3.2x1.6mm SMD CHIP LED LAMP

Part Number: KP-3216HD

Bright Red

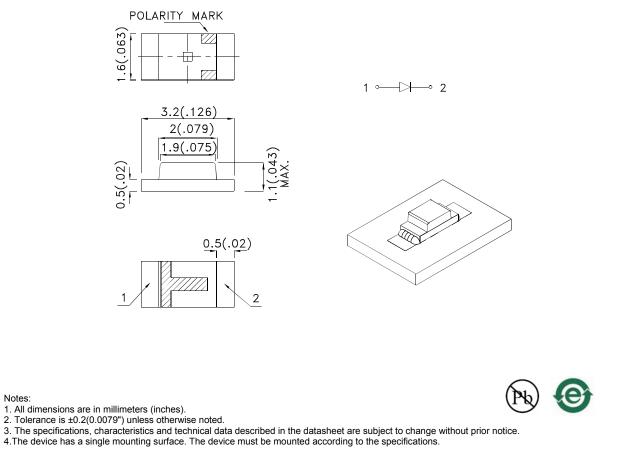
Features

- 3.2mmx1.6mm SMT LED, 1.1mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

The Bright Red source color devices are made with Gallium Phosphide Red Light Emitting Diode.

Package Dimensions



Notes:

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Selection Guide

| Part No. | Dice | Lens Type | lv (mc @ 20 | | |
|-----------|------------------|--------------|----------------|------|-------|
| | | | Min. | Тур. | 201/2 |
| KP-3216HD | Bright Red (GaP) | Red Diffused | 0.35 | 0.8 | 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%.
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 | Bright Red | 700 | | nm | IF=20mA |
| λD [1] | Dominant Wavelength | Bright Red | 635 | | nm | I⊧=20mA |
| Δλ1/2 | Spectral Line Half-width | Bright Red | 45 | | nm | IF=20mA |
| С | Capacitance | Bright Red | 40 | | pF | VF=0V;f=1MHz |
| Vf [2] | Forward Voltage | Bright Red | 2.25 | 2.5 | V | I⊧=20mA |
| lr | Reverse Current | Bright Red | | 10 | uA | VR=5V |

Notes:

1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

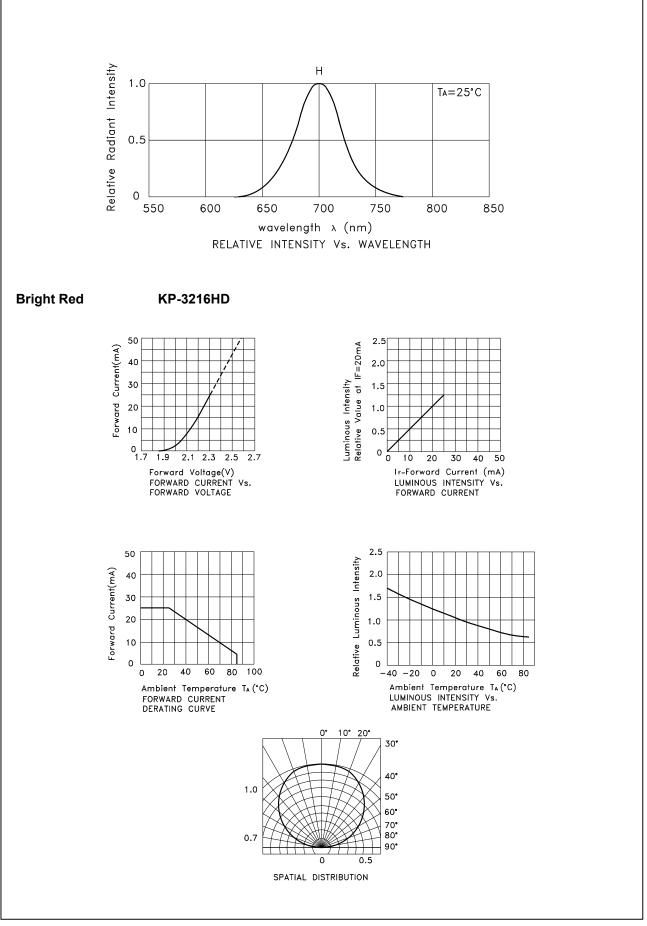
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

| Parameter | Bright Red | Units | | |
|--------------------------|----------------|-------|--|--|
| Power dissipation | 62.5 | mW | | |
| DC Forward Current | 25 | mA | | |
| Peak Forward Current [1] | 130 | mA | | |
| Reverse Voltage | 5 | V | | |
| Operating Temperature | -40°C To +85°C | | | |
| Storage Temperature | -40°C To +85°C | | | |

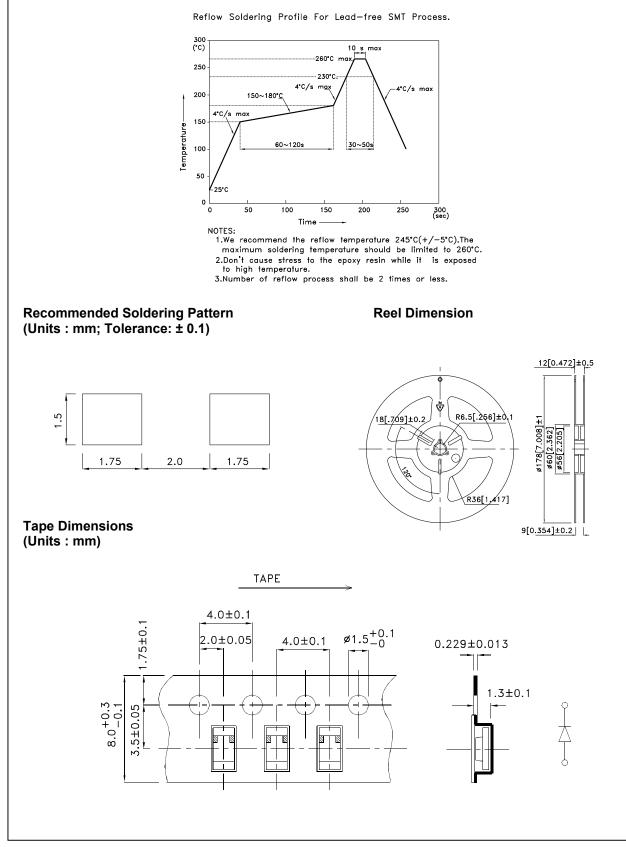
Note:

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

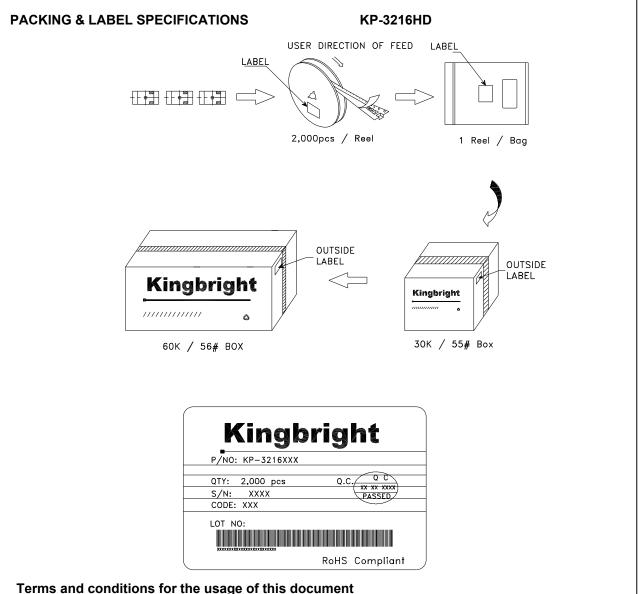


KP-3216HD

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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1. The information included in this document reflects representative usage scenarios and is intended

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