

2.0x1.25mm SMD CHIP LED LAMP

PRELIMINARY SPEC

Part Number: KPHCM-2012SURCK

HYPER RED

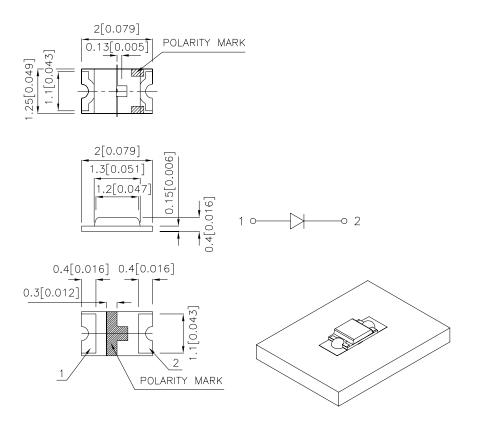
Features

- •2.0X1.25mm SMT LED,0.5mm MAX.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 DH InGaAIP on GaAs substrate Light Emitting Diode.

Package Dimensions



Notes:

- All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1(0.004")$ 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		Iv (mcd)[2] @ 20mA	
			Min.	Тур.	201/2
KPHCM-2012SURCK	HYPER RED (InGaAIP)	WATER CLEAR	50	150	110°

- 1. 01/2 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
IR	Reverse Current	Hyper Red		10	uA	VR= 5V

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

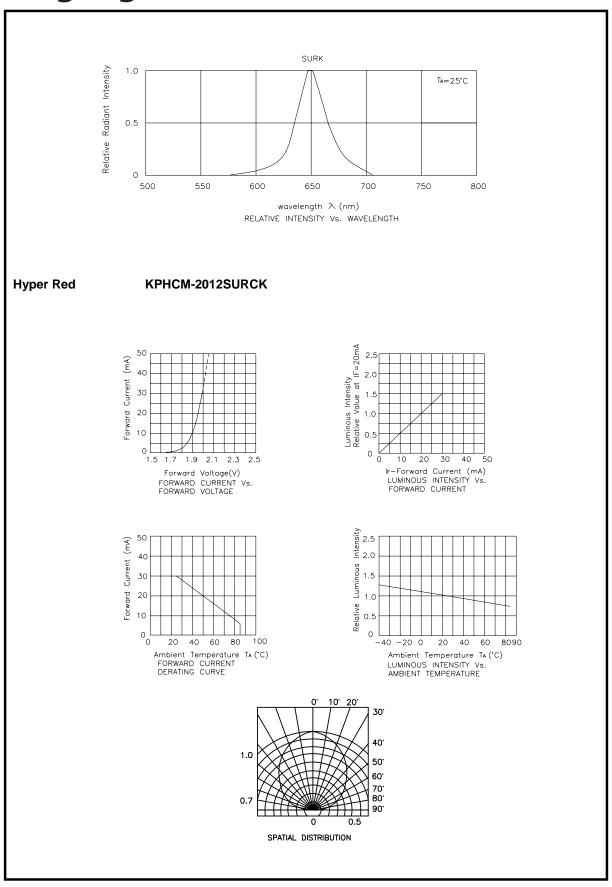
Absolute Maximum Ratings at Ta=25°C

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

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

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Kingbright

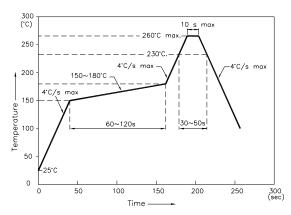


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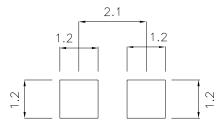
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Reflow Soldering Profile For Lead-free SMT Process.

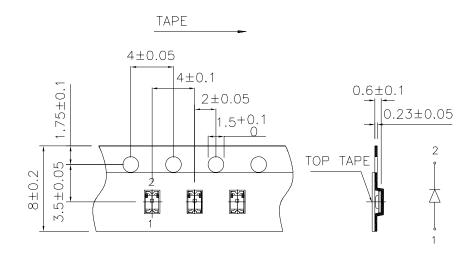


- NOTES: 1.We recommend the reflow temperature 245°C(\pm 0.The temperature should be limited to 260°C. maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed
 - to high temperature. 3. Number of reflow process shall be 2 times or less.

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



Tape Specifications (Units: mm)



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