#### 1.6x1.5mm BI-COLOR SMD CHIP LED LAMP

#### PRELIMINARY SPEC

KPTB-1615LESGC

HIGH EFFICIENCY RED SUPER BRIGHT GREEN

#### **Features**

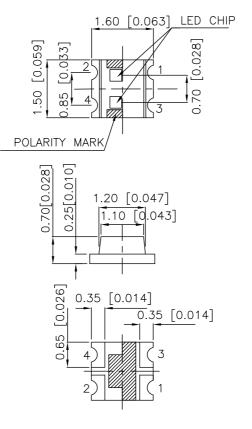
- •1.6mmx1.5mm SMT LED, 0.7mm THICKNESS.
- •LOW POWER CONSUMPTION.
- •WIDE VIEWING ANGLE.
- •IDEAL FOR BACKLIGHT AND INDICATOR.
- •VARIOUS COLORS AND LENS TYPES AVAILABLE.
- •PACKAGE : 2000PCS / REEL.
- •LOW CURRENT IF=2mA OPERATING.
- •IN ACCORD WITH Kingbright ENVIRONMENTAL POLICY (DOCUMENT WI-QC-G-0442).
- •RoHS COMPLIANT.

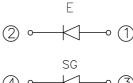
#### Description

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

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

### **Package Dimensions**





#### Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is  $\pm 0.2(0.008")$  unless otherwise noted. 3. Specifications are subject to change without notice.

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Selection Guide								
Part No.	Dice	Lens Type	lv (mcd) @ 2mA		Viewing Angle			
			Min.	Тур.	2 <del>0</del> 1/2			
KPTB-1615LESGC	HIGH EFFICIENCY RED (GaAsP/GaP)		0.3	0.6	120°			
	SUPER BRIGHT GREEN (Gap)	WATER CLEAR	0.3	1				

Note:

1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

#### Electrical / Optical Characteristics at TA=25°C

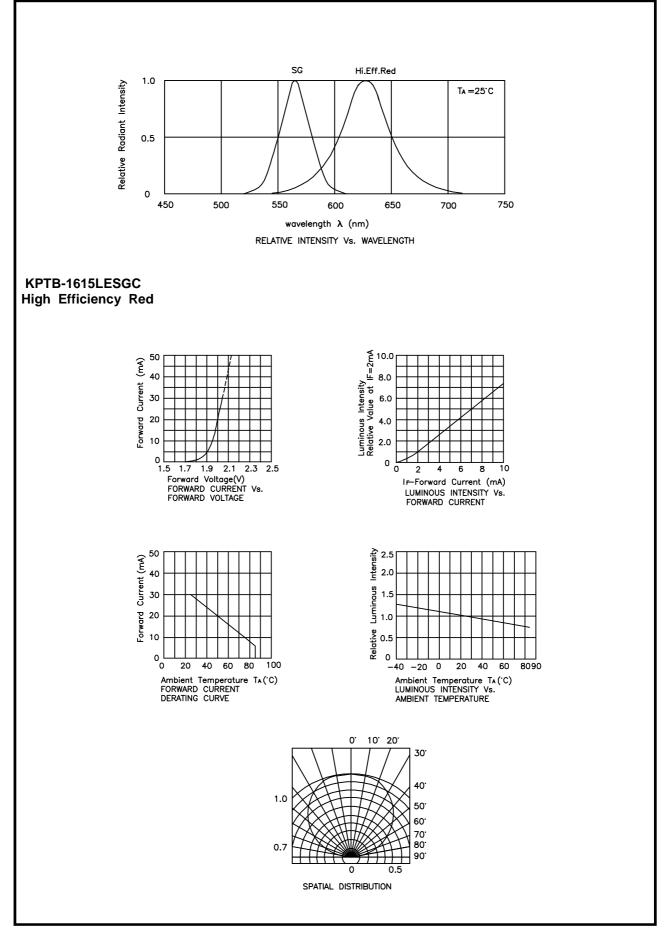
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red Super Bright Green	627 565		nm	IF=20mA
λD	Dominant Wavelength	High Efficiency Red Super Bright Green	625 568		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red Super Bright Green	45 30		nm	IF=20mA
С	Capacitance	High Efficiency Red Super Bright Green	15 15		pF	VF=0V;f=1MHz
VF	Forward Voltage	High Efficiency Red Super Bright Green	2.0 2.2	2.5 2.5	V	IF=20mA
IR	Reverse Current	High Efficiency Red Super Bright Green		10 10	uA	VR = 5V

#### Absolute Maximum Ratings at TA=25°C

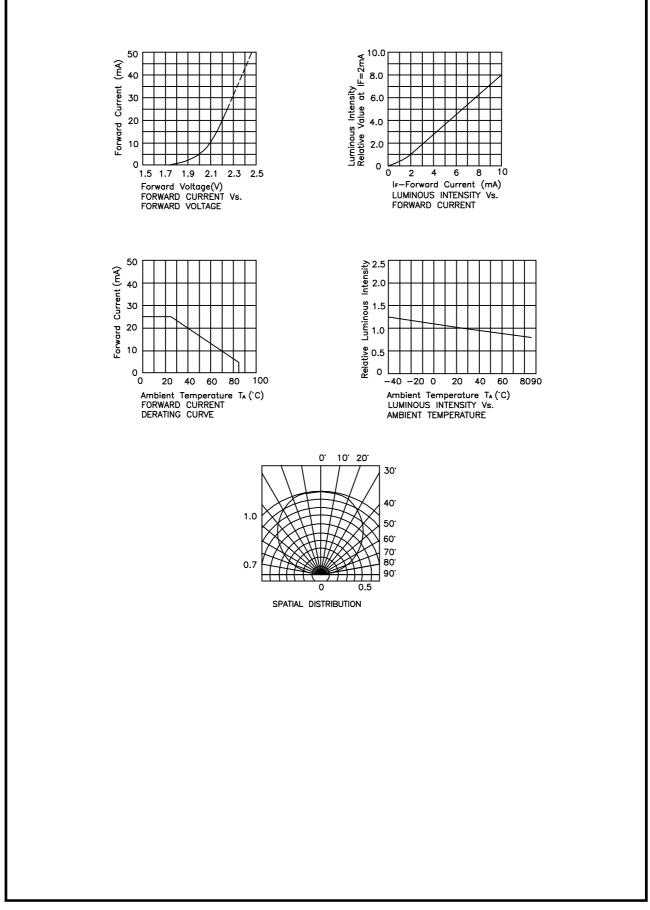
Parameter	High Efficiency Red	Super Bright Green	Units	
Power dissipation	105	105	mW	
DC Forward Current	30	25	mA	
Peak Forward Current [1]	160	140	mA	
Reverse Voltage	5	V		
Operating/storage Temperature	-40°C To +85°C			

Note:

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

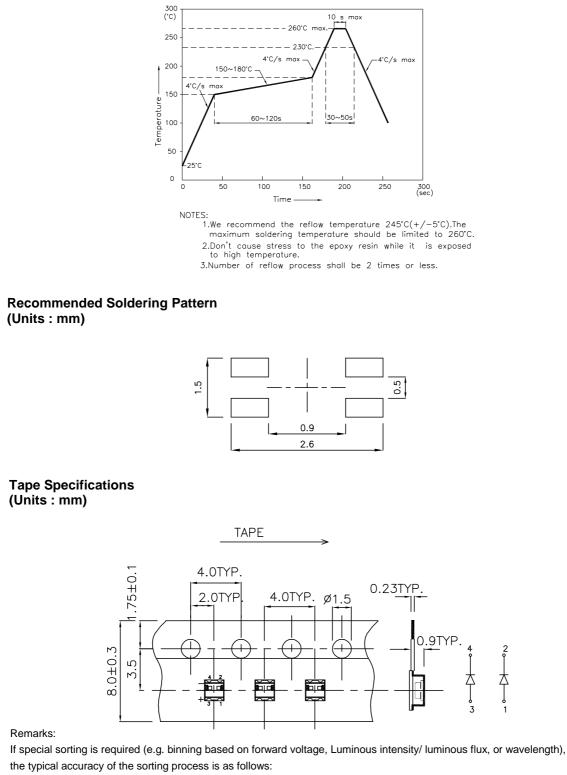


#### Super Bright Green



#### **KPTB-1615LESGC**





- 1. Wavelength: +/-0.5nm
- 2. Luminous intensity/ Luminous Flux: +/-5%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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