3.2x2.4mm SMD CHIP LED LAMP

Part Number: APD3224EC-F01

High Efficiency Red

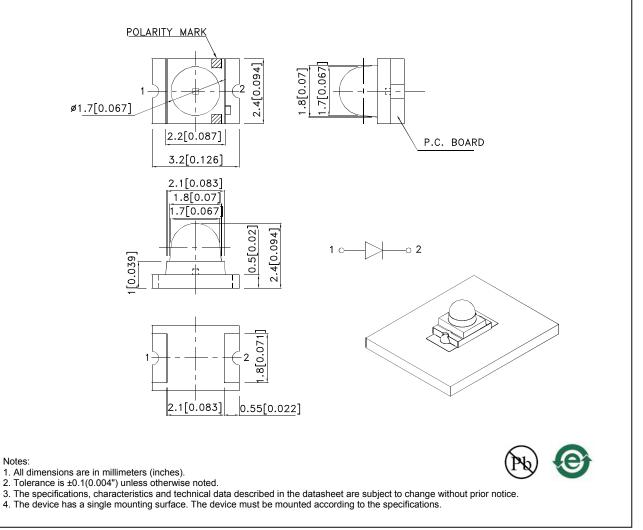
Features

- 3.2x2.4mm SMT LED, 2.4mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package : 1500pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

Package Dimensions



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Selection Guide

| Selection Guide | | | | | |
|-----------------|---------------------------------|----------------|------|------------------------|-------|
| Part No. | Dice | Dice Lens Type | | lv (mcd) [2] @ 20mA | |
| | | | Min. | Тур. | 201/2 |
| APD3224EC-F01 | High Efficiency Red (GaAsP/GaP) | Water Clear | 55 | 100 | 20° |
| | | | *40 | *60 | |

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 | High Efficiency Red | 627 | | nm | I⊧=20mA |
| λD [1] | Dominant Wavelength | High Efficiency Red | 617 | | nm | I⊧=20mA |
| Δλ1/2 | Spectral Line Half-width | High Efficiency Red | 45 | | nm | I⊧=20mA |
| С | Capacitance | High Efficiency Red | 15 | | pF | VF=0V;f=1MHz |
| VF [2] | Forward Voltage | High Efficiency Red | 2 | 2.5 | V | I⊧=20mA |
| IR | Reverse Current | High Efficiency Red | | 10 | uA | VR=5V |

Notes:

1.Wavelength: +/-1nm.

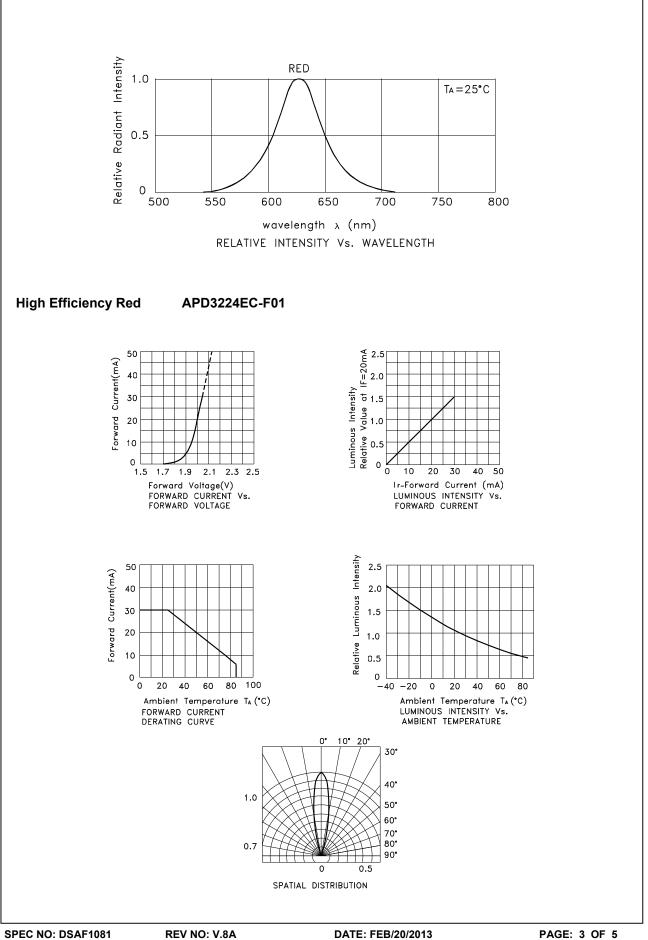
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

| Parameter | High Efficiency Red | Units | | |
|--------------------------|---------------------|-------|--|--|
| Power dissipation | 75 | mW | | |
| DC Forward Current | 30 | mA | | |
| Peak Forward Current [1] | 160 | mA | | |
| Reverse Voltage | 5 | V | | |
| Operating Temperature | -40°C To +85°C | | | |
| Storage Temperature | -40°C To +85°C | | | |

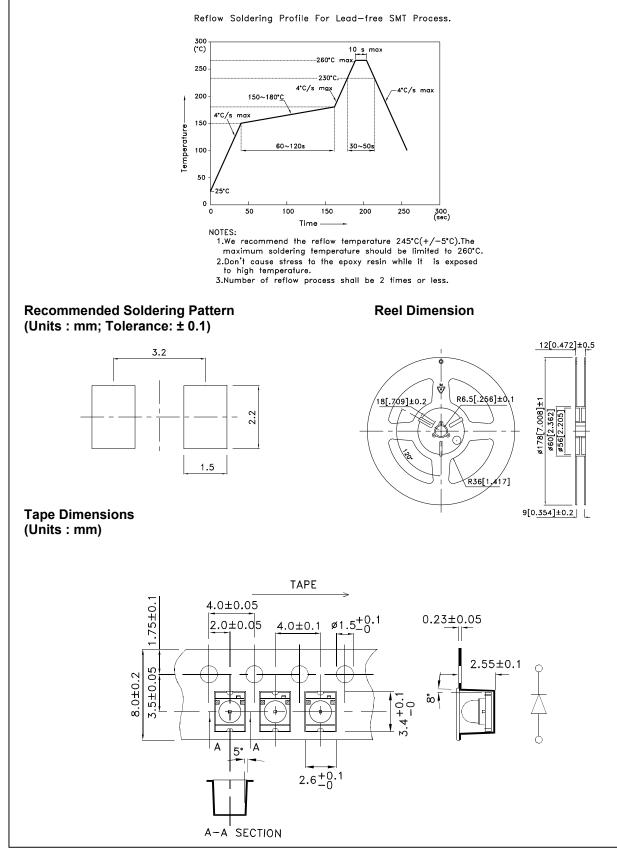
Note:

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

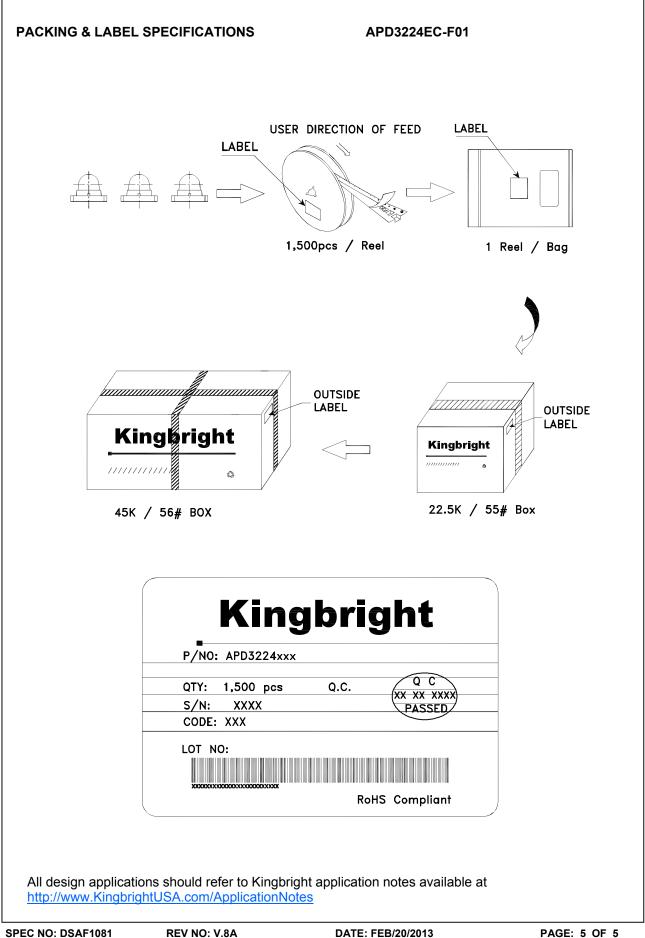


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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.



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