



KP-2012SURC HYPER RED

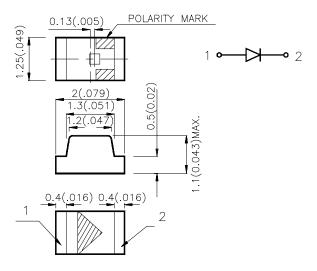
Features

- •2.0mmx1.2mmSMTLED,1.1mmTHICKNESS.
- •LOW POWER CONSUMPTION.
- •WIDE VIEWING ANGLE.
- •IDEAL FOR BACKLIGHT AND INDICATOR.
- •VARIOUS COLORS AND LENS TYPES AVAILABLE.
- •PACKAGE: 2000PCS/REEL.

Description

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

Package Dimensions



Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1 (0.004")$ unless otherwise noted.
- 3. Lead spacing is measured where the lead emerge package.
- 4. Specifications are subject to change without notice.

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 20 mA		Viewing Angle
			Min.	Тур.	201/2
KP-2012SURC	HYPER RED (InGaAIP)	WATER CLEAR	70	150	120°

Note:

Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	640		nm	IF=20mA
λD	Dominate Wavelength	Hyper Red	628		nm	IF=20mA
Δλ1/2	Spectral Line Halfwidth	Hyper Red	27		nm	IF=20mA
С	Capacitance	Hyper Red	45		pF	VF=0V;f=1MHz
V _F	Forward Voltage	Hyper Red	1.9	2.5	V	IF=20mA
I _R	Reverse Current	Hyper Red		10	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

Parameter	Hyper Red		
Power dissipation	170	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		

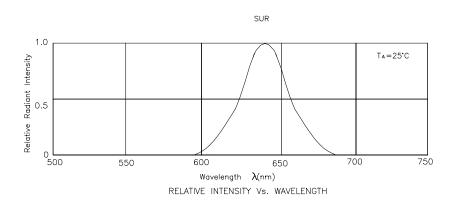
Note:

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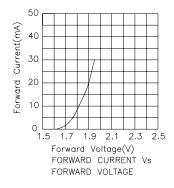
^{1.} θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

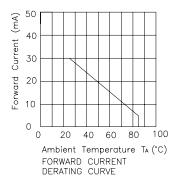
^{1. 1/10} Duty Cycle, 0.1ms Pulse Width.

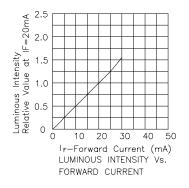


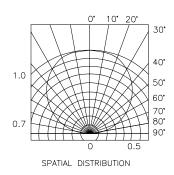


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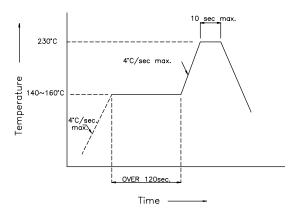


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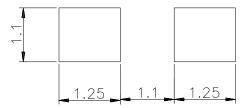
Kingbright

KP-2012SURC SMT Reflow Soldering Instructions

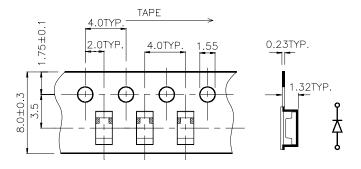
Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



Recommended Soldering Pattern (Units:mm)



Tape Specifications (Units:mm)



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