### 3.2x1.6mm SMD CHIP LED LAMP

Part Number: KP-3216EC

High Efficiency Red

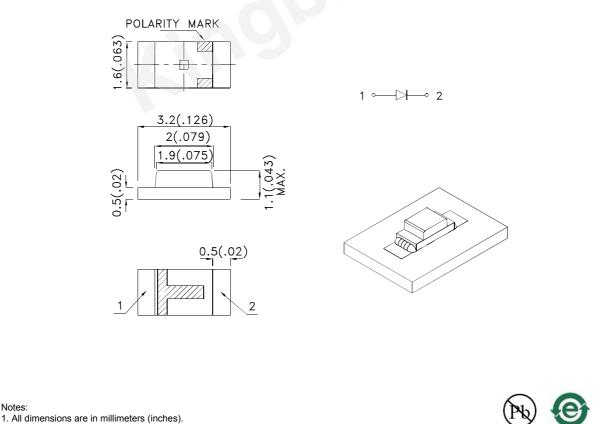
#### **Features**

- 3.2mmx1.6mm SMT LED, 1.1mm 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**



2. Tolerance is ±0.2(0.0079") unless otherwise noted.

The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAB4908 **APPROVED: WYNEC** 

Notes:

REV NO: V.17A **CHECKED: Allen Liu**  DATE: APR/06/2013 DRAWN: Q.M.Chen

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#### Selection Guide

Selection Guide					
Part No.	Dice	Lens Type	Lens Type Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KP-3216EC	High Efficiency Red (GaAsP/GaP)	Water Clear	8	15	120°
			*3	*8	

Notes:

1.  $\theta$ 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	l⊧=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:

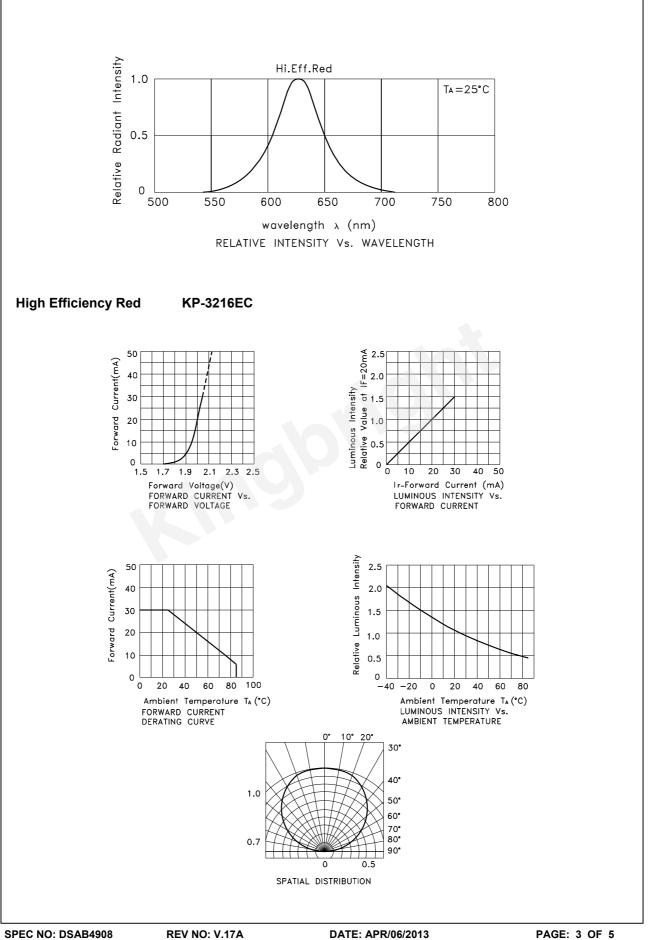
1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V. 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.



### KP-3216EC

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.

