

Part Number: KPHBM-2012CGKSEKC

Green
Super Bright Orange

Features

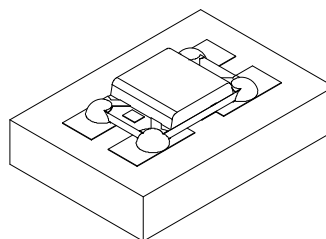
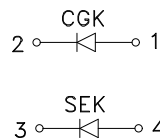
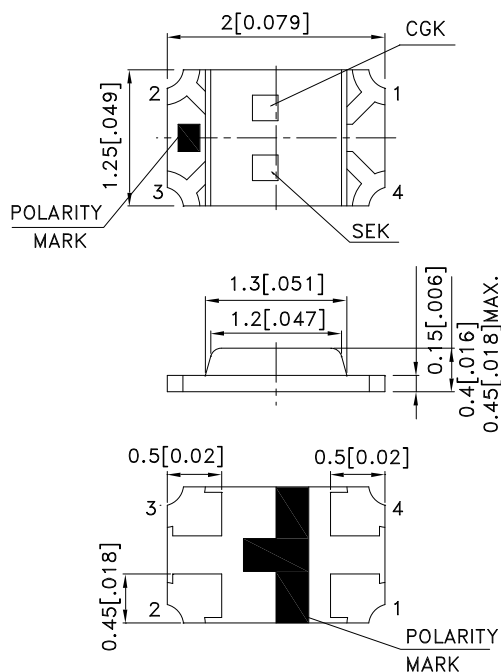
- 2.0mmx1.25mm SMT LED, 0.45mm max. thickness.
- Bi-color, low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

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
KPHBM-2012CGKSEKC	Green (AlGaInP)	WATER CLEAR	18	50	120°
	Super Bright Orange (AlGaInP)		110	250	

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
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:

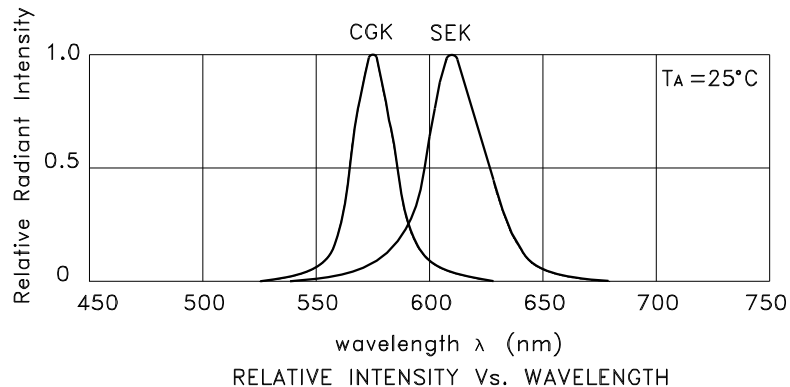
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

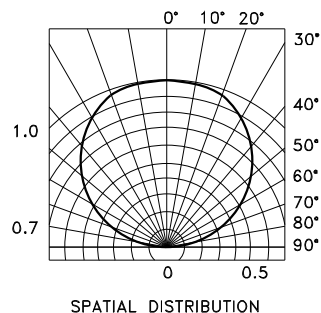
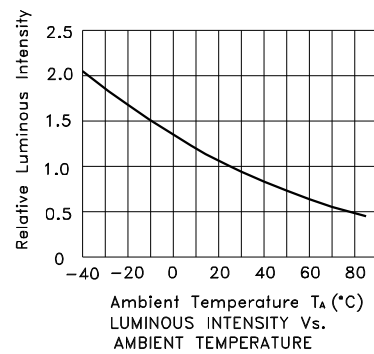
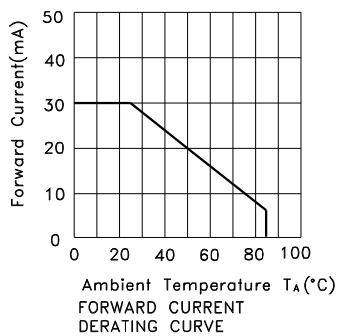
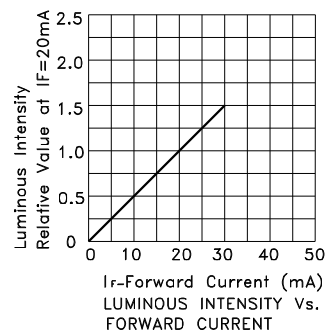
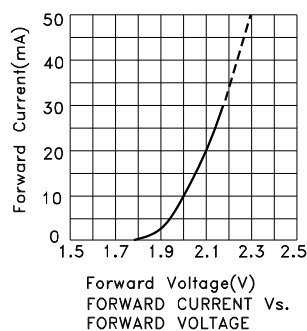
Parameter	Green	Super Bright Orange	Units
Power dissipation	75	75	mW
DC Forward Current	30	30	mA
Peak Forward Current [1]	150	195	mA
Reverse Voltage	5		V
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

Note:

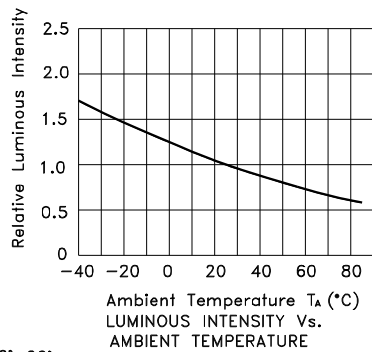
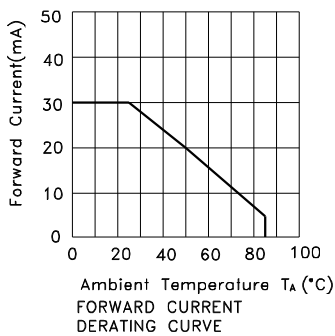
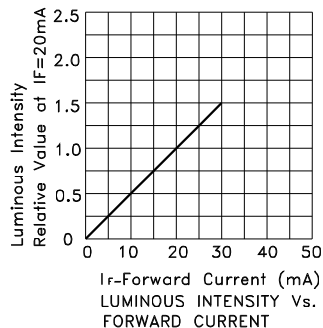
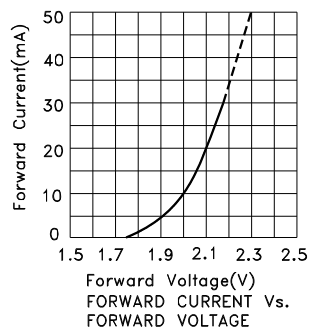
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



KPHBM-2012CGKSEKC Green

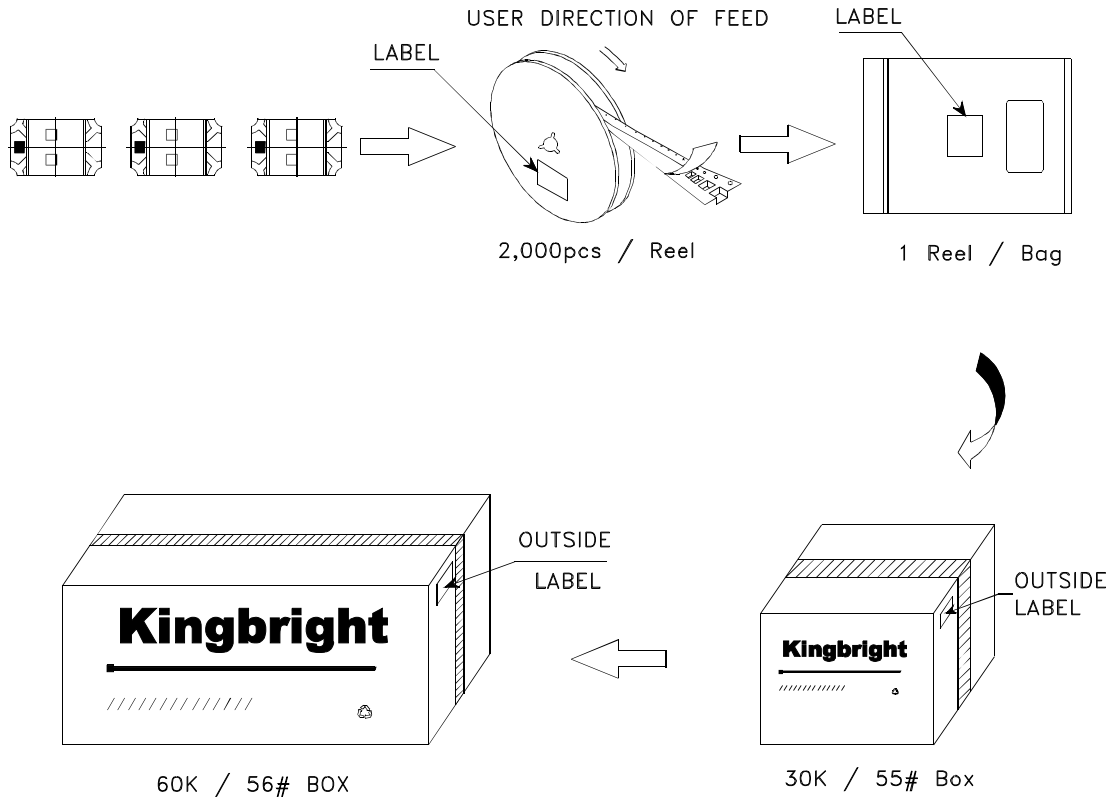



Super Bright Orange



PACKING & LABEL SPECIFICATIONS

KPHBM-2012CGKSEKC



Kingbright		
P/NO: KPHBM-2012xxx		
QTY: 2,000 pcs	Q.C.	<div>Q C XX XX XXXX PASSED</div>
S/N: XXXX		
CODE: XXX		
LOT NO:		
 XXXXXXXXXXXXXXXXXXXX		
RoHS Compliant		