### 3.2x1.0mm RIGHT ANGLE SMD CHIP LED LAMP

Part Number: KPA-3210SURCK Hyper Red

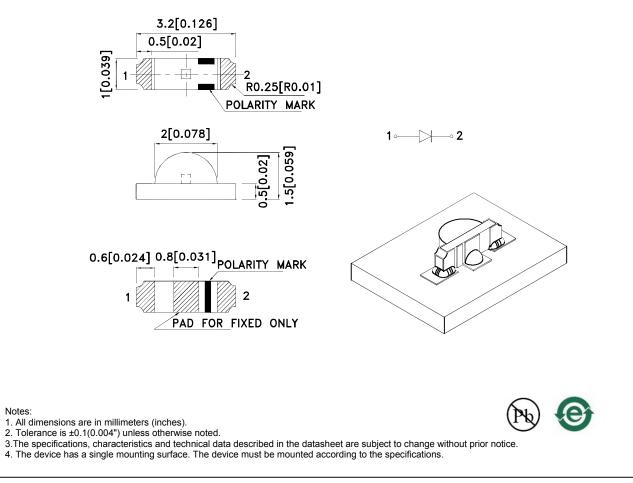
#### Features

- 3.2mmx1.0mm right angle SMT LED, 1.5mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

#### Description

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

#### **Package Dimensions**



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### Selection Guide

Selection Guide			r		
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPA-3210SURCK	Hyper Red (AlGaInP)	Water Clear	120	220	120°
		Water Clear	*40	*80	

Notes: 1. θ1/2 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	Ту	/p.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	650	*645		nm	IF=20mA
λD [1]	Dominant Wavelength	Hyper Red	630	*630		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	2	28		nm	IF=20mA
С	Capacitance	Hyper Red	3	5		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

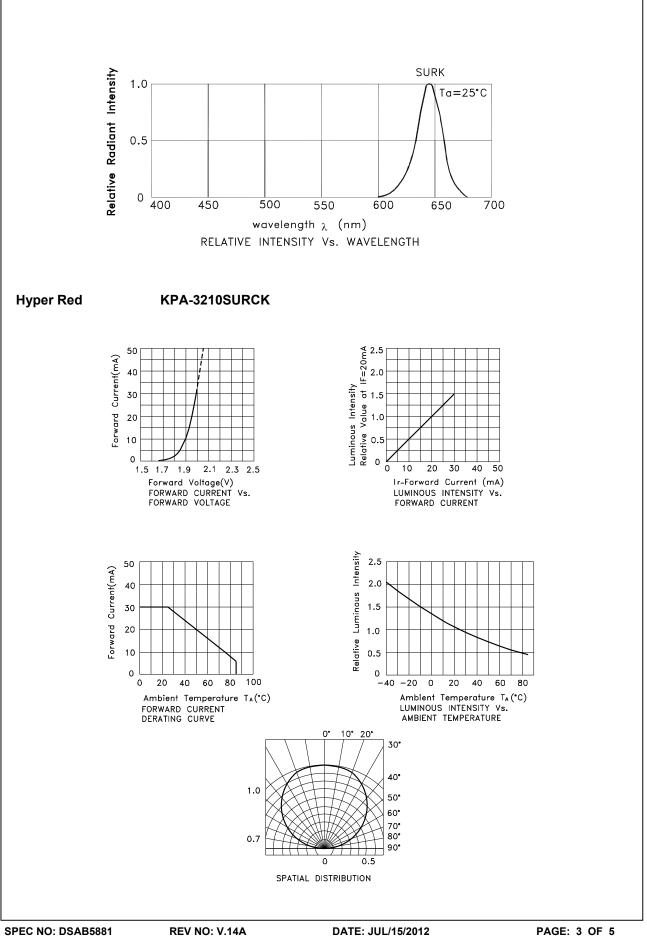
Notes:

1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. \* Wavelength value is traceable to the CIE127-2007 compliant national standards.

#### Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red	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.



### KPA-3210SURCK

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.

