1.6X0.8mm SMD CHIP LED LAMP

Part Number: KPHD-1608SURCK

Hyper Red

PRELIMINARY SPEC



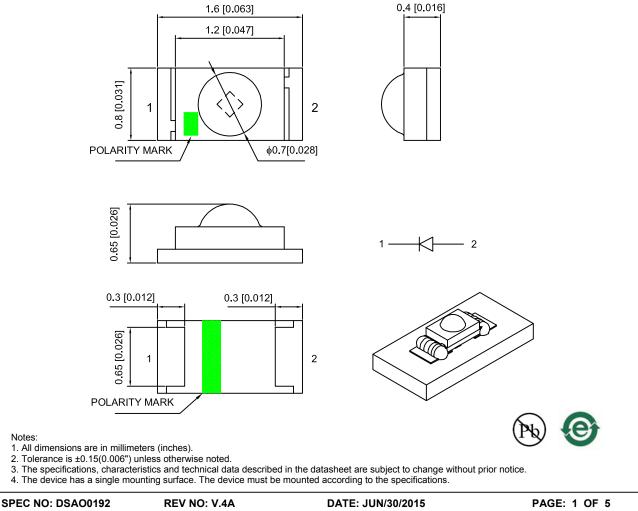
Description

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

Features

- 1.6mmX0.8mm SMT LED, 0.65mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package: 4000pcs / reel .
- Moisture sensitivity level : level 3.
- RoHS compliant.

Package Dimensions



APPROVED: Wynec

CHECKED: Allen Liu

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Soloction Guido

Selection Guide								
Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]			
			Min.	Тур.	201/2			
KPHD-1608SURCK	Hyper Red (AlGaInP)	Water Clear	120	510	125°(H) 125°(V)			
			*40	*170				

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

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
lr	Reverse Current	Hyper Red		10	uA	VR=5V

Notes:

1.Wavelength: +/-1nm.

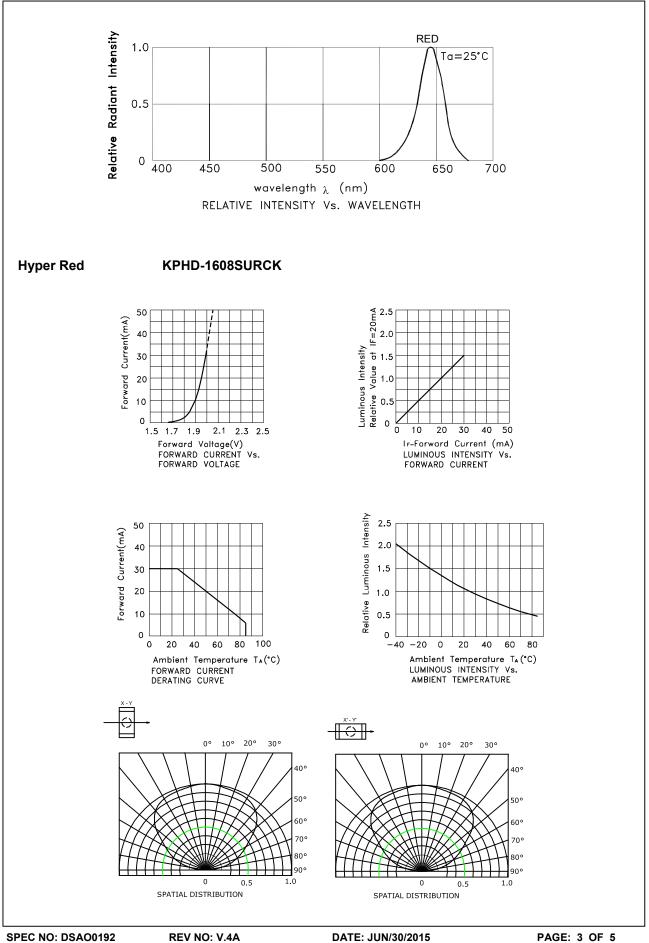
2.Forward Voltage: +/-0.1V.
3.Wavelength value is traceable to the CIE127-2007 compliant national standards.

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	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		

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



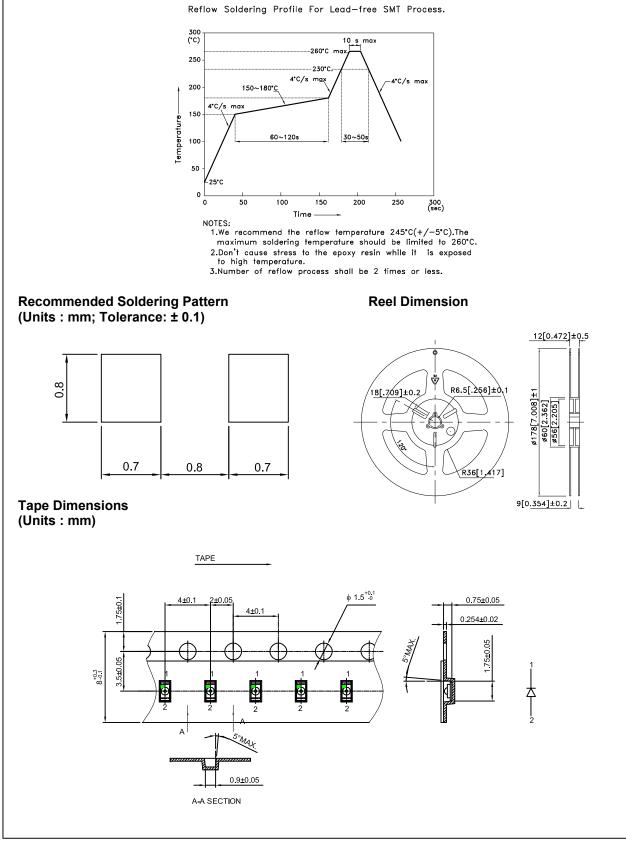
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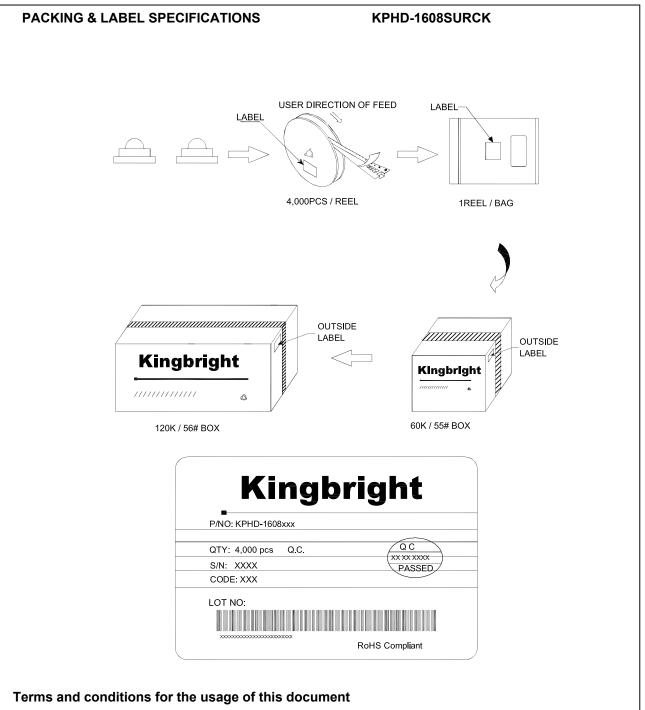
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.



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