

Part Number: APHBM2012CGKSEKC

Green
Super Bright Orange

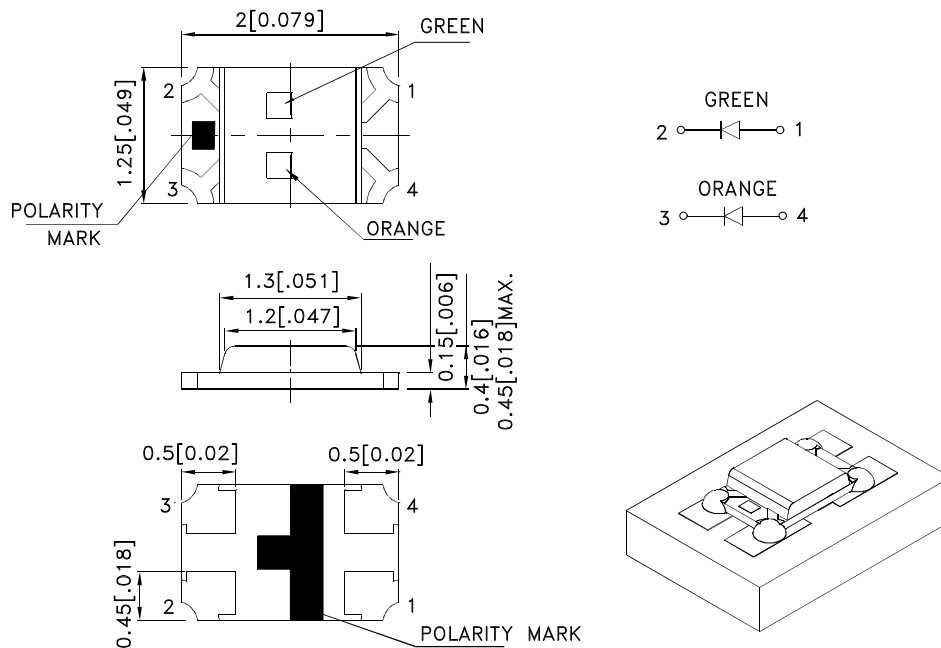
Features

- 2.0mmx1.25mm SMT LED, 0.45mm max. thickness.
- Bi-color, low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Descriptions

- The Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.
- The Super Bright Orange 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 ± 0.1 (0.004") 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
APHBM2012CGKSEKC	Green (AlGaInP)	Water Clear	20	50	120°
			*20	*50	
	Super Bright Orange (AlGaInP)		150	250	
			*80	*180	

Notes:

1. $\theta_{1/2}$ 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	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Green Super Bright Orange	574 610		nm	I _F =20mA
λ_D [1]	Dominant Wavelength	Green Super Bright Orange	570 601		nm	I _F =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Green Super Bright Orange	20 29		nm	I _F =20mA
C	Capacitance	Green Super Bright Orange	15 15		pF	V _F =0V; f=1MHz
V _F [2]	Forward Voltage	Green Super Bright Orange	2.1 2.1	2.5 2.5	V	I _F =20mA
I _R	Reverse Current	Green Super Bright Orange		10 10	uA	V _R = 5V

Notes:

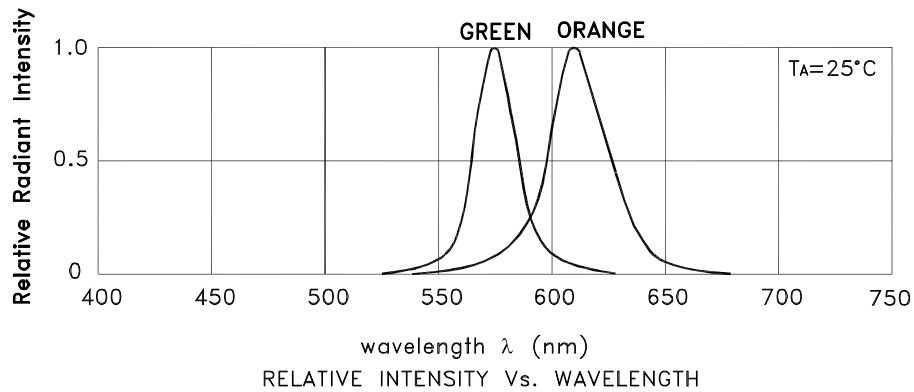
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

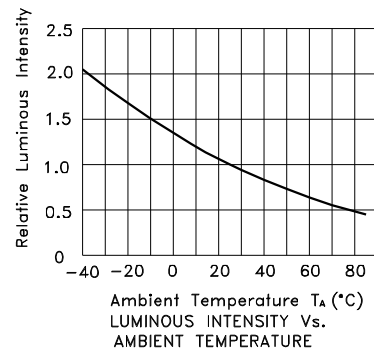
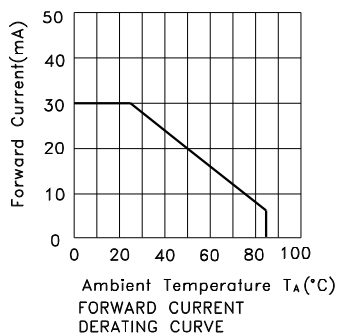
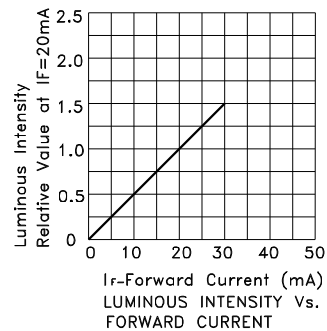
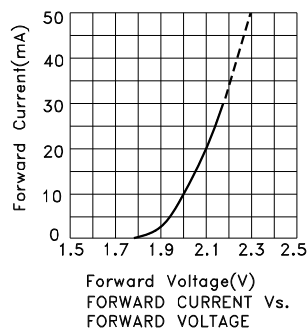
Parameter	Green	Super Bright Orange	Units
Power dissipation	75	75	mW
DC Forward Current	30	30	mA
Peak Forward Current [1]	150	195	mA
Reverse Voltage	5		V
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

Note:

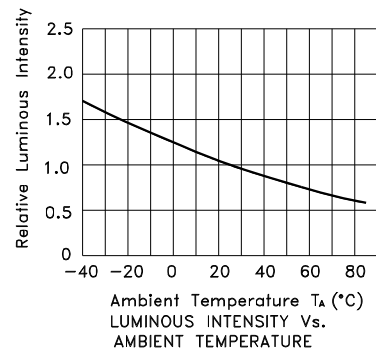
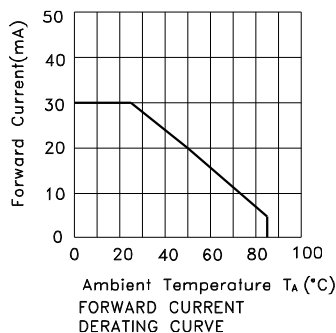
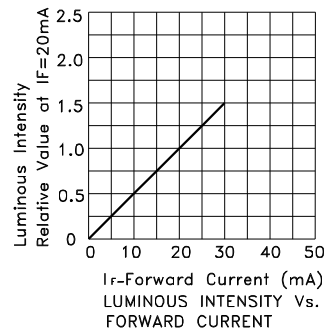
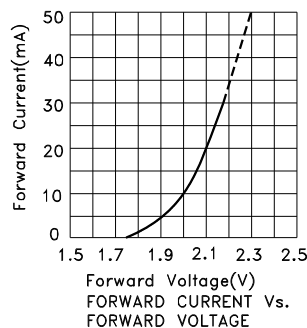
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



APHBM2012CGKSEKC Green

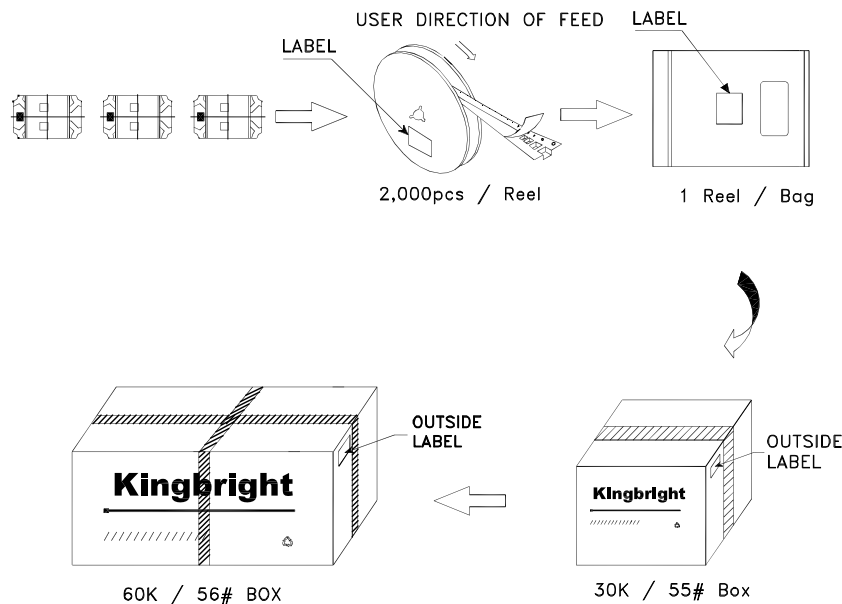



Super Bright Orange



PACKING & LABEL SPECIFICATIONS

APHBM2012CGKSEKC



Kingbright	
P/NO: APHBM2012xxx	
QTY: 2,000 pcs	Q.C. Q C XX-XX-XXXX PASSED
S/N: XXXX	
CODE: XXX	
LOT NO:	
	
RoHS Compliant	

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