

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

Part Number: KPG-0603SURC-TT Hyper Red

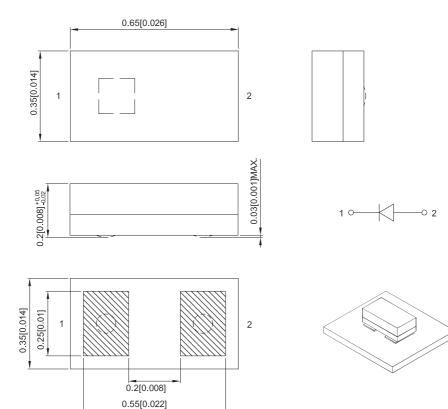
Features

- 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-GaInP on GaAs substrate Light Emitting Diode.

Package Dimensions



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.1(0.004") unless otherwise noted.
- 3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

 4. The device has a single mounting surface. The device must be mounted according to the specifications.

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Selection Guide

Part No.	Part No. Dice Lens Type		lv (mcd) [2] @ 10mA		Viewing Angle [1]
		, , , , , , , , , , , , , , , , , , ,	Min.	Тур.	201/2
KPG-0603SURC-TT	Hyper Red (AlGalnP)	Water Clear	30	105	- 135°
		Water Clear	*10	*35	

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 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	639		nm	IF=10mA
λD [1]	Dominant Wavelength	Hyper Red	631		nm	IF=10mA
Δλ1/2	Spectral Line Half-width	Hyper Red	20		nm	IF=10mA
VF [2]	Forward Voltage	Hyper Red	1.95	2.35	V	IF=10mA
lR	Reverse Current	Hyper Red		10	uA	V _R =5V

Notes:

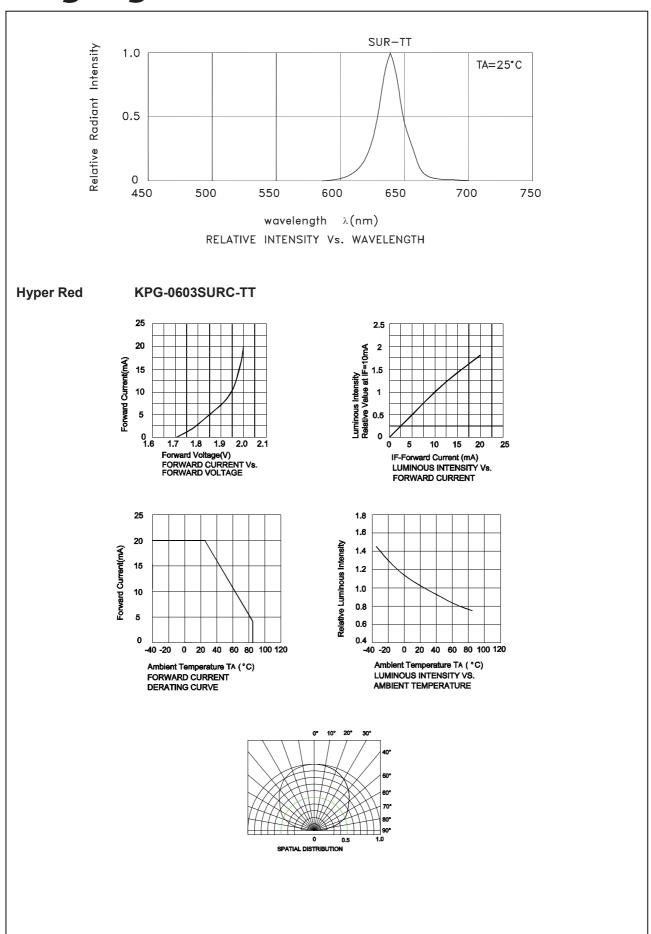
- 1.Wavelength: +/-1nm.
- 2.Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.
 4. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Hyper Red	Units					
48	mW					
20	mA					
100	mA					
5	V					
-40°C To +85°C						
-40°C To +85°C						
	Hyper Red 48 20 100 5 -40°C To +85°C					

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

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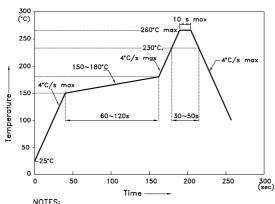
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KPG-0603SURC-TT

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.

Reflow Soldering Profile For Lead-free SMT Process.

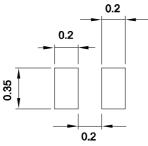


- NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C.
- 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3. Number of reflow process shall be 2 times or less.

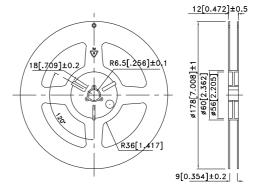
Recommended Soldering Pattern

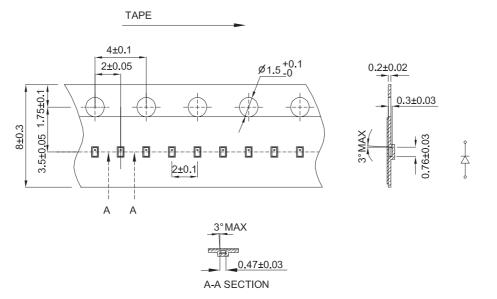
(Units: mm; Tolerance: ± 0.1)

Reel Dimension

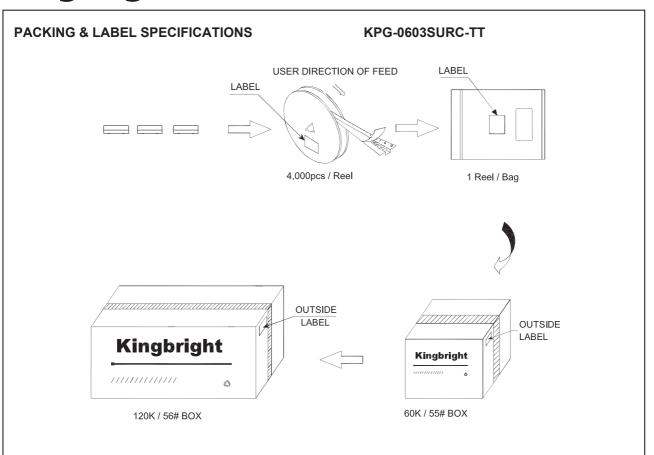


Tape Dimensions (Units: mm)





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