3.0mmx1.0mm RIGHT ANGLE SMD CHIP LED LAMP

Part Number: KPBA-3010SURKMGKC

Hyper Red Mega Green

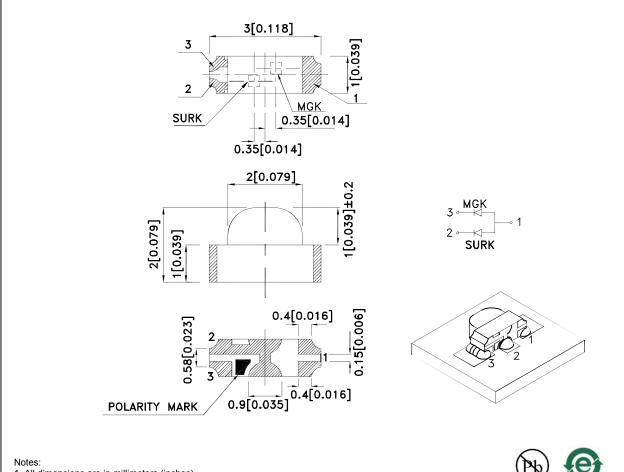
Features

- 3.0mmx1.0mm right angle SMT LED, 2.0mm thickness.
- Low power consumption.
- · Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package : 2000 pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

Package Dimensions

Description

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



1. All dimensions are in millimeters (inches).

2. Tolerance is ±0.15(0.006") unless otherwise noted.

The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
 The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAA2090 **APPROVED: WYNEC**

REV NO: V.14A CHECKED: Allen Liu

DATE: NOV/02/2011 **DRAWN: C.H.Han**

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPBA-3010SURKMGKC	Hyper Red (AlGaInP)	Water Clear	120	300	- 140°
			40*	80*	
	Mega Green (AlGaInP)		50	80	
			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 Mega Green	650 574	645* 574*		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red Mega Green	630 570	630* 570*		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red Mega Green	28 20			nm	IF=20mA
С	Capacitance	Hyper Red Mega Green	-	5 5		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red Mega Green		95 .1	2.5 2.5	V	IF=20mA
lr	Reverse Current	Hyper Red Mega Green			10 10	uA	VR = 5V

Notes:

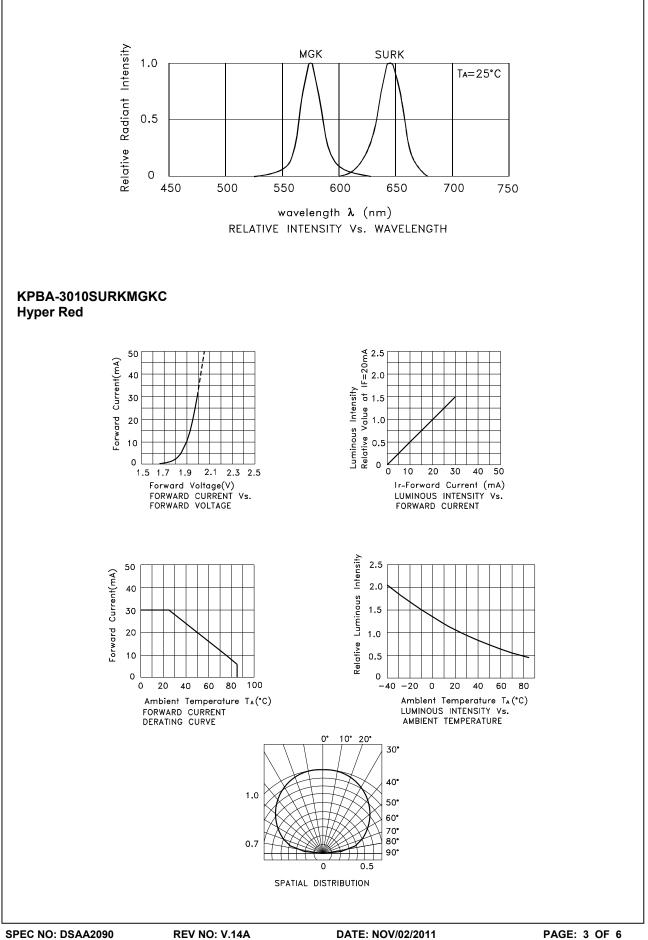
1.Wavelength: +/-1nm.

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

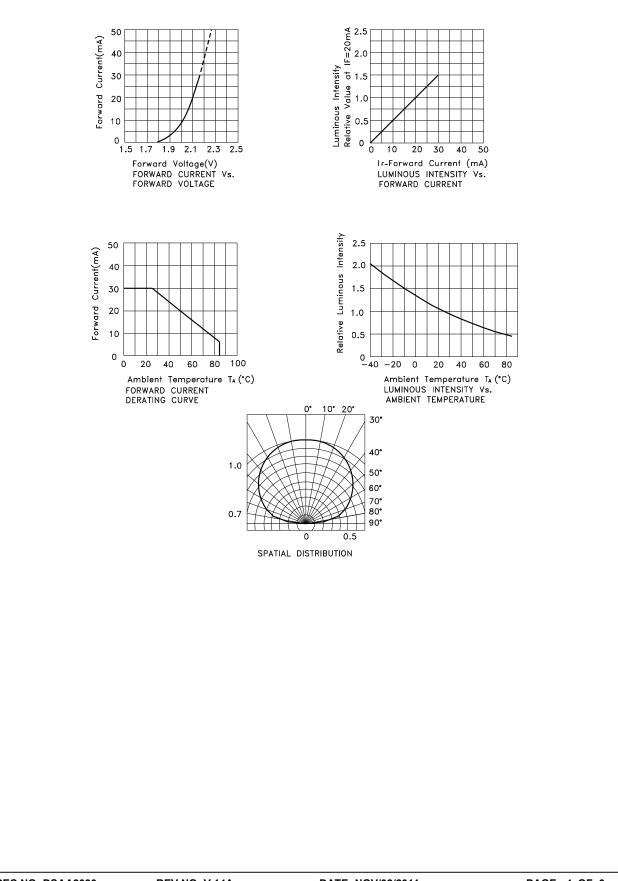
Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red	Mega Green	Units			
Power dissipation	75	75	mW			
DC Forward Current	30	30	mA			
Peak Forward Current [1]	185	150	mA			
Reverse Voltage		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.



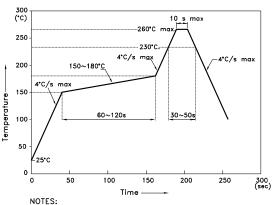
Mega Green



KPBA-3010SURKMGKC

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.

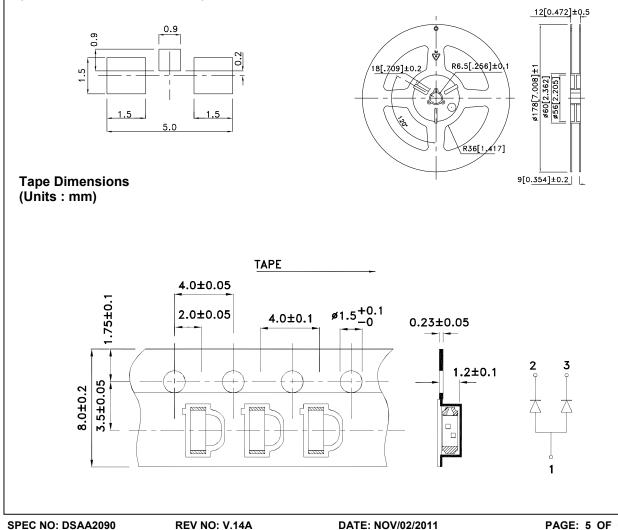
Reflow Soldering Profile For Lead-free SMT Process.



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



Reel Dimension



APPROVED: WYNEC

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