1.6X0.8mm SMD CHIP LED LAMP (0.25mm Height)

Part Number: KPG-1608SURKC-T

Hyper Red

Features

- 1.6mmX0.8mm SMD LED, 0.25mm thickness.
- Low power consumption.
- Wide viewing angle.
- Compatible with automatic placement equipment.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

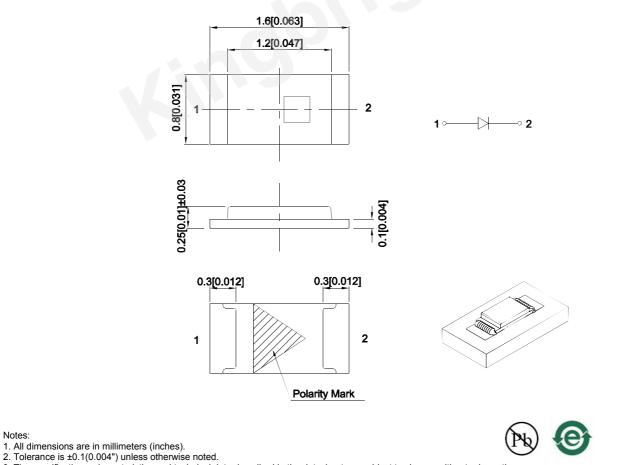
Description

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

Applications

1. Mobile phone Keypad indicator and backlight. 2.Flat backlight for LCD, switch and symbol. 3.Toys.

Package Dimensions



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.

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Selection Guide					
Part No.	Emitting Color (Material)	Emitting Color (Material) Lens Type @ 20mA			Viewing Angle [1]
			Min.	Тур.	201/2
KPG-1608SURKC-T	Hyper Red (AlColnD)	Water Clear	200	350	120°
	Hyper Red (AlGaInP)	Water Clear	*55	*110	

Notes:

1. θ 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	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	20		nm	I⊧=20mA
С	Capacitance	Hyper Red	35		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red	2	2.5	V	I⊧=20mA
IR	Reverse Current	Hyper Red		10	uA	VR=5V

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

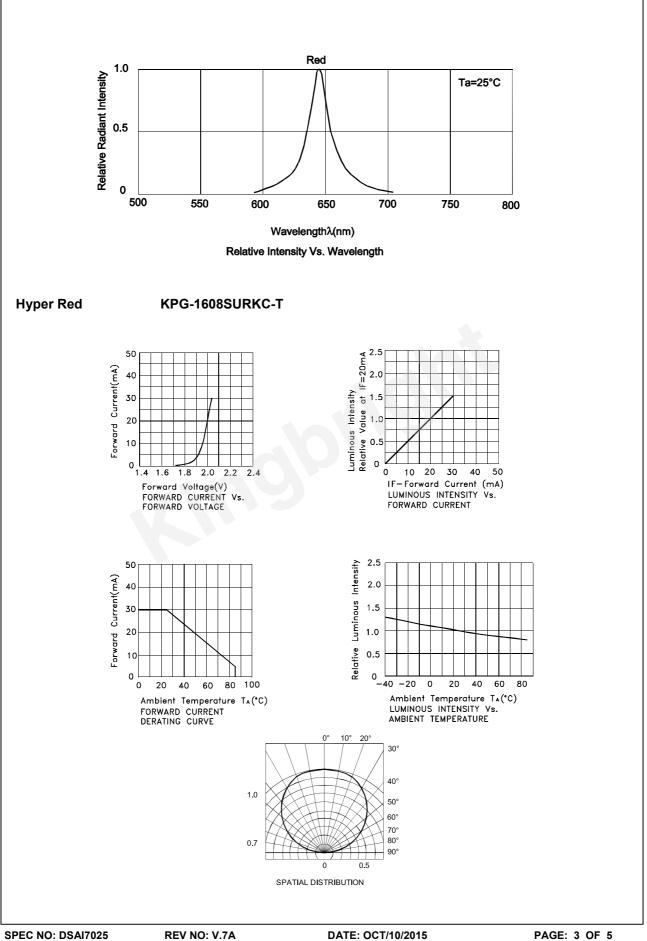
Wavelength value is traceable to the CIE127-2007 compliant national standards.
Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Electrostatic Discharge Threshold (HBM)	3000	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

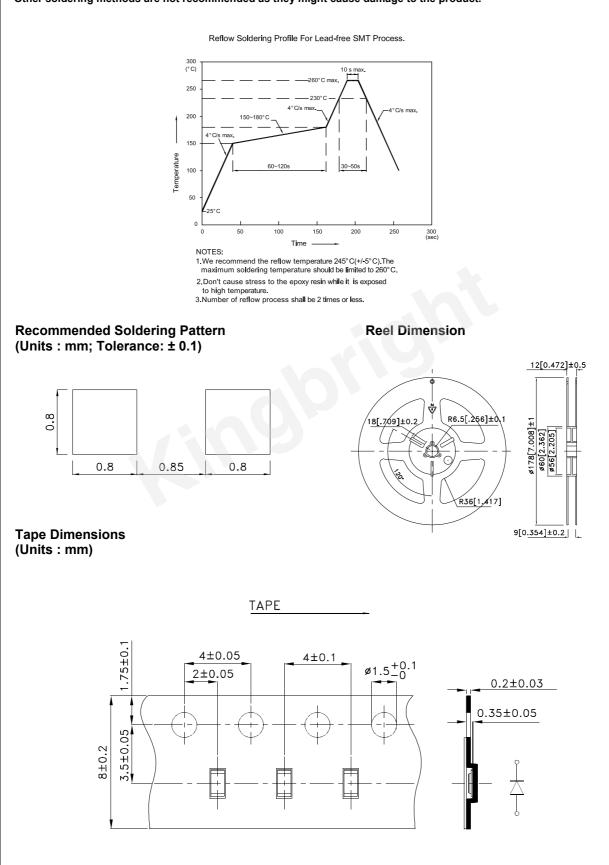
Note:

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

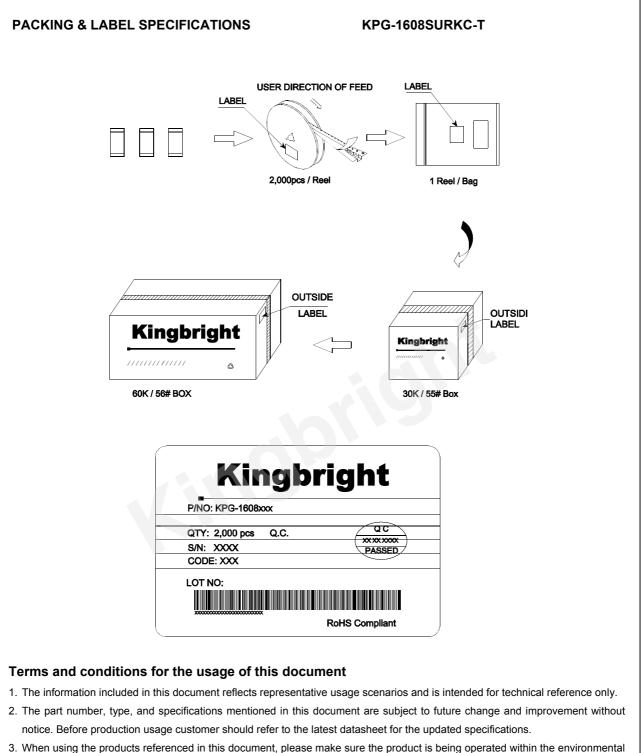


KPG-1608SURKC-T

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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- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
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