### 2.0x1.25mm SMD CHIP LED LAMP

Part Number: KP-2012ID

High Efficiency Red

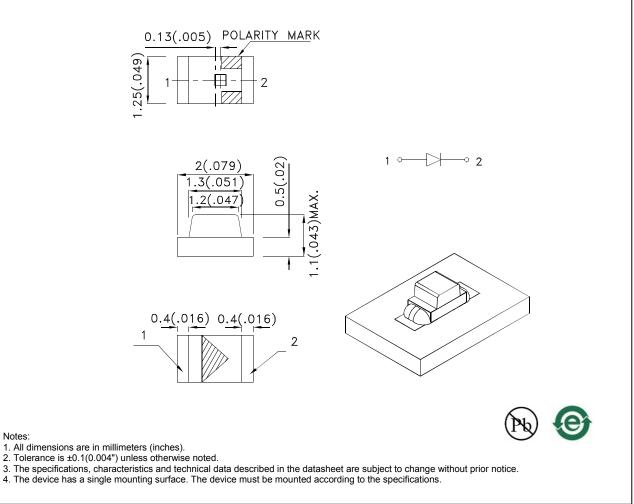
#### **Features**

- 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.
- 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: DSAA8915 **APPROVED: WYNEC** 

Notes:

**REV NO: V.9A CHECKED:** Allen Liu DATE: JUL/25/2012 DRAWN: F.Cui

PAGE: 1 OF 5 ERP: 1203000107

### Soloction Guido

Selection Guide					
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KP-2012ID	High Efficiency Red (GaAsP/GaP)	Red Diffused	5	12	120°
		Rea Dinasea	*5	*7	

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.		Тур.		Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	ficiency 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		
lr	Reverse Current	High Efficiency Red			10	uA	Vr=5V		

Notes:

1.Wavelength: +/-1nm.

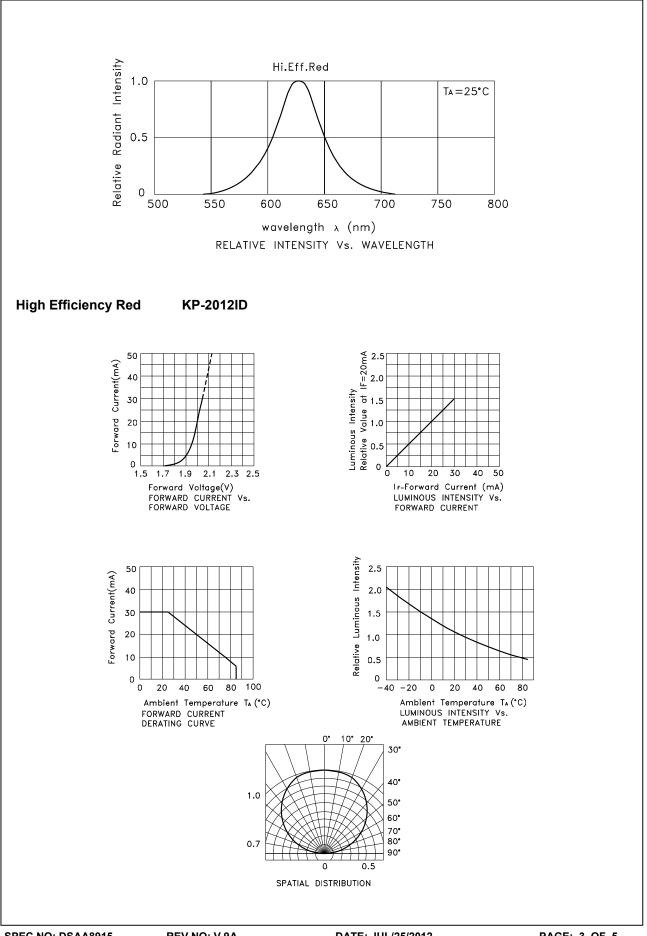
2. Forward Voltage: +/-0.1V. \*Wavelength value is traceable to the CIE127-2007 compliant national standards.

### 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				

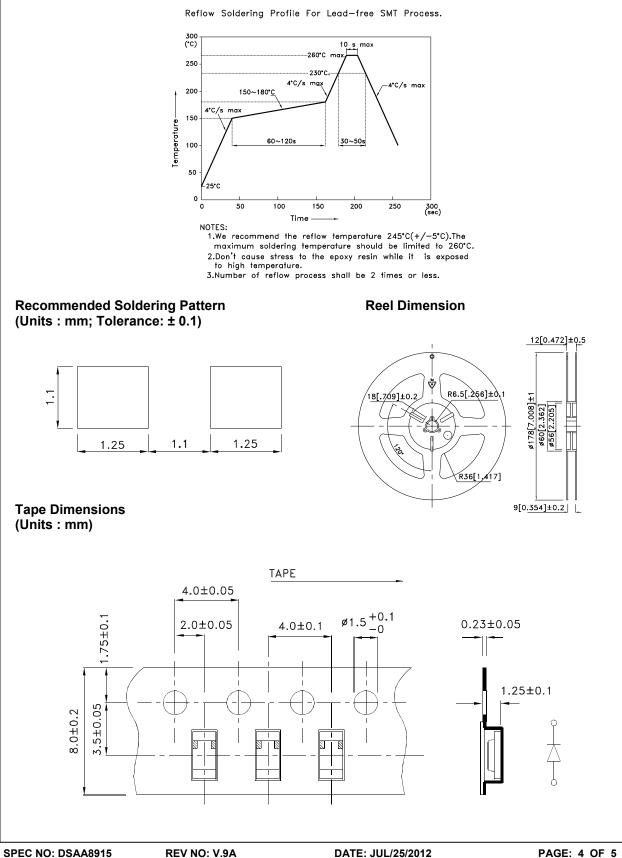
Note:

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



### KP-2012ID

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: DSAA8915 APPROVED: WYNEC

REV NO: V.9A CHECKED: Allen Liu DATE: JUL/25/2012 DRAWN: F.Cui PAGE: 4 OF 5 ERP: 1203000107

