

3.2x2.4mm RIGHT ANGLE SMD CHIP LED **LAMP**

Part Number: KPEKA-3224SURCK Hyper Red

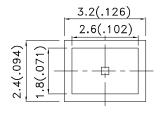
Features

- 3.2mmx2.4mm RIGHT ANGLE SMT LED, 2.4mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE: 1500PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 4.
- RoHS COMPLIANT.

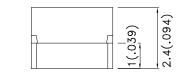
Description

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

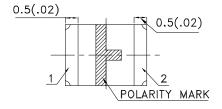
Package Dimensions

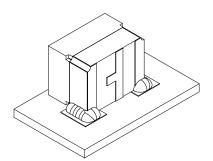












- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.2 (0.0079")$ unless otherwise noted.
- 3. Specifications are subject to change without notice.4. The device has a single mounting surface. The device must be mounted according to the specifications.





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Selection Guide

Part No.	Dice	Dice Lens Type		cd) [2] DmA	Viewing Angle [1]
		-	Min.	Тур.	201/2
KPEKA-3224SURCK	Hyper Red (InGaAIP)	WATER CLEAR	110	250	90°

- 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
- 2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	650		nm	IF=20mA
λD [1]	Dominant Wavelength	Hyper Red	635		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.

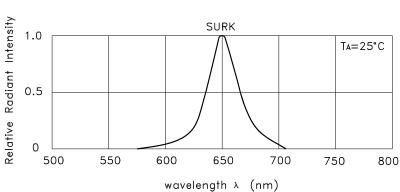
Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red		
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		

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

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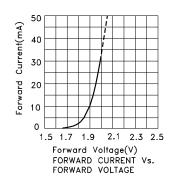
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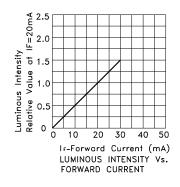


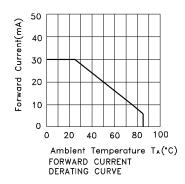
RELATIVE INTENSITY Vs. WAVELENGTH

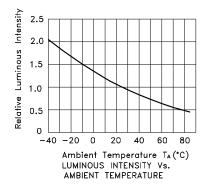
Hyper Red

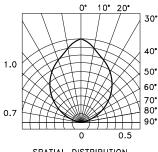
KPEKA-3224SURCK











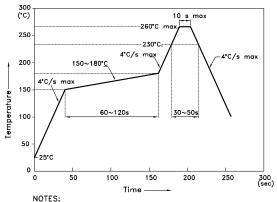
SPATIAL DISTRIBUTION

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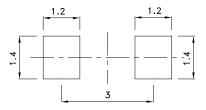
Reflow Soldering Profile For Lead-free SMT Process.



- 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)



Tape Specifications (Units: mm)

TAPE 4.0±0.05 0.23 ± 0.05 2.0 ± 0.05 4.0±0.1 2.55 ± 0.1 8.0±0.2 3.5±0.

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