1.6X0.8mm SMD CHIP LED LAMP

Part Number: KPT-1608EC

High Efficiency Red

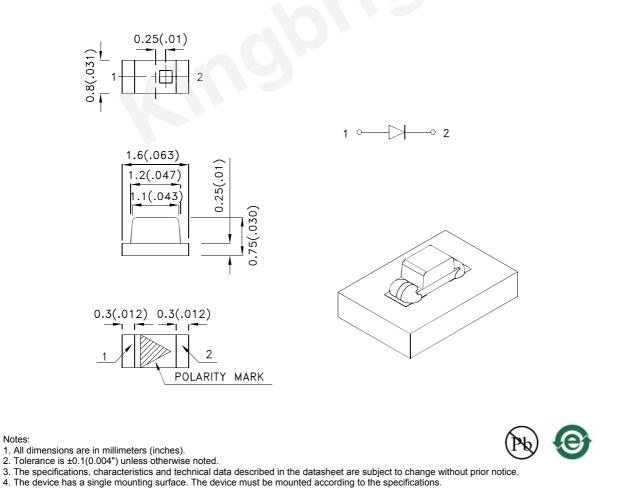
Features

- 1.6mmX0.8mm 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 High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

Package Dimensions



SPEC NO: DSAB3160 APPROVED: WYNEC REV NO: V.21A CHECKED: Allen Liu DATE: APR/06/2013 DRAWN: Q.M.Chen PAGE: 1 OF 5 ERP: 1203001652

Selection Guide

| Selection Guide | | | | | |
|-----------------|---------------------------------|-------------|------------------------|------|----------------------|
| Part No. | Dice | Lens Type | lv (mcd) [2] @ 20mA | | Viewing Angle [1] |
| | | | Min. | Тур. | 201/2 |
| KPT-1608EC | High Efficiency Red (GaAsP/GaP) | Water Clear | 8 | 15 | 120° |
| | | | *3 | *8 | |

Notes:

1. θ 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

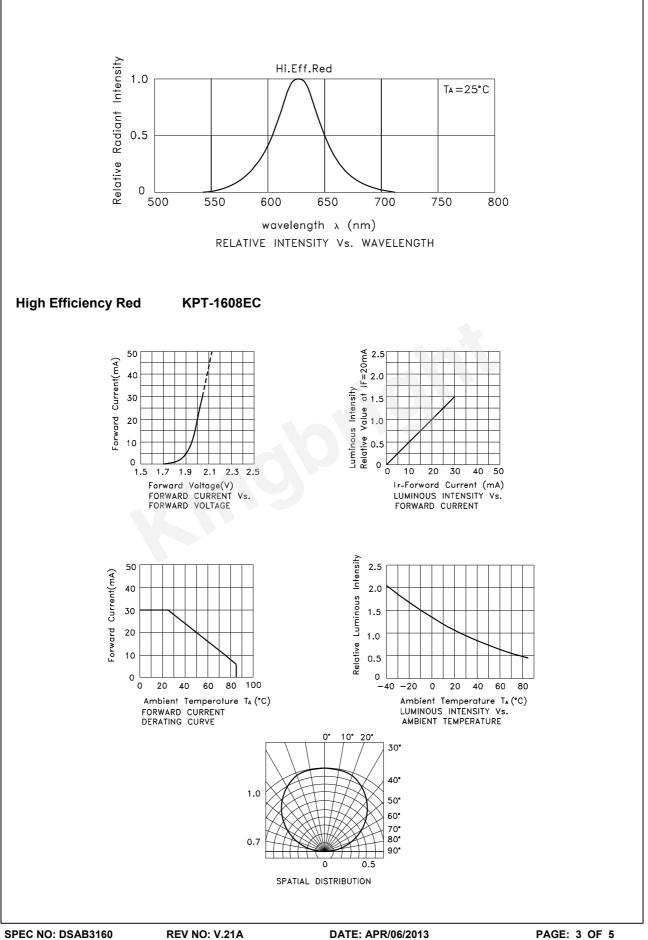
| Symbol | Parameter | Device | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|---------------------|------|------|-------|-----------------|
| λpeak | Peak Wavelength | High Efficiency Red | 627 | | nm | I⊧=20mA |
| λD [1] | Dominant Wavelength | High Efficiency Red | 617 | | 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 |
| lr | Reverse Current | High Efficiency 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

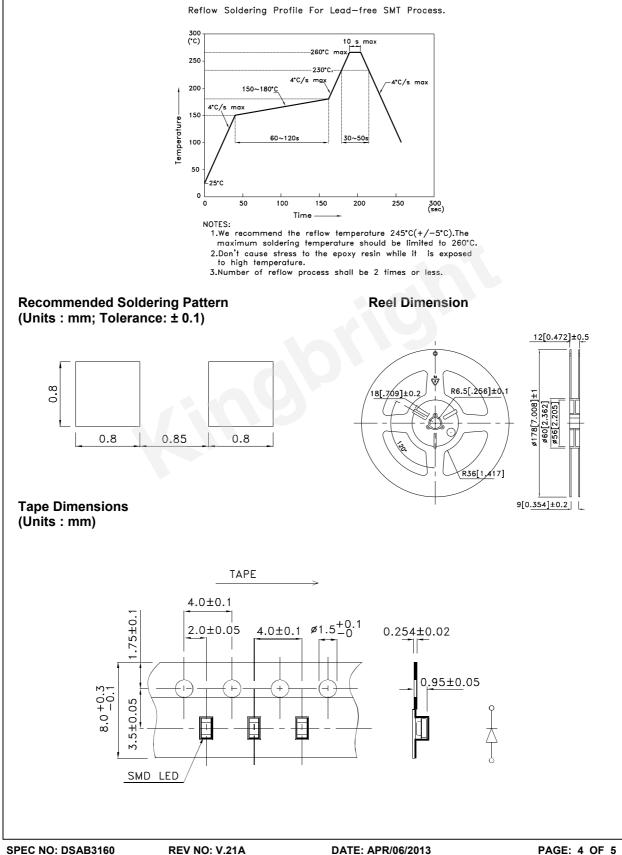
| Parameter | High Efficiency Red | Units | | |
|--------------------------|---------------------|-------|--|--|
| Power dissipation | 75 | mW | | |
| DC Forward Current | 30 | mA | | |
| Peak Forward Current [1] | 160 | mA | | |
| Reverse Voltage | 5 | V | | |
| Operating Temperature | -40°C To +85°C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

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



KPT-1608EC

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.



DRAWN: Q.M.Chen

