

Part Number: APBVA3010YSGC

Yellow  
Super Bright Green

### Features

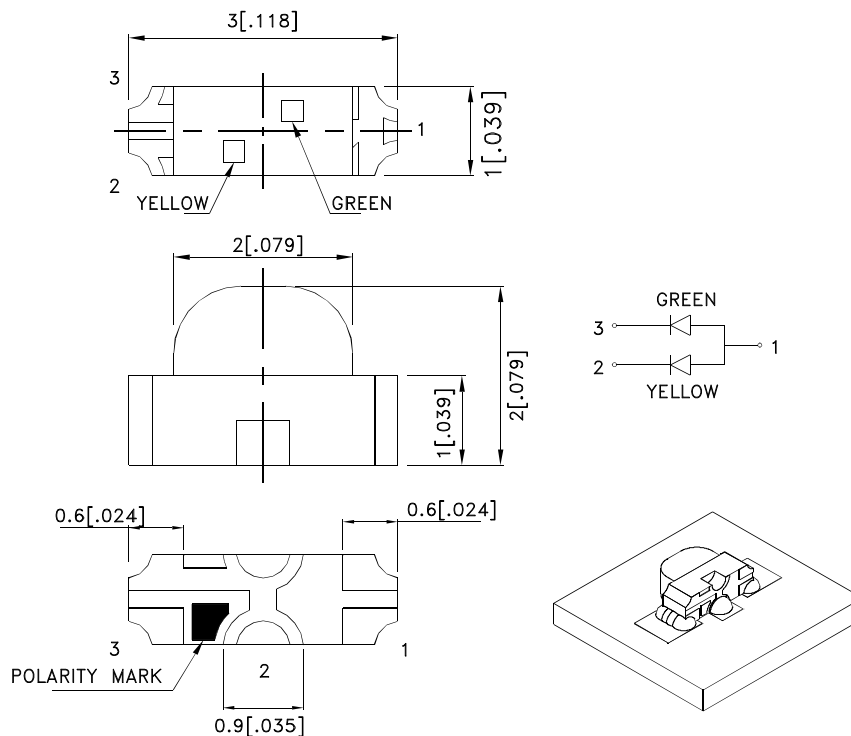
- 3.0mmx1.0mm right angle SMT LED, 2.0mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

### Description

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

### Package Dimensions



#### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.15(0.006)$  unless otherwise noted.
3. Specifications are subject to change without notice.
4. The device has a single mounting surface. The device must be mounted according to the specifications.



## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
APBVA3010YSGC	Yellow (GaAsP/GaP)	WATER CLEAR	2.6	6	140°
	Super Bright Green (GaP)		7	15	

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. Luminous intensity/ luminous Flux: +/-15%.

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

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Yellow Super Bright Green	590 565		nm	If=20mA
λD [1]	Dominant Wavelength	Yellow Super Bright Green	588 568		nm	If=20mA
Δλ1/2	Spectral Line Half-width	Yellow Super Bright Green	35 30		nm	If=20mA
C	Capacitance	Yellow Super Bright Green	20 15		pF	Vf=0V;f=1MHz
Vf [2]	Forward Voltage	Yellow Super Bright Green	2.1 2.2	2.5 2.5	V	If=20mA
IR	Reverse Current	Yellow Super Bright Green		10 10	uA	VR = 5V

Notes:

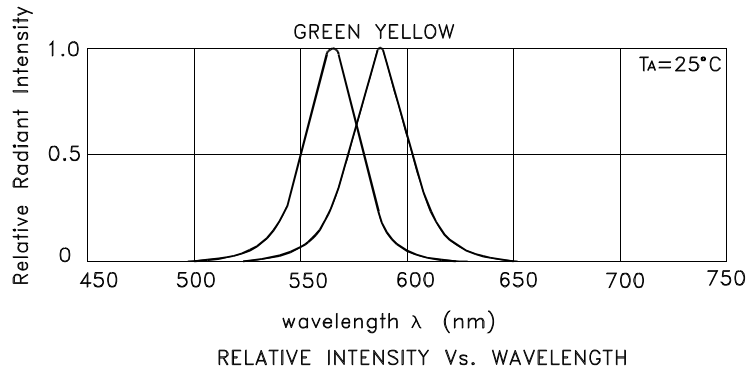
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

## Absolute Maximum Ratings at TA=25°C

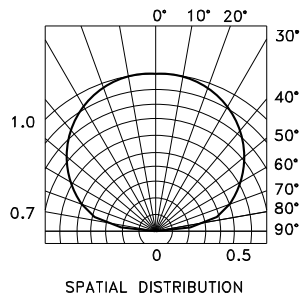
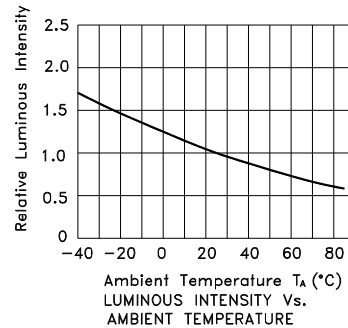
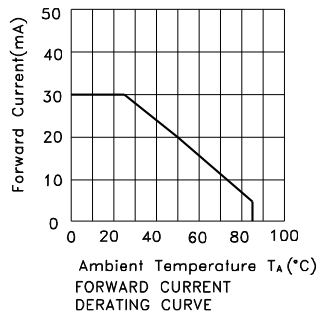
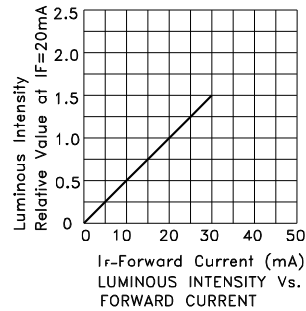
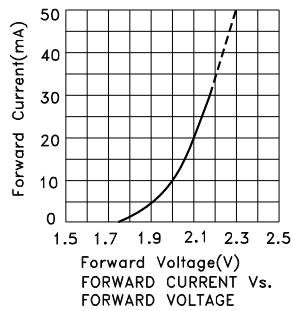
Parameter	Yellow	Super Bright Green	Units
Power dissipation	75	62.5	mW
DC Forward Current	30	25	mA
Peak Forward Current [1]	140	140	mA
Reverse Voltage	5		V
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

Note:

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

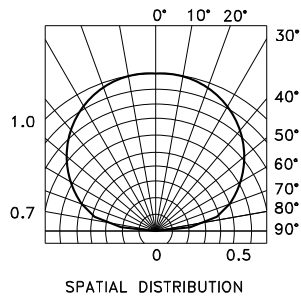
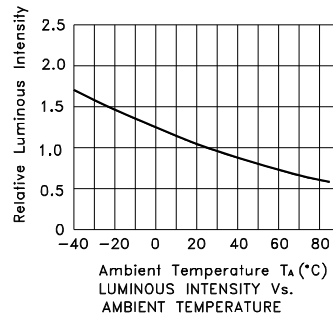
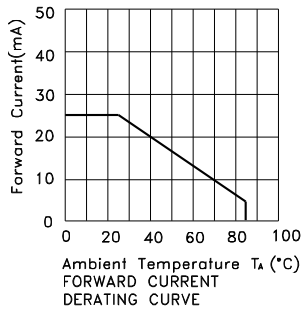
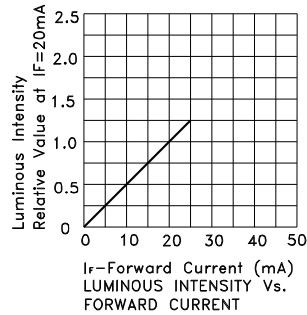
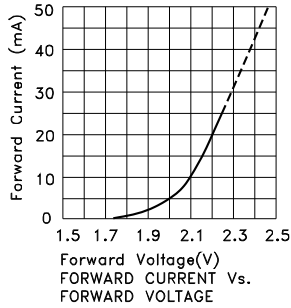


## APBVA3010YSGC Yellow



# Kingbright

## Super Bright Green

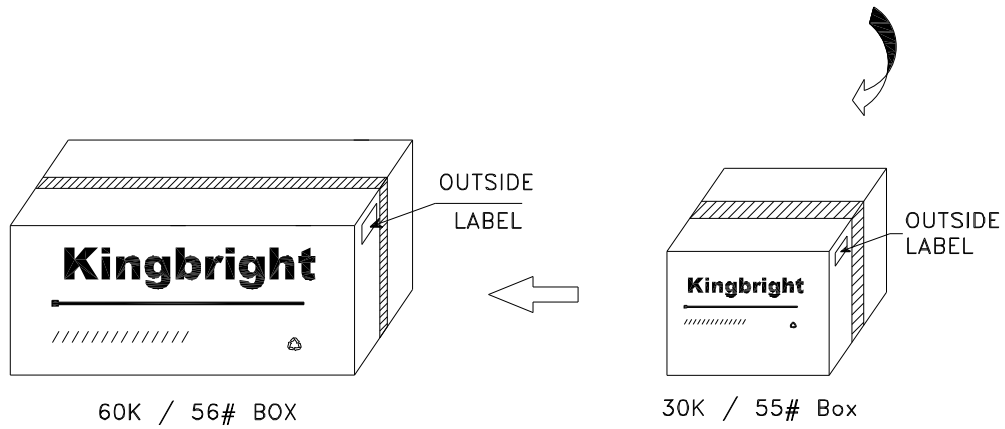
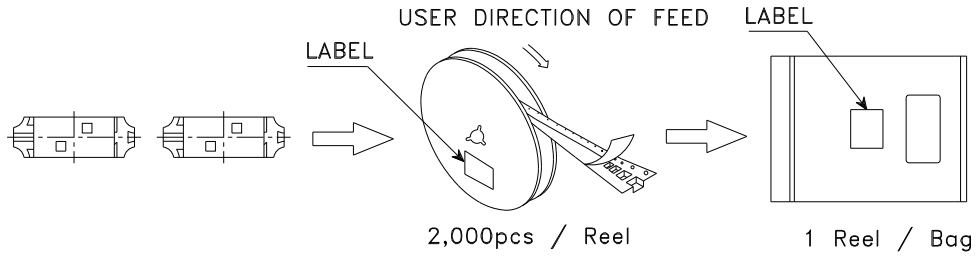





# Kingbright

## PACKING & LABEL SPECIFICATIONS

## APBVA3010YSGC



<b>Kingbright</b>	
P/NO: APBVA3010xxx	
QTY: 2,000 pcs	Q.C. <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Q C xx xx xxxx PASSED</span>
S/N: XXXX	
CODE: XXX	
LOT NO:	
 xxxxxxxxxxxxxxxxxxxxxxxx	
RoHS Compliant	