2.0x1.25mm SMD CHIP LED LAMP

Part Number: KP-2012LEC

High Efficiency Red

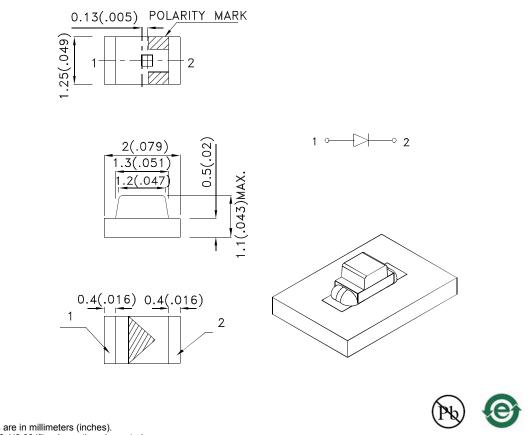
Features

- 2.0mmx1.25mm 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.
- Low current IF=2mA operating.
- 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



Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is $\pm 0.1(0.004")$ 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.

DATE: DEC/14/2011 DRAWN: D.M.Su

PAGE: 1 OF 5 ERP: 1203002552

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Selection Guide							
Part No.	Dice	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]		
			Min.	Тур.	201/2		
KP-2012LEC	High Efficiency Red (GaAsP/GaP)	Water Clear	0.3	0.8	120°		
KF-2012LEC			*0.2	*0.5			

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
2. 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⊧=2mA		
λD [1]	Dominant Wavelength High Efficiency Red 625 *617			nm	I⊧=2mA				
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45			nm	IF=2mA		
С	Capacitance	High Efficiency Red	15			pF	V⊧=0V;f=1MHz		
Vf [2]	Forward Voltage	High Efficiency Red	1.7		2.5	V	I⊧=2mA		
lr	Reverse Current	High Efficiency Red			10	uA	VR=5V		

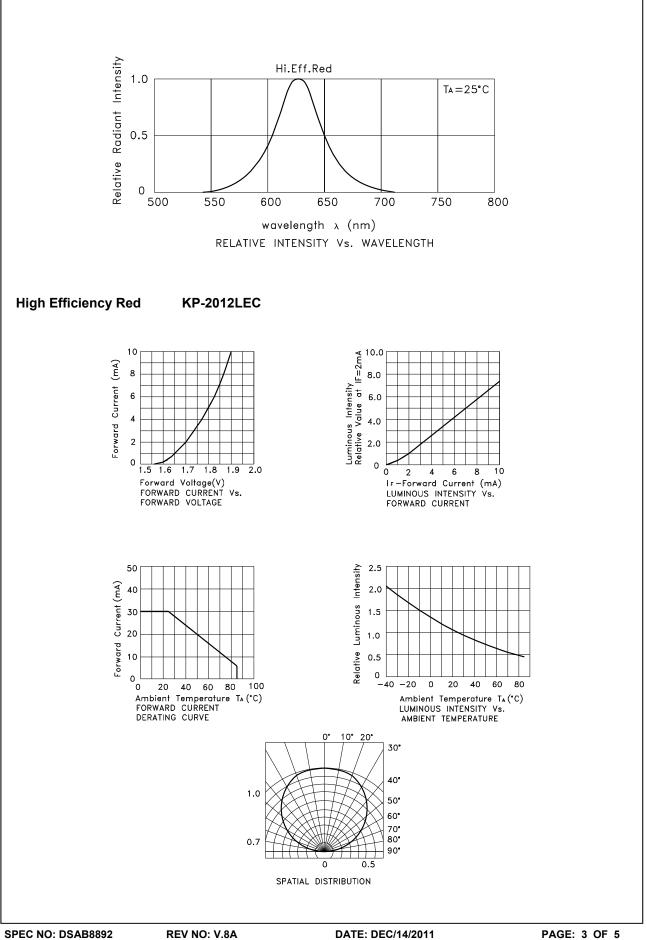
Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. * Wavelength value is traceable to the CIE127-2007 compliant national standards.

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			

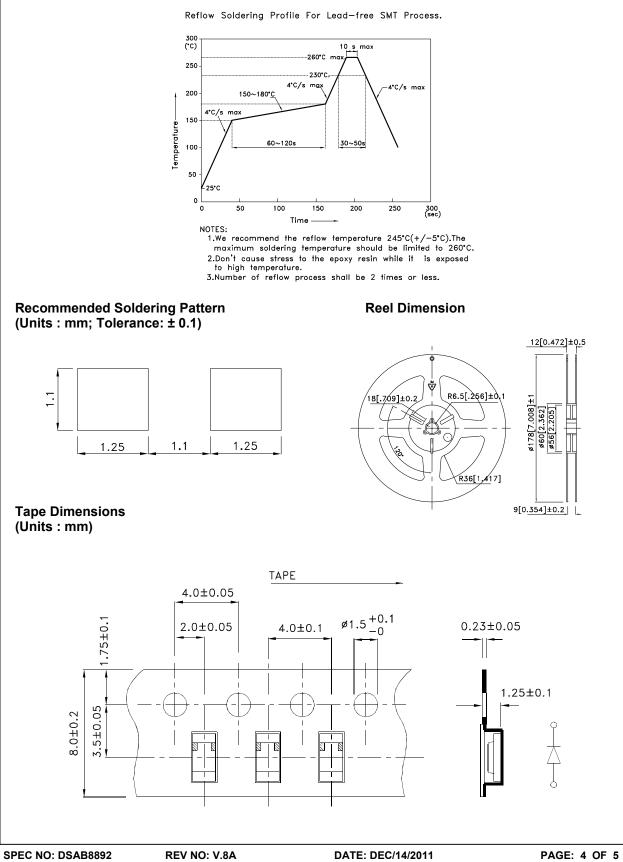
Note:

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



KP-2012LEC

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.



SPEC NO: DSAB8892 APPROVED: WYNEC

CHECKED: Allen Liu

DATE: DEC/14/2011 DRAWN: D.M.Su PAGE: 4 OF 5 ERP: 1203002552

