**Features** 

ATTENTION

OBSERVE PRECAUTIONS FOR HANDLING

ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

• 3.2 mm x 2.7 mm SMD LED, 1.1 mm thickness

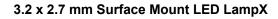
• Bi -color, low power consumption

Ideal for backlight and indicator
Package: 2000 pcs / reel

Moisture sensitivity level: 3

Wide viewing angle

RoHS compliant



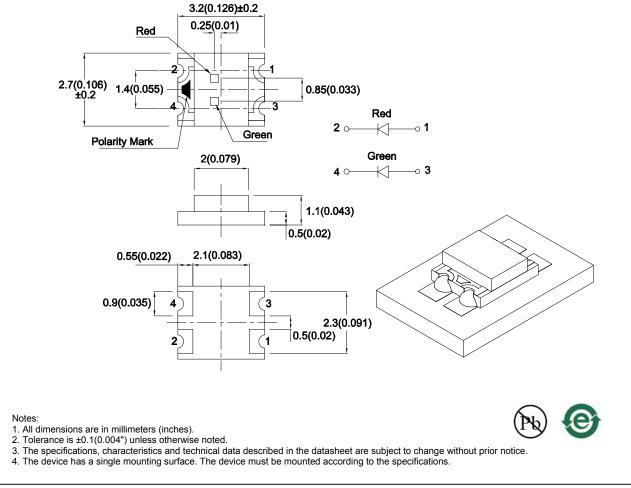
Part Number: APB3227SURKZGC

Hyper Red Green

#### Descriptions

- The Hyper Red source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.
- The Green source color devices are made with InGaN on Sapphire Light Emitting Diode.
- Electrostatic discharge and power surge could damage the LEDs.
- It is recommended to use a wrist band or antielectrostatic glove when handling the LEDs.
- All devices, equipments and machineries must be electrically grounded.

#### Package Dimensions



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#### **Selection Guide** Viewing lv (mcd) [2] @ 20mA Angle [1] Part No. **Emitting Color (Material)** Lens Type Min. 201/2 Тур. 120 250 Hyper Red (AlGaInP) \*40 \*80 APB3227SURKZGC Water Clear 140° 200 400 Green (InGaN) \*200 \*400

Notes:

1. 01/2 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 CIE127-2007 standards.

#### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red Green	645 515		nm	l⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red Green	630 525		nm	l⊧=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:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

3. Wavelength value is traceable to CIE127-2007 standards.

4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

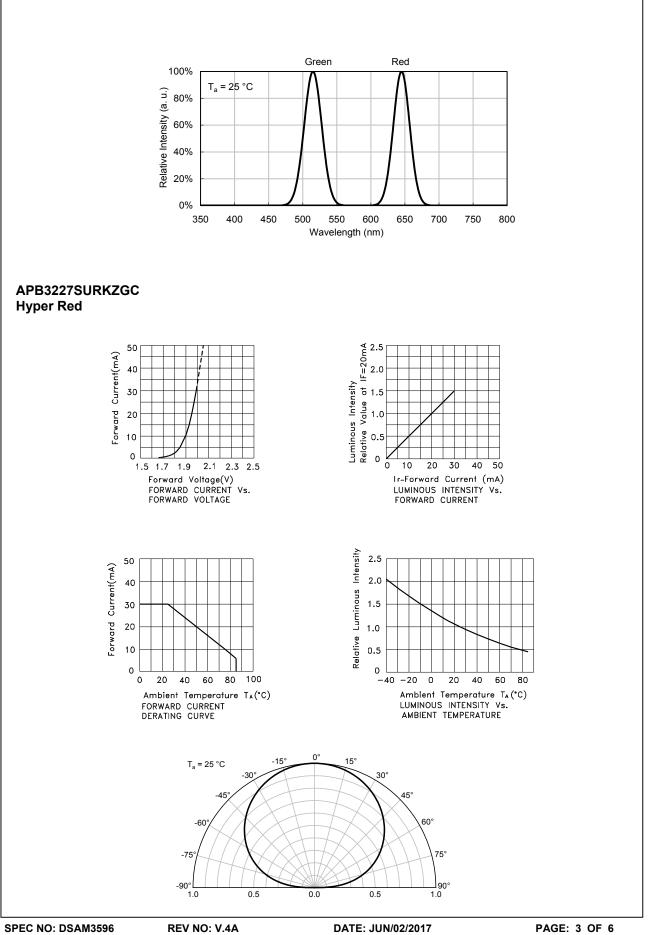
#### Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red	Green	Units		
Power dissipation	75	102.5	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	185	150	mA		
Electrostatic Discharge Threshold (HBM)	3000	450	V		
Reverse Voltage	5	V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Notes:

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

Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

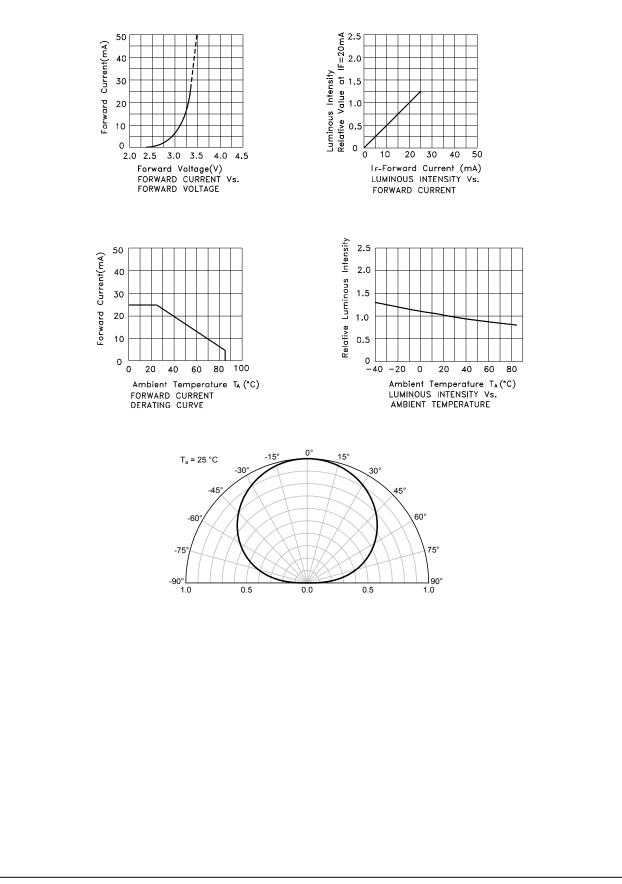


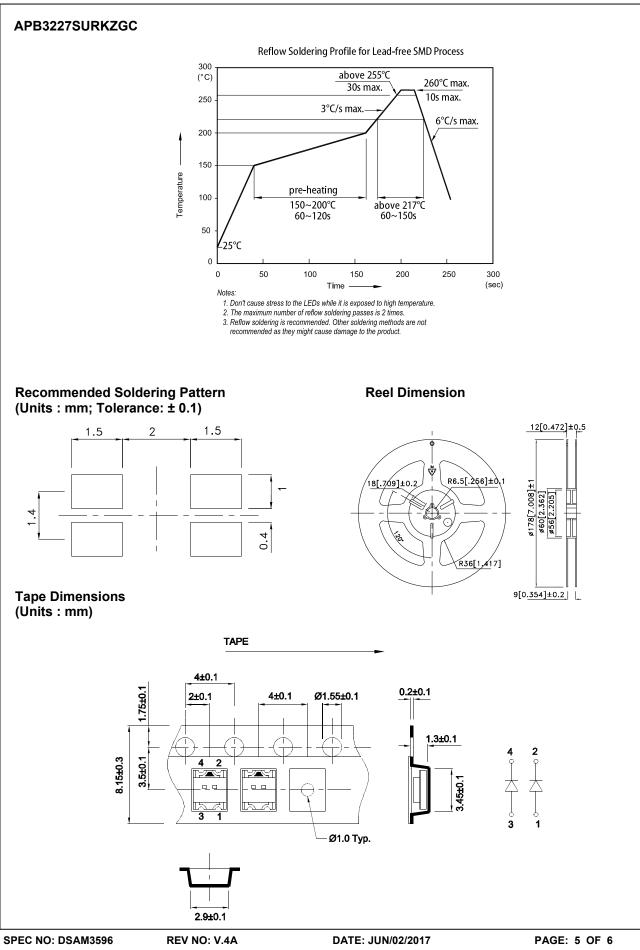
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Green



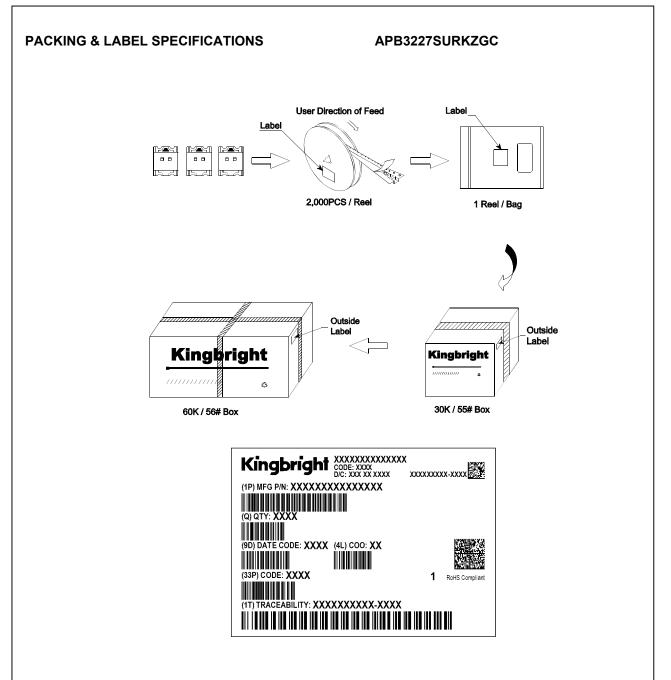


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