

Part Number: APHB1608CGKSYKC

Green
Super Bright Yellow

Features

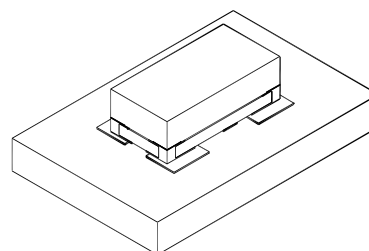
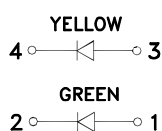
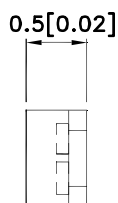
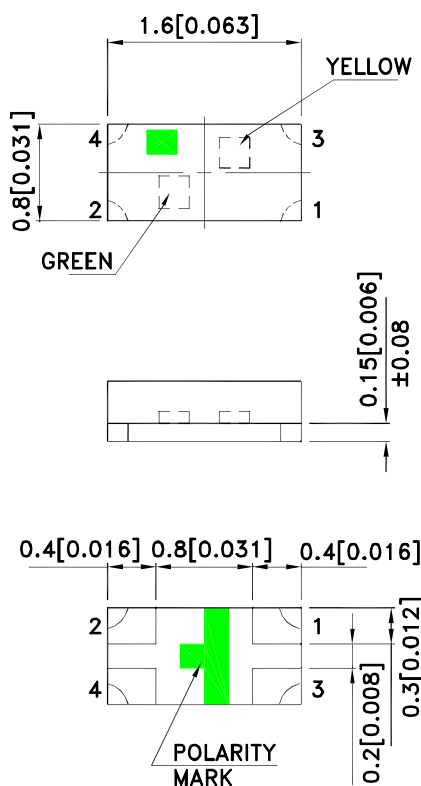
- 1.6mmX0.8mm SMT LED, 0.5mm thickness.
- Compatible with reflow soldering.
- Available in various color combination.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

Description

The Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

The Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.15(0.006)$ unless otherwise noted.
3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior 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
APHB1608CGKSYKC	Green (AlGaInP)	Water Clear	12	40	130°
	Super Bright Yellow (AlGaInP)		80	150	

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%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green Super Bright Yellow	574 590		nm	IF=20mA
λD [1]	Dominant Wavelength	Green Super Bright Yellow	570 590		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Green Super Bright Yellow	20 20		nm	IF=20mA
C	Capacitance	Green Super Bright Yellow	15 20		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green Super Bright Yellow	2.1 2	2.5 2.5	V	IF=20mA
IR	Reverse Current	Green Super Bright Yellow		10 10	uA	VR = 5V

Notes:

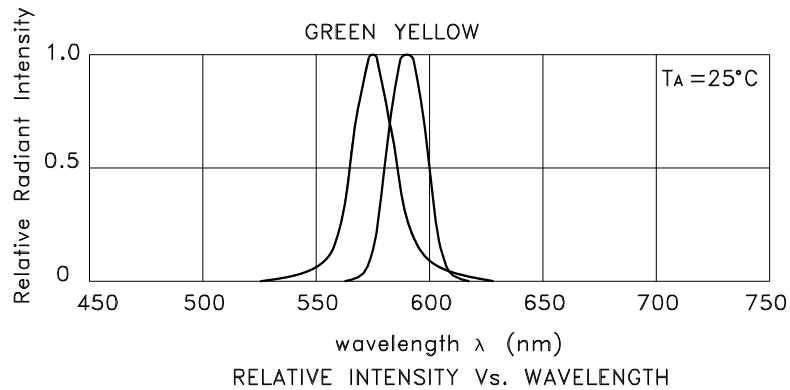
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

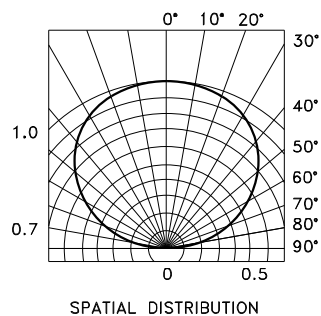
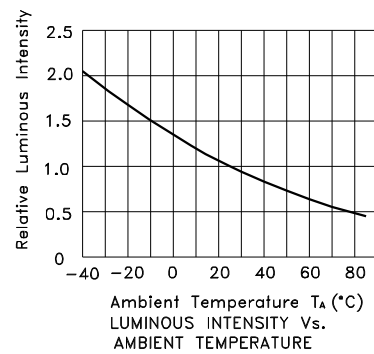
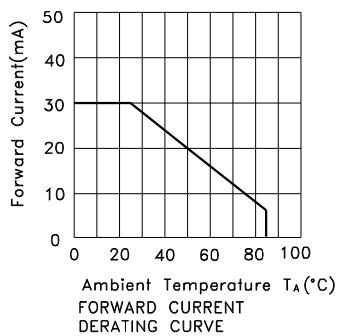
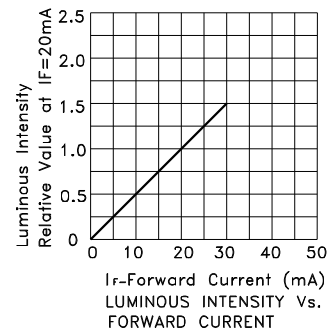
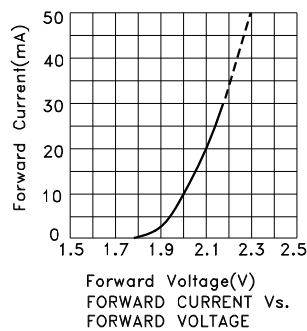
Parameter	Green	Super Bright Yellow	Units
Power dissipation	75	75	mW
DC Forward Current	30	30	mA
Peak Forward Current [1]	150	175	mA
Reverse Voltage	5		V
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

Note:

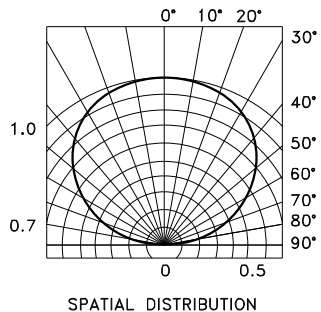
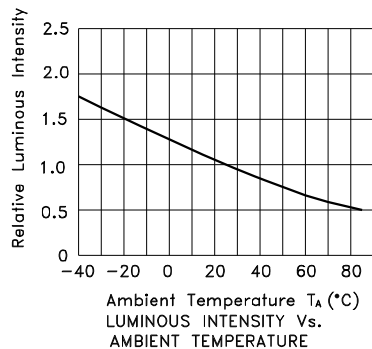
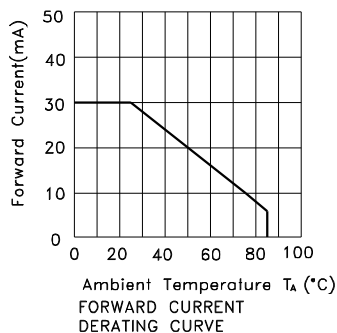
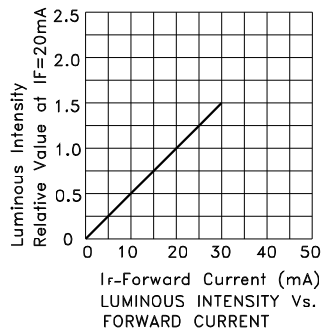
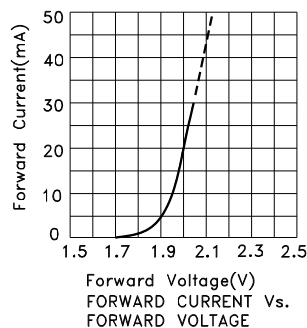
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



APHB1608CGKSYKC Green

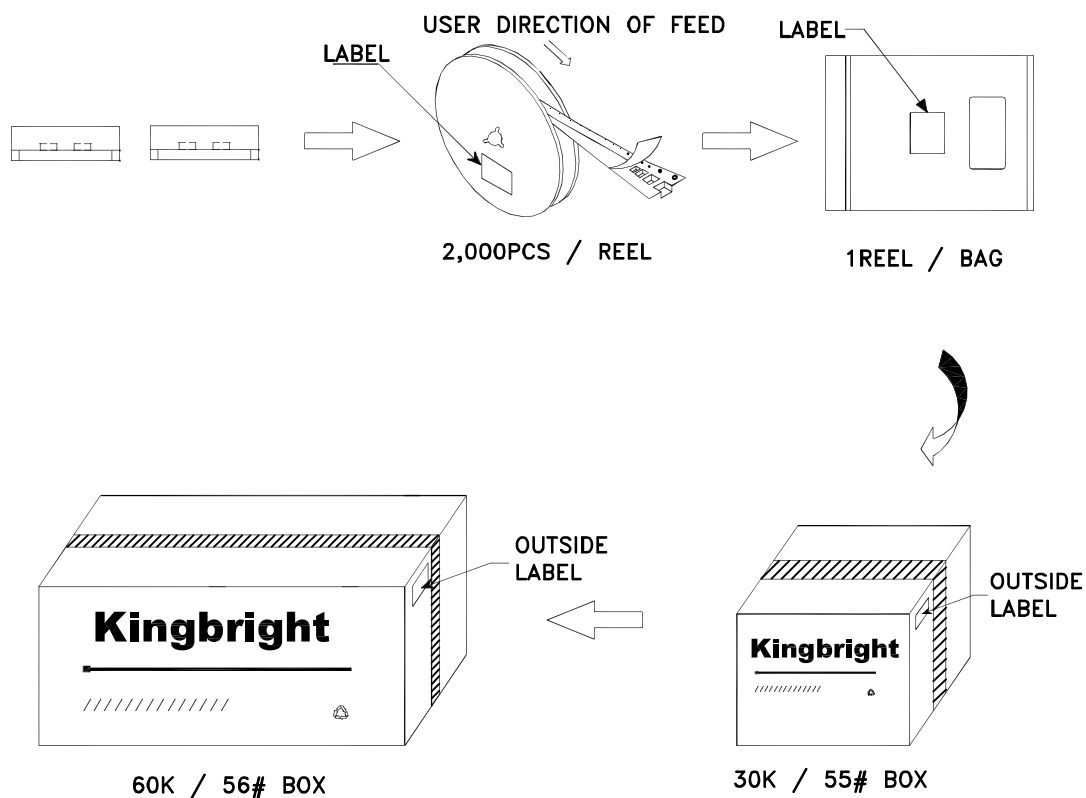



Super Bright Yellow



PACKING & LABEL SPECIFICATIONS

APHB1608CGKSYKC



Kingbright		
P/NO: APHB1608xxx		
QTY: 2,000 pcs	Q.C.	<div>Q C XX XX XXXX PASSED</div>
S/N: XXXX		
CODE: XXX		
LOT NO:		
		
xxxxxxxxxxxxxxxxxxxxxxxxxxxx		
RoHS Compliant		