

1.6X0.8mm SMD CHIP LED LAMP

Part Number: KPTD-1608SURCK Hyper Red

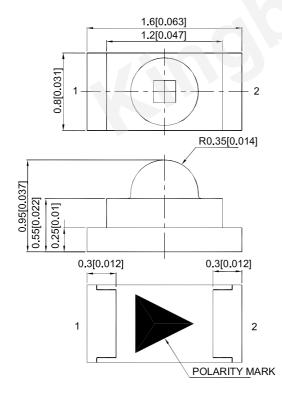
Features

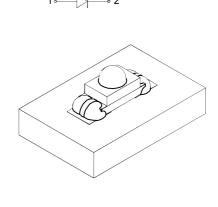
- 1.6mmX0.8mm SMD LED, 0.95mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

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

Package Dimensions





- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.15(0.006") unless otherwise noted.
- 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)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		, , , , , , , , , , , , , , , , , , ,	Min.	Тур.	201/2
KDTD 40000 IDOK	Hyper Red (AlGaInP)	Water Clear	400	800	- 60°
KPTD-1608SURCK			*80	*250	

Notes:

- 1. 01/2 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

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

Notes:

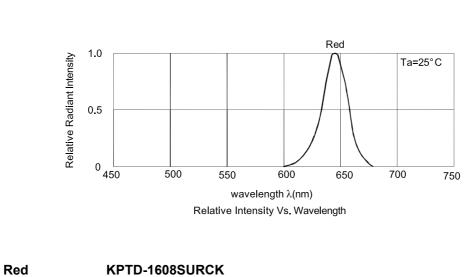
- 1. Wavelength: +/-1nm.
 2. Forward Voltage: +/-0.1V.
 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.
- 4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

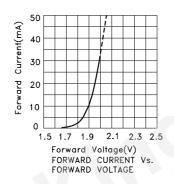
Parameter	Values	Units		
Power dissipation	75			
DC Forward Current	30	mA		
Peak Forward Current [1]	185	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C	-40°C To +85°C		
Storage Temperature	-40°C To +85°C	-40°C To +85°C		

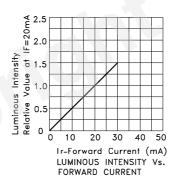
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

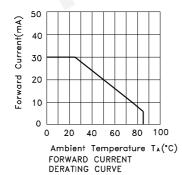
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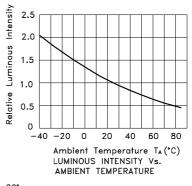


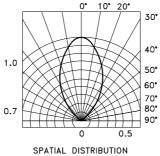
Hyper Red











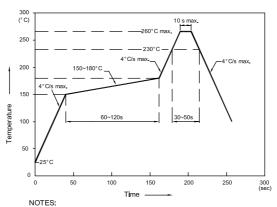
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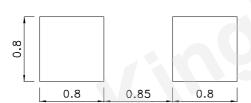
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.

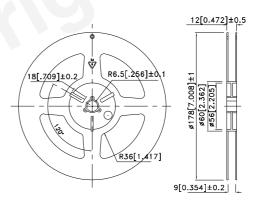


- 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C.
- 2. Don't cause stress to the epoxy resin while it is exposed
- to high temperature.
 3.Number of reflow process shall be 2 times or less.

Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

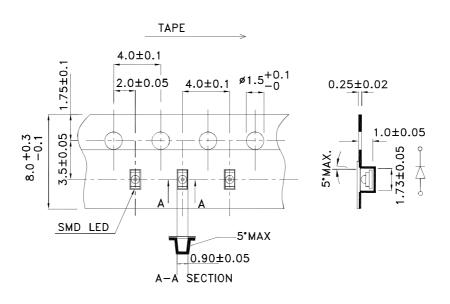


Reel Dimension



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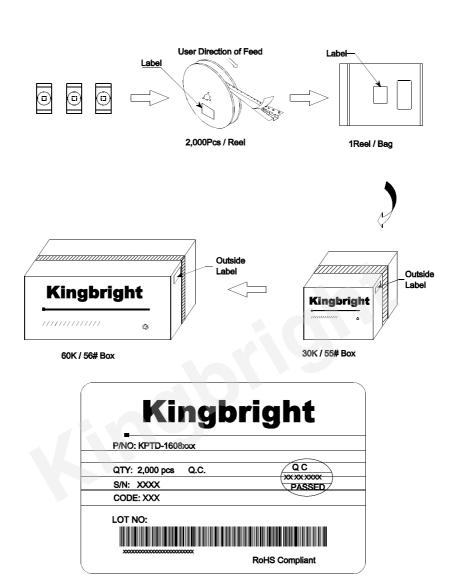
Tape Dimensions (Units: mm)



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PACKING & LABEL SPECIFICATIONS

KPTD-1608SURCK



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