

3.2x1.6mm SMD CHIP LED LAMP

Part Number: KP-3216SURCK

Hyper Red

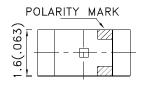
Features

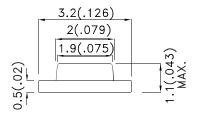
- 3.2mmx1.6mm SMT LED, 1.1mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

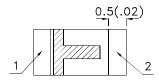
Description

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

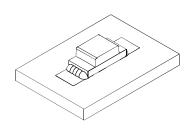
Package Dimensions











- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.2(0.0079") 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.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KP-3216SURCK	Hyper Red (AlGaInP)	Water Clear	120	230	120°

- Notes: 1. θ 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%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур. Мах.		Units	Test Conditions	
λpeak	Peak Wavelength	Hyper Red	650		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	I=20mA	
lR	Reverse Current	Hyper Red		10	uA	V _R =5V	

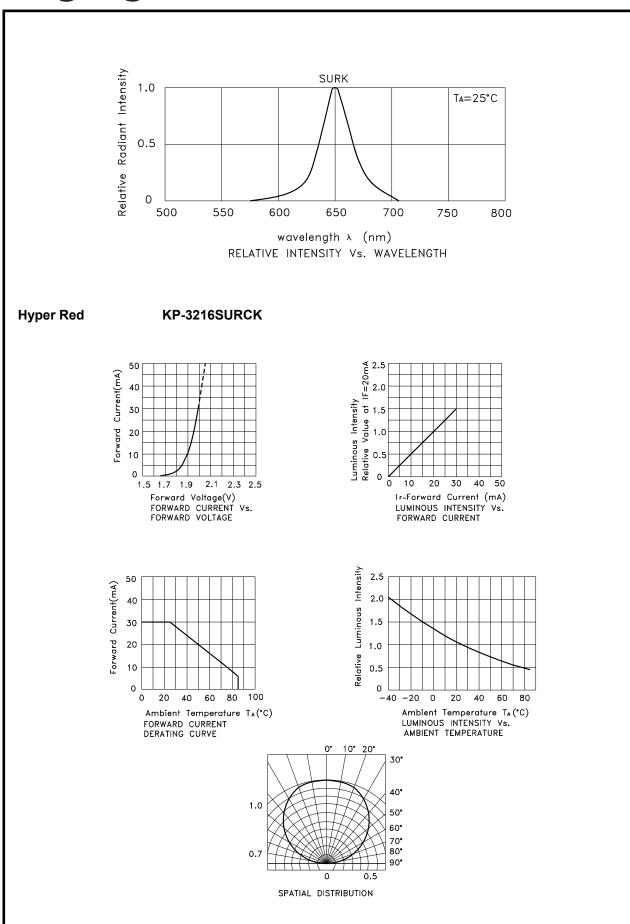
- Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Autobiato maximum raumgo at 171 20 0					
Hyper Red					
75	mW				
30	mA				
185	mA				
5	V				
-40°C To +85°C	·				
-40°C To +85°C					
	Hyper Red 75 30 185 5 -40°C To +85°C				

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

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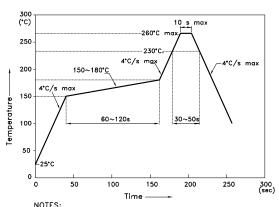
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

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.

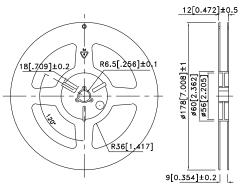
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
 - to high temperature.

 3.Number of reflow process shall be 2 times or less.

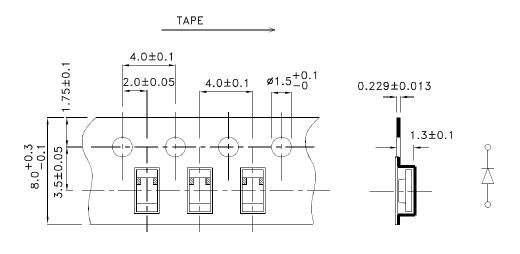
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Reel Dimension

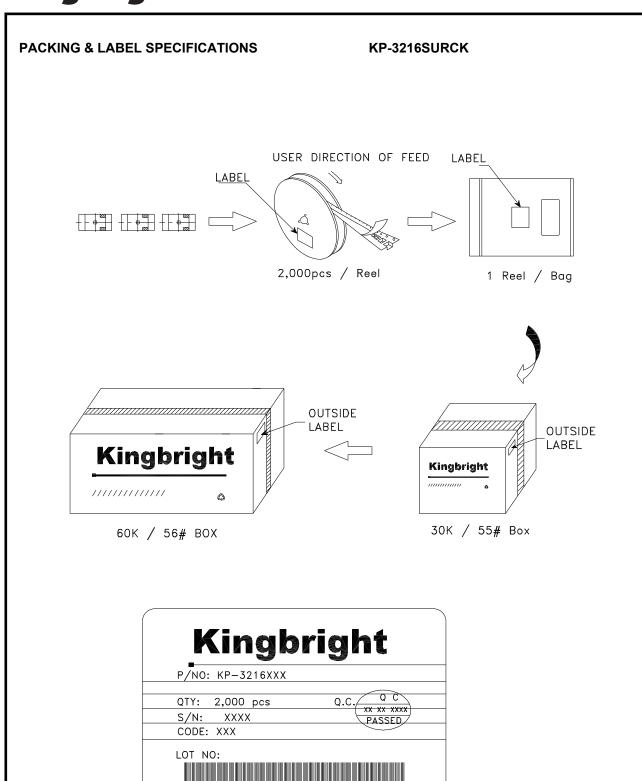


Tape Dimensions (Units: mm)



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RoHS Compliant

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