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

Part Number: KPT-2012SURCK Hyper Red

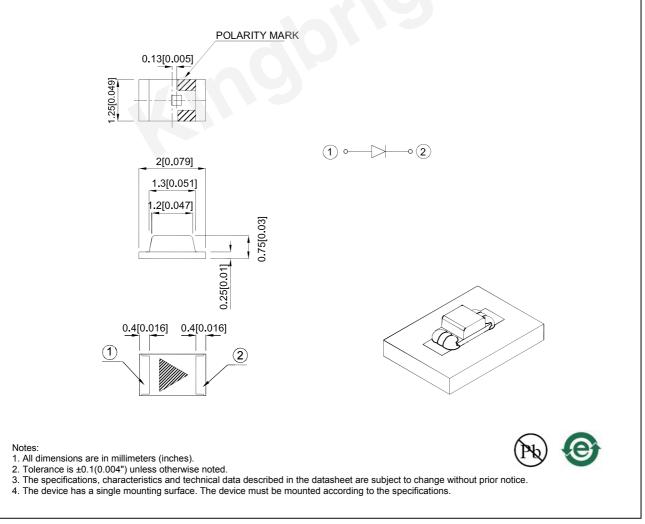
#### Features

- 2.0mm x1.25mm SMD LED,0.75mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

#### Description

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

### **Package Dimensions**



SPEC NO: DSAB1886 APPROVED: Wynec REV NO: V.20A CHECKED: Allen Liu DATE: MAY/24/2016 DRAWN: L.T.Zhang PAGE: 1 OF 5 ERP: 1203001884

### Solaction Guida

Selection Guide					
Part No.	Emitting Color (Material)	Emitting Color (Material) Lens Type @ 20mA			Viewing Angle [1]
			Min.	Тур.	201/2
KPT-2012SURCK	Hyper Red (AlColnD)	Water Clear	120	230	140°
RF1-201230RCK	Hyper Red (AlGaInP)		*40	*80	

Notes:

1.  $\theta$ 1/2 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 CIE127-2007 standards.

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

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	645		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red	630		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	28		nm	I⊧=20mA
С	Capacitance	Hyper Red	35		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red	1.95	2.5	V	I⊧=20mA
IR	Reverse Current	Hyper Red		10	uA	VR=5V

Notes: 1. Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. 3. Wavelength value is traceable to CIE127-2007 standards.

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

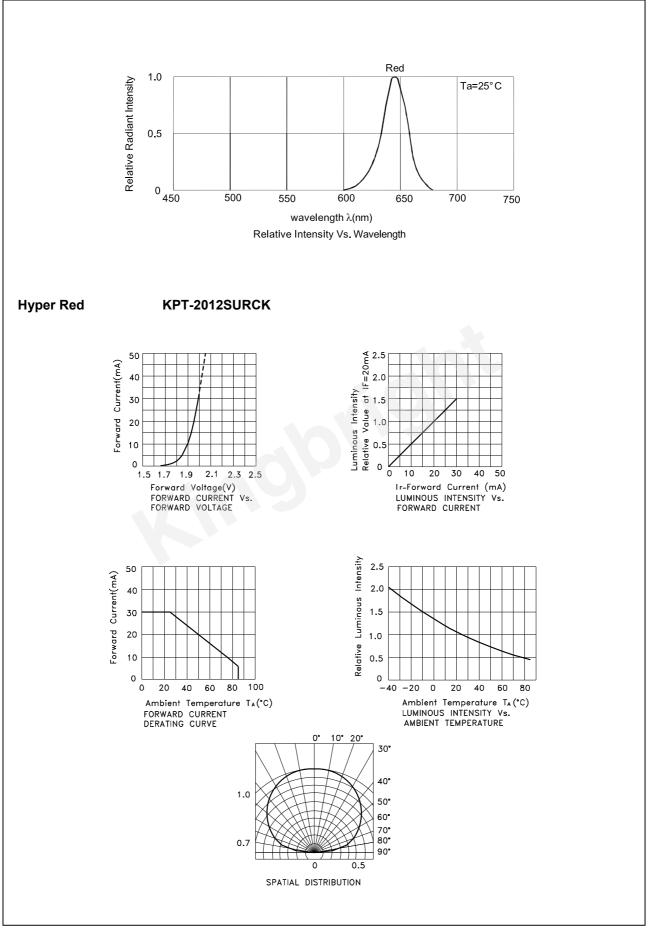
#### Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	185	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

Notes

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

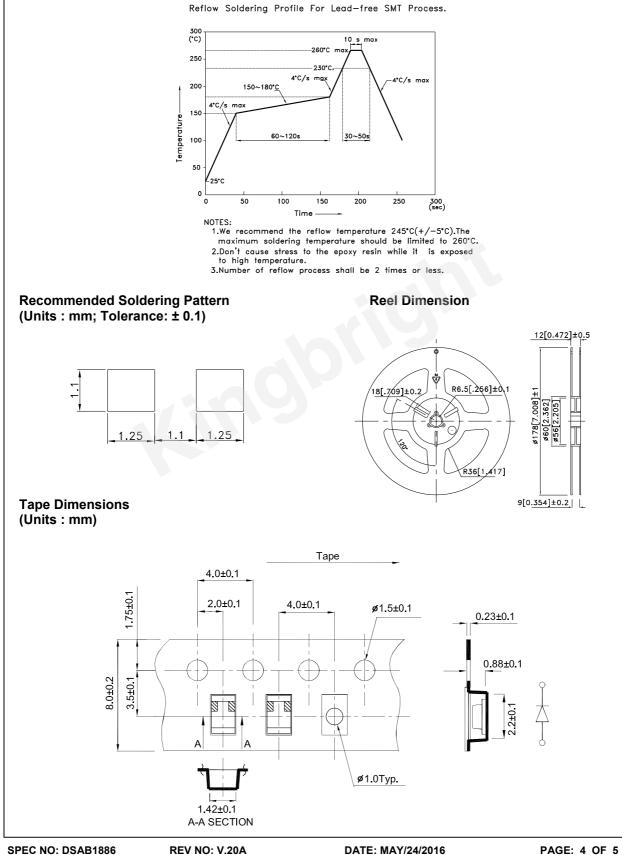
Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.



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### KPT-2012SURCK

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.

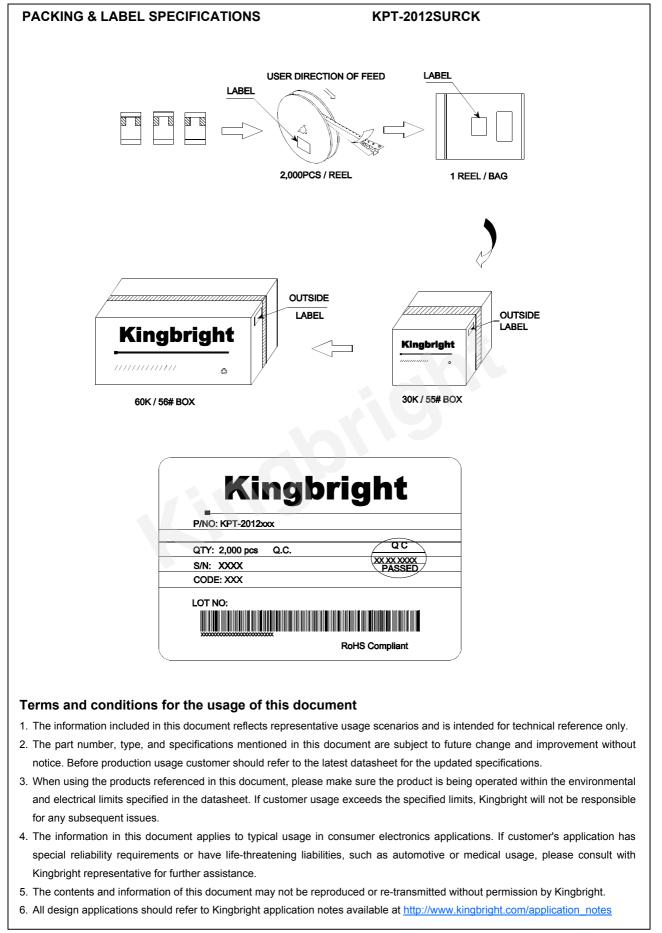


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