### 3.2mmx1.6mm SMD CHIP LED LAMP

Part Number: KPT-3216LVSECK-J3-PRV Hyper Red

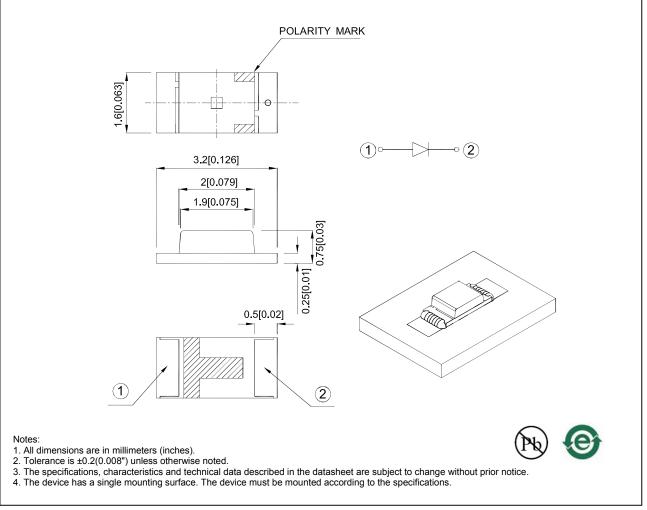
#### Features

- 3.2mmx1.6mm SMD LED, 0.75mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Low current IF=2mA operating.
- RoHS compliant.

#### Description

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

#### Package Dimensions



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#### **Selection Guide** Viewing lv (mcd) [2] @ 2mA Angle [1] Part No. **Emitting Color (Material)** Lens Type Min. 201/2 Тур. 50 100 140° KPT-3216LVSECK-J3-PRV Hyper Red (AlGaInP) Water Clear \*20 \*40

Notes:

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

2. Luminous intensity / luminous Flux: +/-15%.

\* Luminous intensity value is traceable to CIE127-2007 standards.

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

| Symbol | Parameter                | Emitting Color | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|----------------|------|------|-------|-----------------|
| λpeak  | Peak Wavelength          | Hyper Red      | 640  |      | nm    | I⊧=2mA          |
| λD [1] | Dominant Wavelength      | Hyper Red      | 625  |      | nm    | I⊧=2mA          |
| Δλ1/2  | Spectral Line Half-width | Hyper Red      | 20   |      | nm    | I⊧=2mA          |
| С      | Capacitance              | Hyper Red      | 27   |      | pF    | VF=0V;f=1MHz    |
| Vf [2] | Forward Voltage          | Hyper Red      | 1.8  | 2.1  | V     | I⊧=2mA          |
| lr     | Reverse Current          | Hyper Red      |      | 10   | uA    | VR=5V           |

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V. 3. Wavelength value is traceable to CIE127-2007 standards.

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

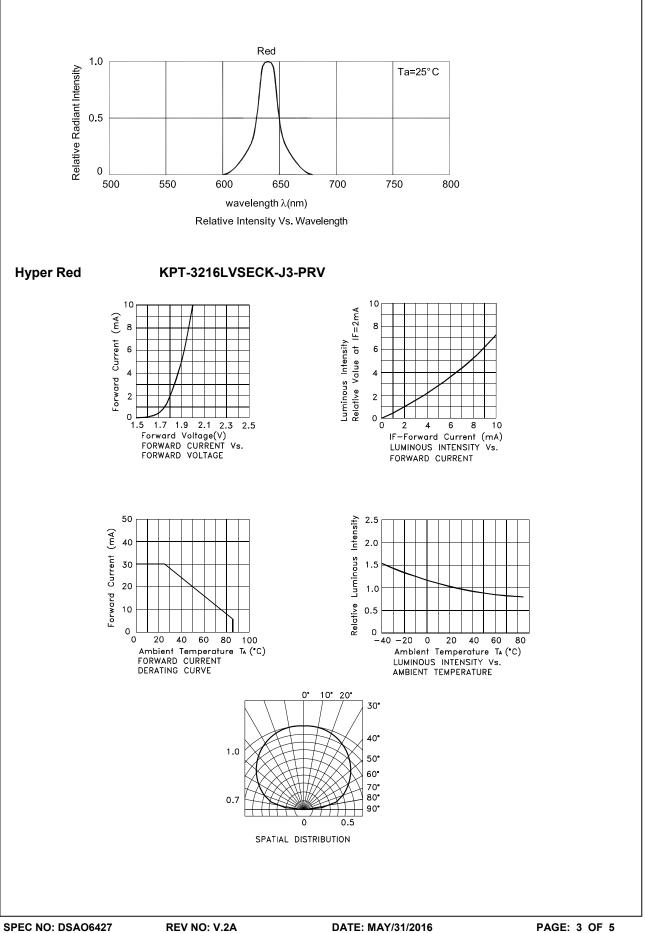
#### Absolute Maximum Ratings at TA=25°C

| Parameter                | Values         | Units |  |  |
|--------------------------|----------------|-------|--|--|
| Power dissipation        | 63             | 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 |       |  |  |

Notes:

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

Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

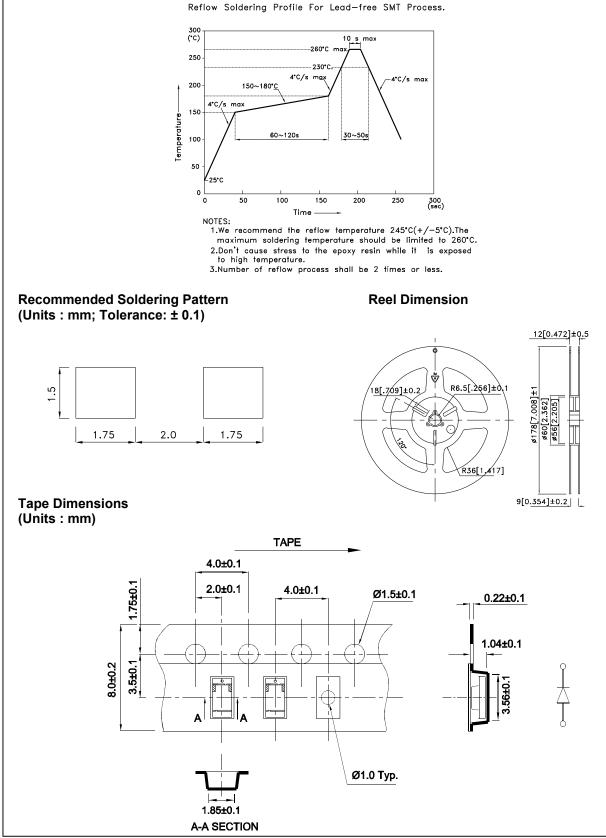


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#### KPT-3216LVSECK-J3-PRV

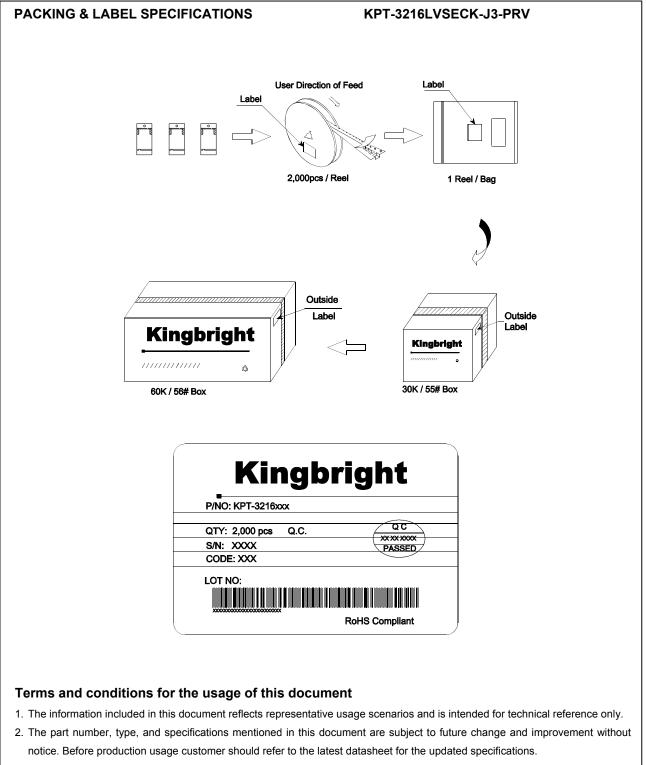
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



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- 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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