3.2x1.6mm SMD CHIP LED LAMP

Part Number: KPTD-3216SURCK Hyper Red

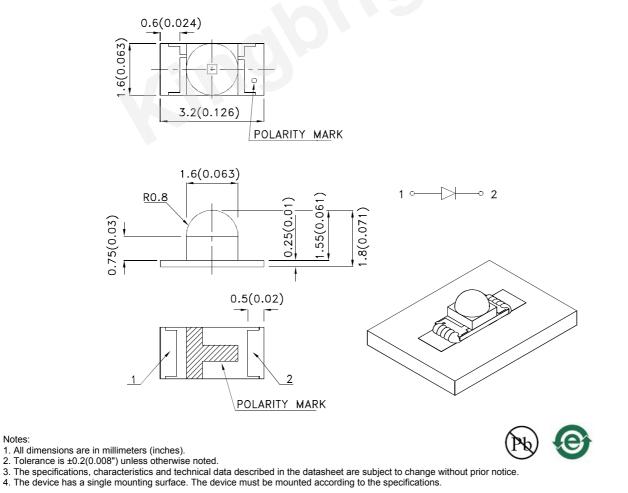
Features

- 3.2mmX1.6mm SMT LED, 1.8mm thickness.
- Low power consumption.
- 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 source color devices are made with Al-GalnP on GaAs substrate Light Emitting Diode.

Package Dimensions



SPEC NO: DSAA4410 APPROVED: WYNEC REV NO: V.19A CHECKED: Allen Liu DATE: FEB/20/2013 DRAWN: Q.M.Chen PAGE: 1 OF 5 ERP: 1203002303

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| Selection Guide | | | | | |
|-----------------|---------------------|-------------|------------------------|------|----------------------|
| Part No. | Dice | Lens Type | lv (mcd) [2] @ 20mA | | Viewing Angle [1] |
| | | | Min. | Тур. | 201/2 |
| KPTD-3216SURCK | Hyper Red (AlColnD) | Water Clear | 700 | 1500 | - 35° |
| | Hyper Red (AlGaInP) | | *300 | *800 | |

Notes:

1. 01/2 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

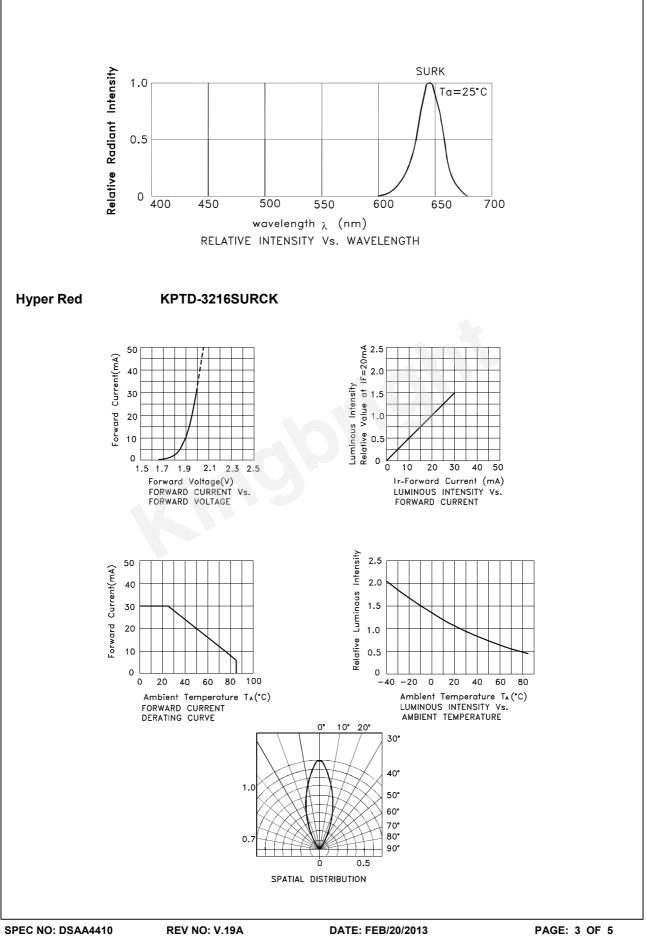
| Symbol | Parameter | Device | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|-----------|------|------|-------|-----------------|
| λpeak | Peak Wavelength | Hyper Red | 645 | | nm | I⊧=20mA |
| λD [1] | Dominant Wavelength | Hyper Red | 630 | | nm | I⊧=20mA |
| Δλ1/2 | Spectral Line Half-width | Hyper Red | 28 | | nm | I⊧=20mA |
| С | Capacitance | Hyper Red | 35 | | pF | VF=0V;f=1MHz |
| Vf [2] | Forward Voltage | Hyper Red | 1.95 | 2.5 | V | I⊧=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

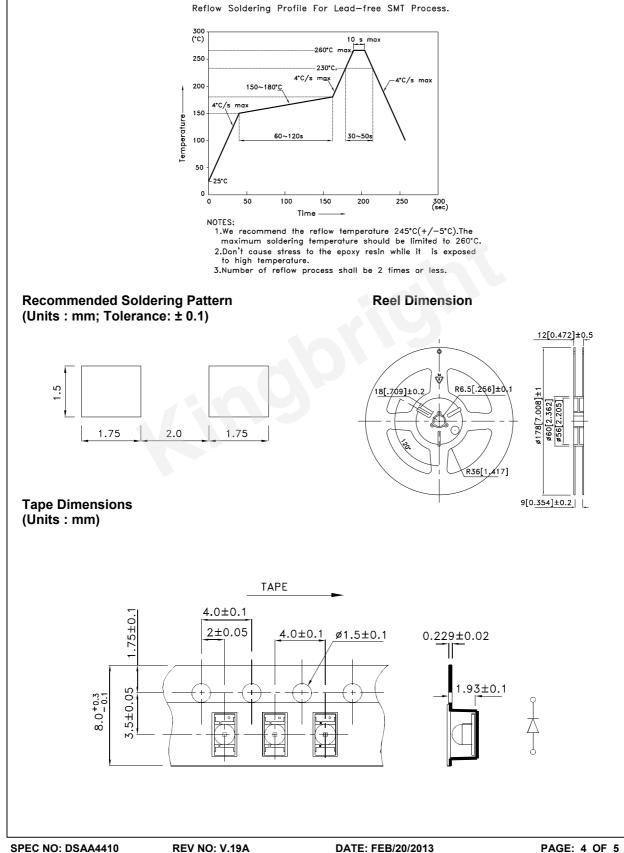
| Parameter | Hyper Red | Units | | |
|--------------------------|----------------|-------|--|--|
| Power dissipation | 75 | mW | | |
| DC Forward Current | 30 | mA | | |
| Peak Forward Current [1] | 185 | mA | | |
| Reverse Voltage | 5 | V | | |
| Operating Temperature | -40°C To +85°C | | | |
| Storage Temperature | -40°C To +85°C | | | |

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

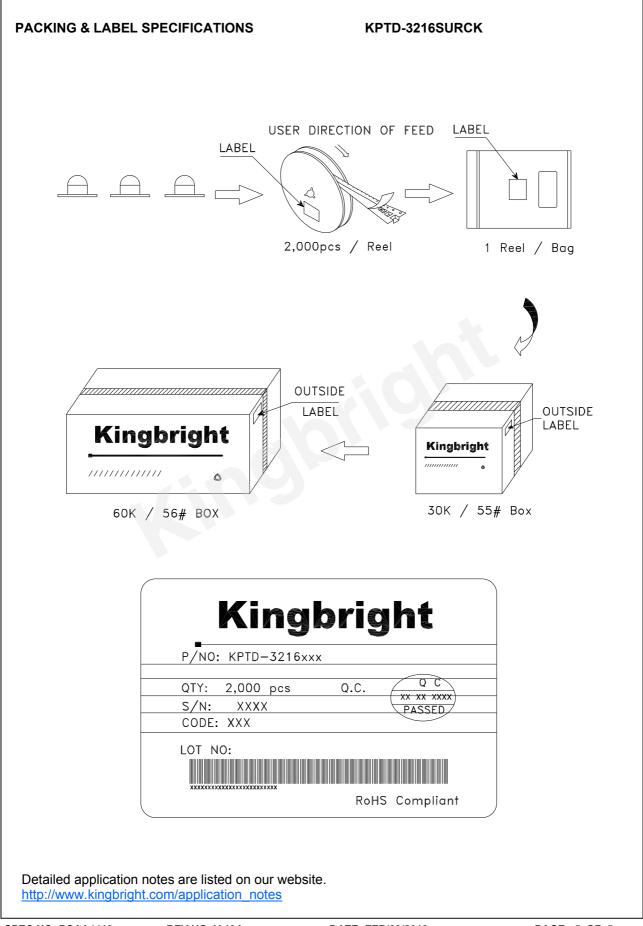


KPTD-3216SURCK

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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