3.0x2.5mm SURFACE MOUNT LED LAMP

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- 3.0mmx2.5mm SMT LED, 1.4mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for back light and indicator.
- Various colors and lens types available.
- Inner lens type.
- Moisture sensitivity level : level 3.
- Package : 2000pcs / reel.
- RoHS compliant.

Part Number: KPBL-3025SURKZGC

Hyper Red Green

Description

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

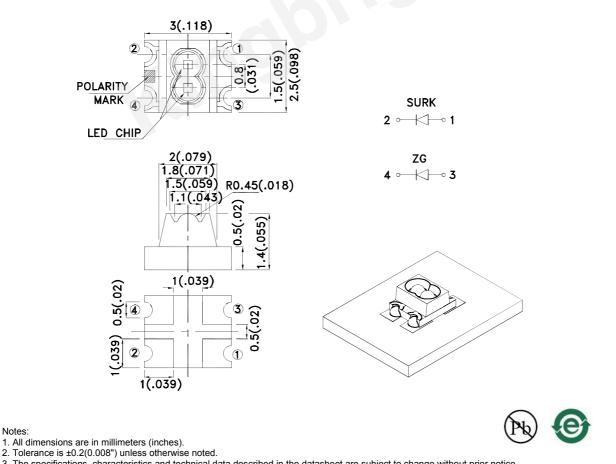
The Green source color devices are made with InGaN

on Sapphire Light Emitting Diode. Static electricity and surge damage the LEDS.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Package Dimensions



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: DSAG4297 **APPROVED: WYNEC**

REV NO: V.4A CHECKED: Allen Liu

DATE: APR/15/2013 DRAWN: F.Cui

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Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPBL-3025SURKZGC	Hyper Red (AlGaInP)	- Water Clear	400	600	- 100°
			*80	*200	
	Green (InGaN)		400	800	
			*400	*800	

Notes:

1. θ 1/2 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	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red Green	645 515		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red Green	630 525		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red Green	28 30		nm	I⊧=20mA
С	Capacitance	Hyper Red Green	35 45		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Hyper Red Green	1.95 3.3	2.5 4.1	V	I⊧=20mA
lr	Reverse Current	Hyper Red Green		10 50	uA	VR = 5V

Notes:

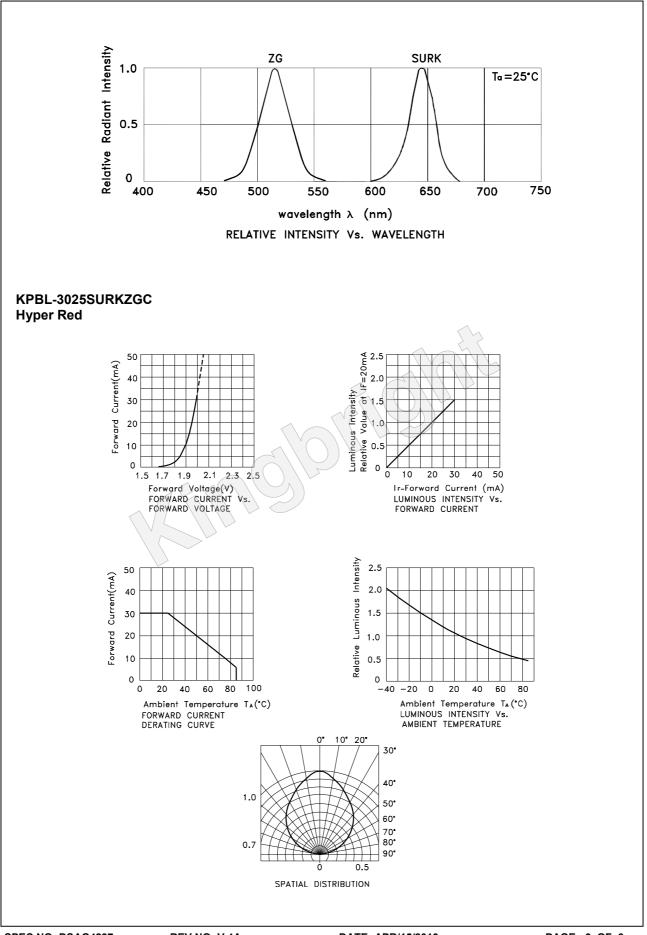
Wavelength: +/-1nm.
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

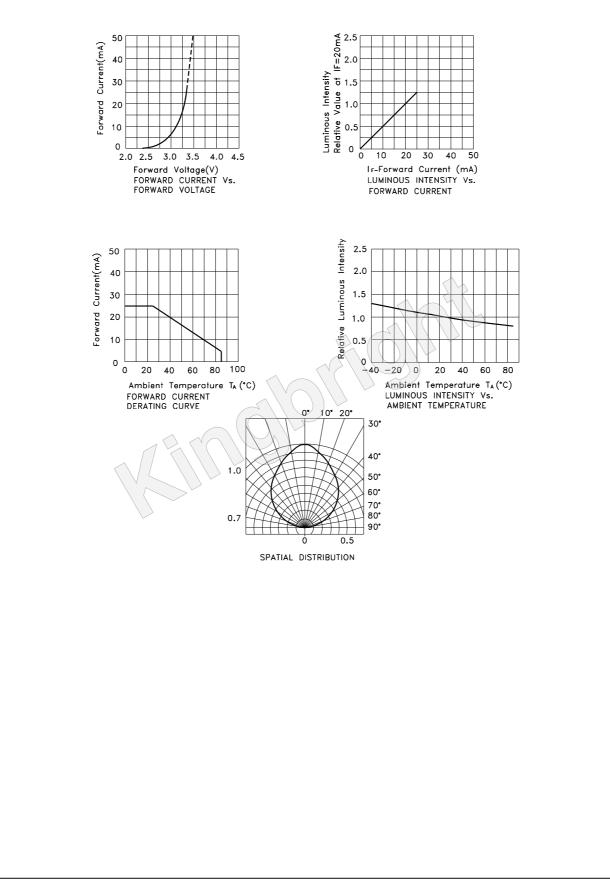
Parameter	Hyper Red	Green	Units		
Power dissipation	75	102.5	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	185	150	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note:

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

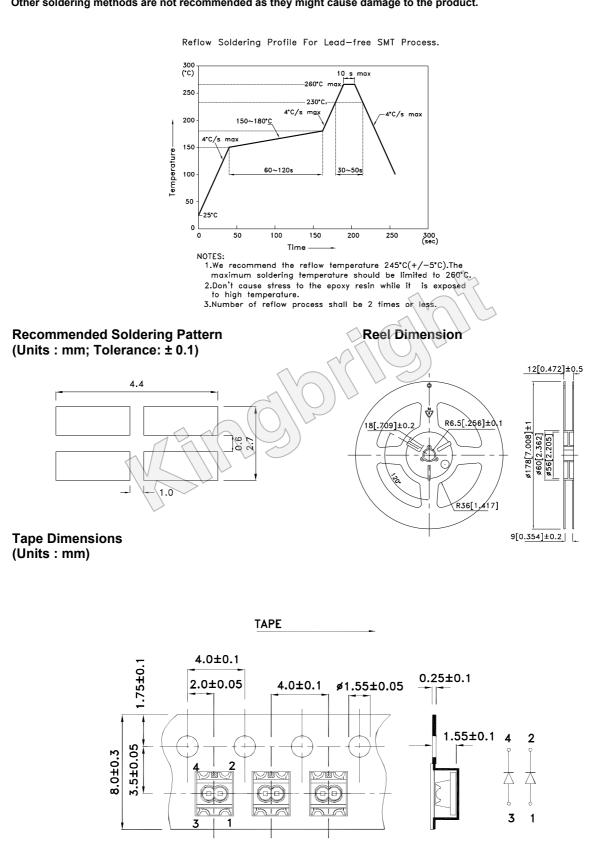


Green



KPBL-3025SURKZGC

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.



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