3.2x1.6mm SMD CHIP LED LAMP

Part Number: KPTD-3216EC-01

High Efficiency Red

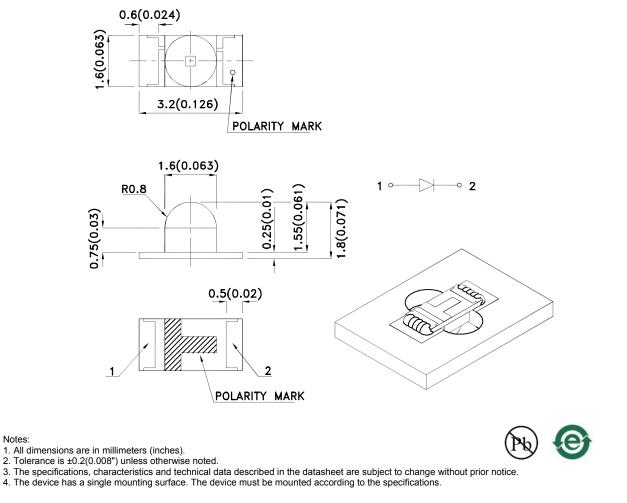
Features

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

Package Dimensions



REV NO: V.5A CHECKED: Allen Liu DATE: AUG/04/2012 DRAWN: C.H.Han PAGE: 1 OF 5 ERP: 1203002859

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Selection Guide					
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPTD-3216EC-01	High Efficiency Red (GaAsP/GaP)	Water Clear	30	55	40°
			*20	*50	

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.		Тур.		Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627	*627		nm	I⊧=20mA		
λD [1]	Dominant Wavelength	High Efficiency Red	625	*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:

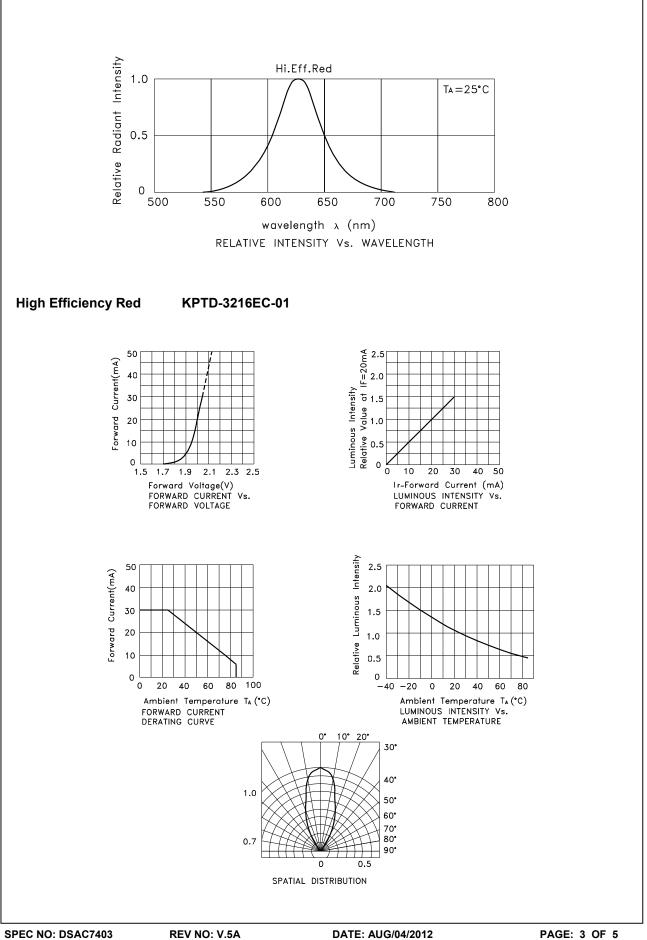
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

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

Absolute Maximum Ratings at TA=25°C

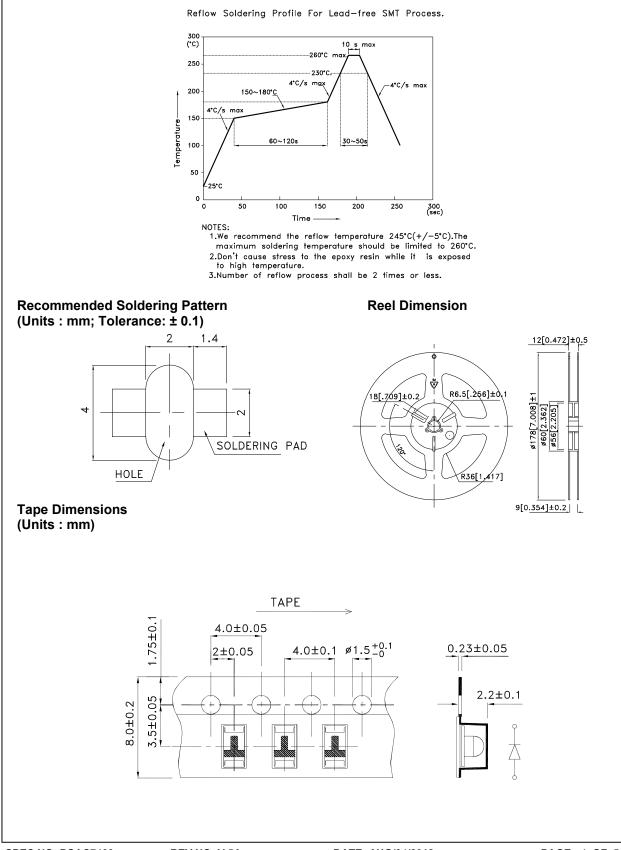
Parameter	High Efficiency Red	Units		
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	160	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

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

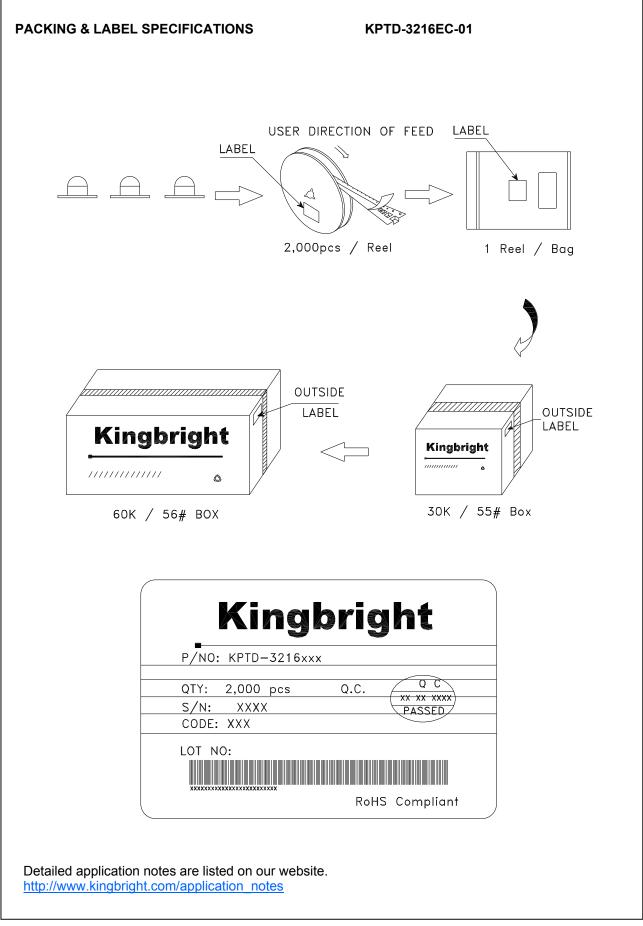


KPTD-3216EC-01

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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