### 0.65X0.35mm SMD CHIP LED LAMP (0.2mm Height)

Part Number: KPG-0603SEC-E-TT Hyper-Red

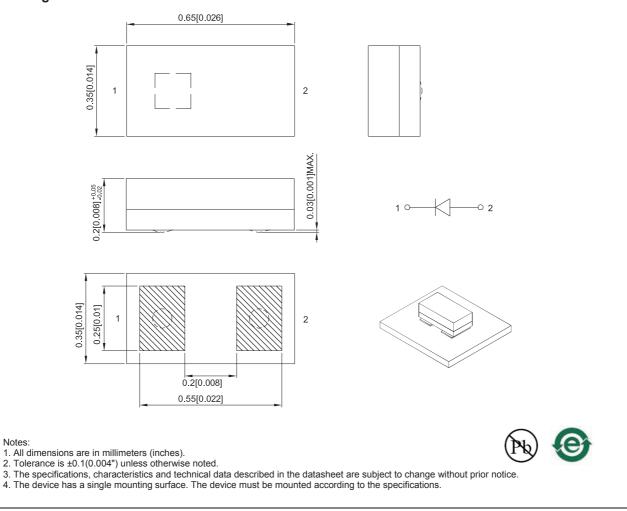
#### **Features**

- 0.65mmX0.35mm SMT LED,0.2mm thickness.
- Low power consumption.
- Wide viewing angle.
- Compatible with automatic placement equipment.
- Package:4000pcs/reel.
- Moisture sensitivity level : level 2.
- RoHS compliant.

#### Description

The Hyper-Red source color devices are made with Al-GalnP on GaAs substrate Light Emitting Diode.

#### Package Dimensions



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#### Salastian Cuida

Selection Guide					
Part No.	Dice	Iv (mcd) [2] Lens Type @ 10mA			Viewing Angle [1]
			Min.	Тур.	201/2
KPG-0603SEC-E-TT	Hyper Bed(AlCalpp)	Water Clear	45	120	135°
	Hyper-Red(AlGalnp)	Water Clear	*15	*40	

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	Hyper-Red	632		nm	IF=10mA
λD [1]	Dominant Wavelength	Hyper-Red	624		nm	IF=10mA
Δλ1/2	Spectral Line Half-width	Hyper-Red	20		nm	IF=10mA
VF [2]	Forward Voltage	Hyper-Red	1.94	2.4	V	IF=10mA
lr	Reverse Current	Hyper-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.

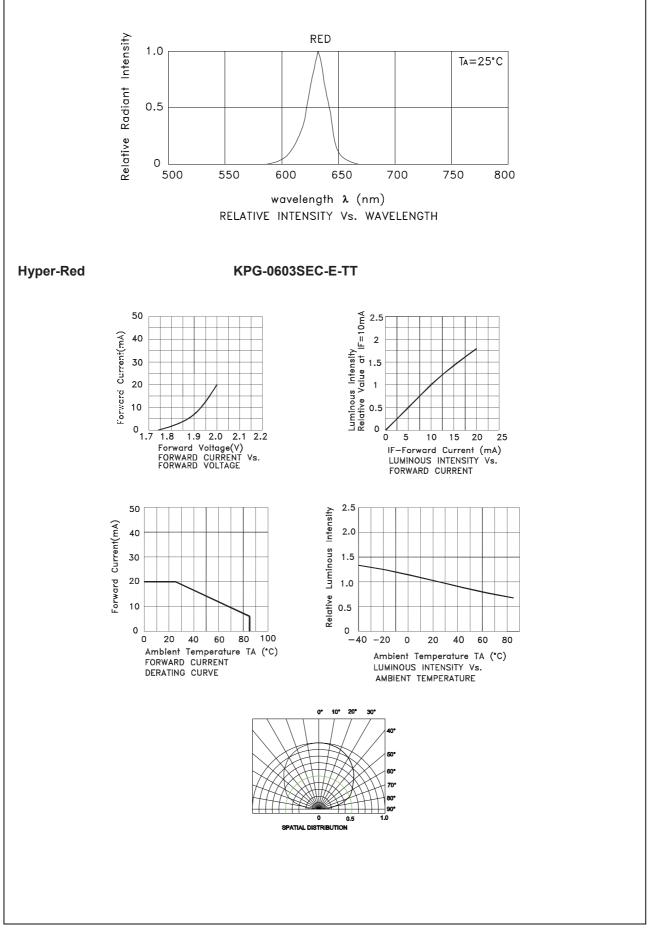
4. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

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

Parameter	Hyper-Red	Units	
Power dissipation	48	mW	
DC Forward Current	20	mA	
Peak Forward Current [1]	100	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

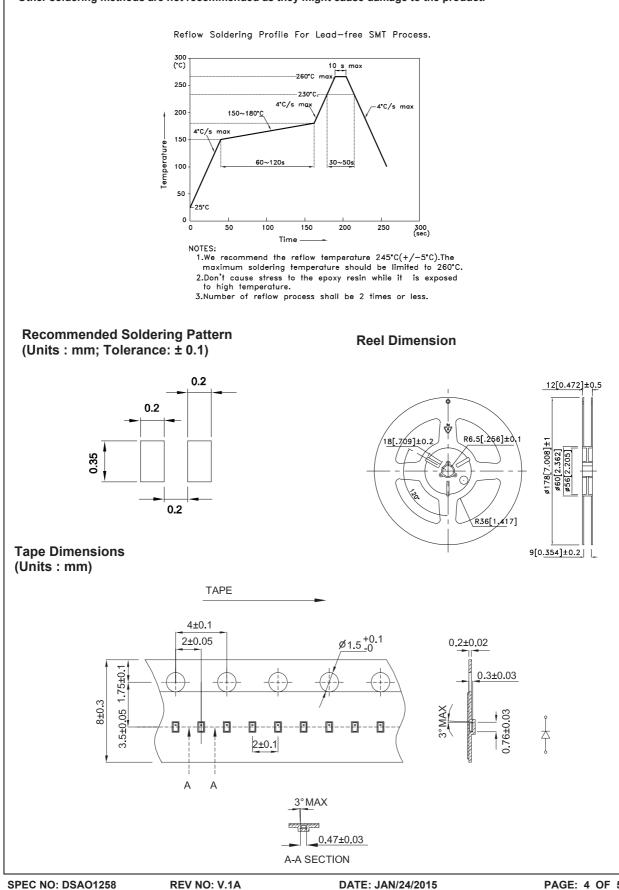
Note:

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



#### KPG-0603SEC-E-TT

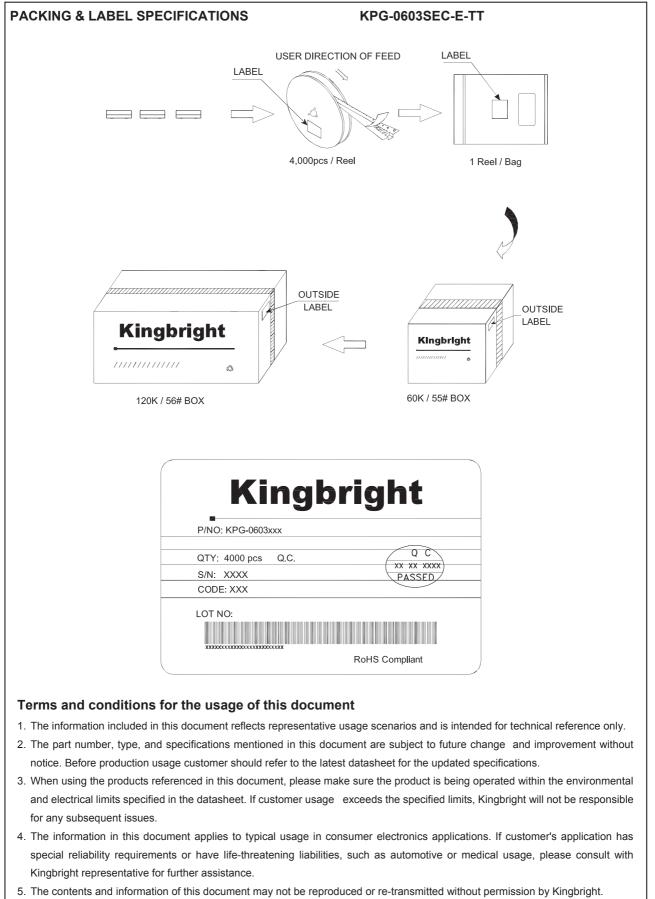
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.



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6. All design applications should refer to Kingbright application notes available at http://www.kingbright.com/application\_notes

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