλ1/2  | Spectral Line Half-width | Hyper Red | 20   |      | nm    | I⊧=20mA         |
| С      | Capacitance              | Hyper Red | 27   |      | pF    | VF=0V;f=1MHz    |
| Vf [2] | Forward Voltage          | Hyper Red | 2.2  | 2.8  | V     | IF=20mA         |
| lr     | Reverse Current          | Hyper Red |      | 10   | uA    | VR=5V           |

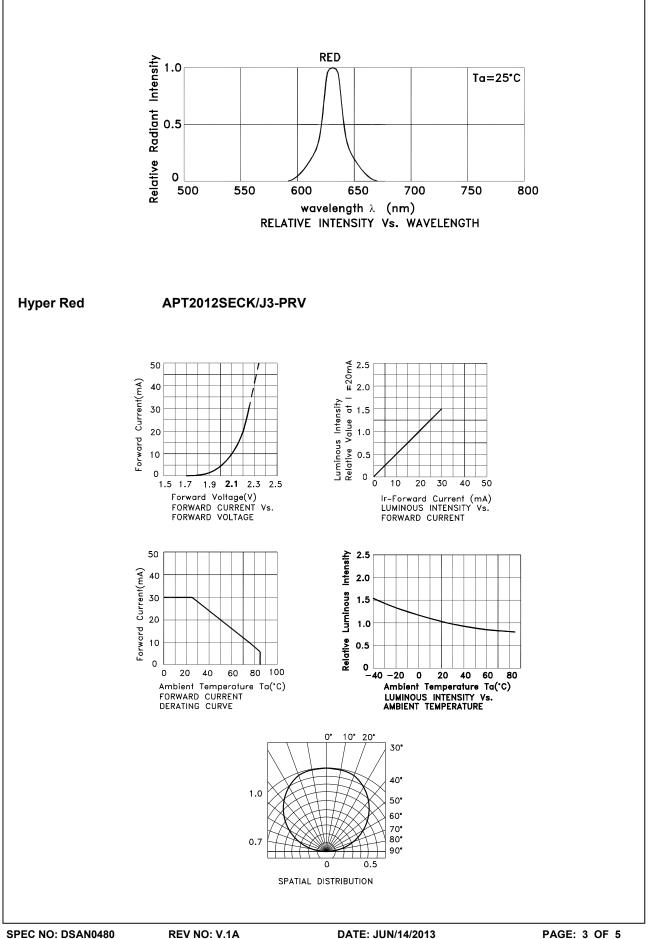
Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

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

| Parameter                | Hyper Red      | Units |  |
|--------------------------|----------------|-------|--|
| Power dissipation        | 84             | mW    |  |
| DC Forward Current       | 30             | mA    |  |
| Peak Forward Current [1] | 150            | mA    |  |
| Reverse Voltage          | 5              | V     |  |
| Operating Temperature    | -40°C To +85°C |       |  |
| Storage Temperature      | -40°C To +85°C |       |  |

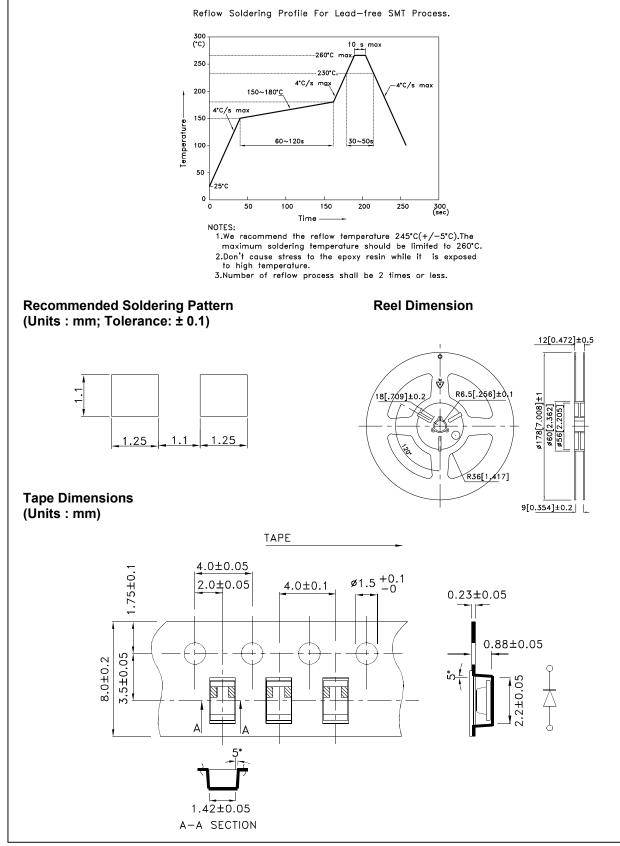
Note:

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

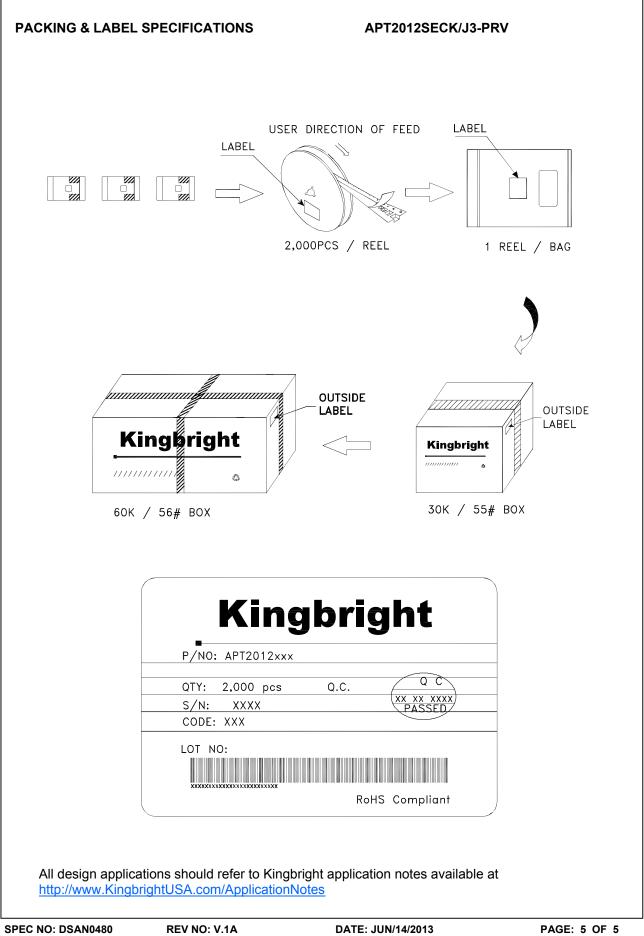


#### APT2012SECK/J3-PRV

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.



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