3.2x2.7mm SURFACE MOUNT LED LAMP



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- 3.2mmx2.7mm SMT LED, 1.1mm thickness.
- Bi -color, 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 Al-GaInP on GaAs substrate Light Emitting Diode.

The Green source color devices are made with InGaN

on Sapphire Light Emitting Diode.

Part Number: APB3227SURKZGC

Green

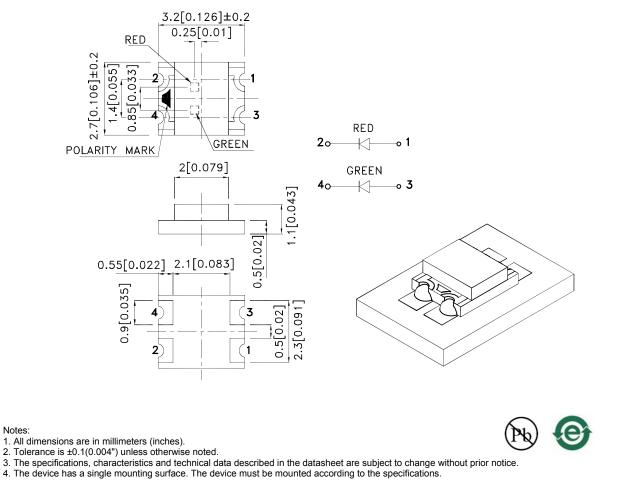
Hyper Red

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



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DATE: AUG/23/2012 **DRAWN: C.H.Han**

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Selection Guide lv (mcd) [2] Viewing @ 20mA Angle [1] Part No. Dice Lens Type 201/2 Min. Тур. 120 250 Hyper Red (AlGaInP) *80 *40 APB3227SURKZGC Water Clear 100° 200 400 Green (InGaN) *200 *400

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 Green	650 515	*645 *515		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red Green	630 525	630 525		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red Green		8 0		nm	I⊧=20mA
С	Capacitance	Hyper Red Green	_	5 5		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red Green		95 .3	2.5 4.1	V	I⊧=20mA
lr	Reverse Current	Hyper Red Green			10 50	uA	VR = 5V

Notes:

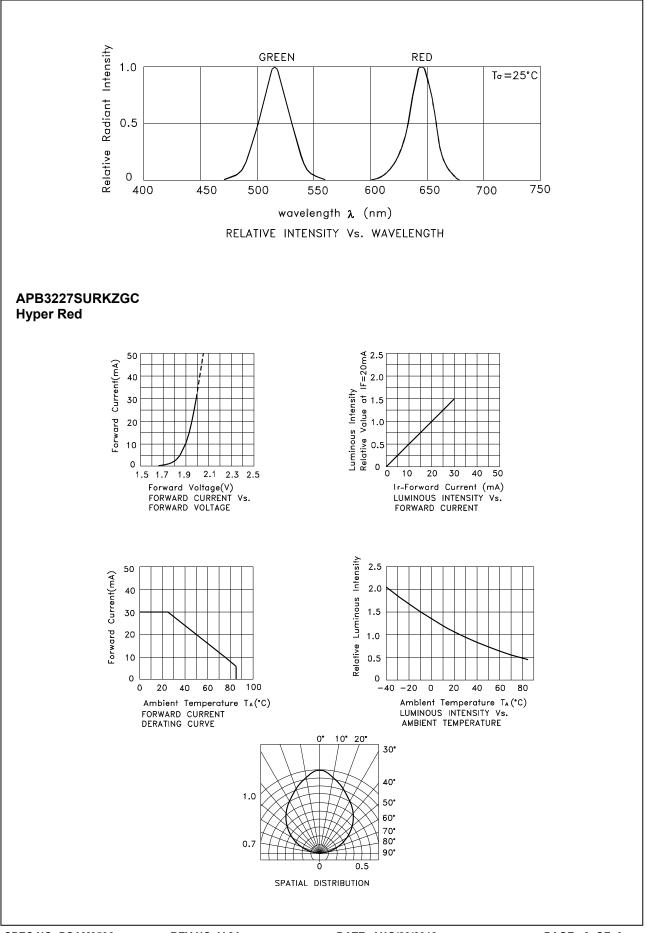
1.Wavelength: +/-1nm.

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

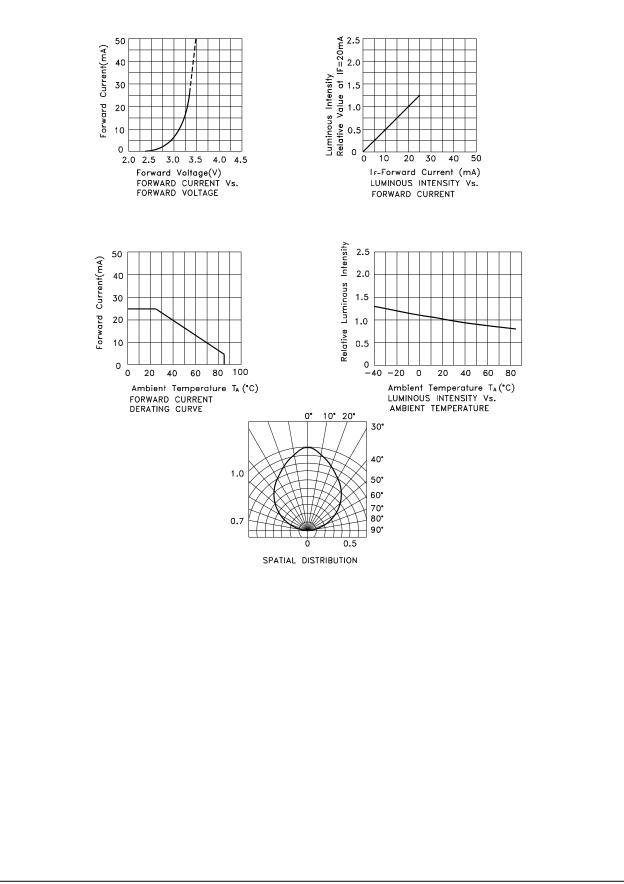
Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red Green		Units			
Power dissipation	75	102.5	mW			
DC Forward Current	30	25	mA			
Peak Forward Current [1]	185	150	mA			
Reverse Voltage	Ę	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.



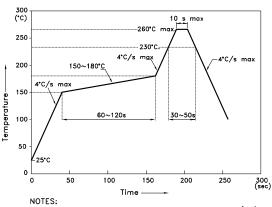
Green



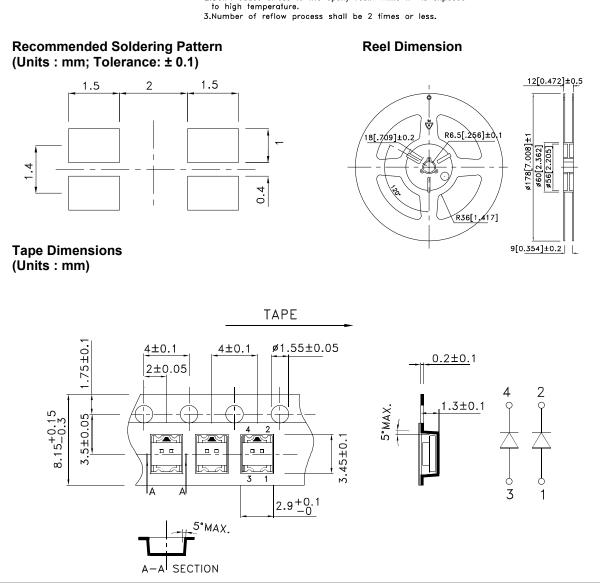
APB3227SURKZGC

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.

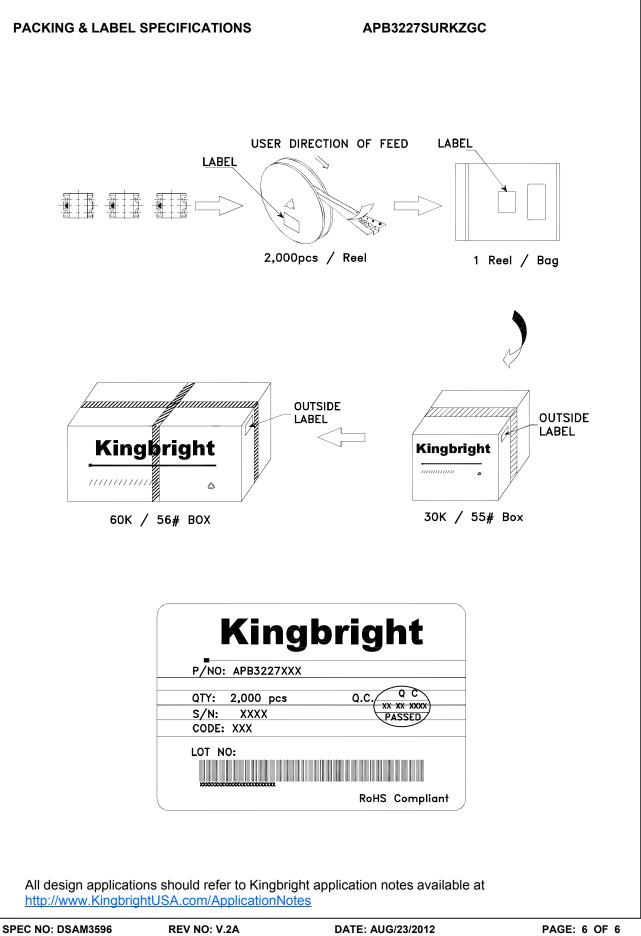
Reflow Soldering Profile For Lead-free SMT Process.



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.



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