5.0mm x 6.0mm FULL COLOR LED LAMP



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES KAF-5060PBESEEVGC

BLUE / HYPER ORANGE / GREEN

Features

- •OUTSTANDING MATERIAL EFFICIENCY.
- •RELIABLE AND RUGGED.
- •WATER CLEAR LENS.
- •LOW POWER CONSUMPTION.
- •ONE BLUE, ONE ORANGE AND ONE GREEN CHIPS IN ONE PACKAGE.
- •CAN PRODUCE ANY COLOR IN VISIBLE SPECTRUM, INCLUDING WHITE LIGHT.
- •RoHS COMPLIANT.

Description

The Blue source color devices are made with InGaN on SiC Light Emitting Diode.

The Hyper Orange source color devices are made with DH InGaAIP on GaAs substrate Light Emitting Diode. The Green source color devices are made with InGaN on SiC Light Emitting Diode.

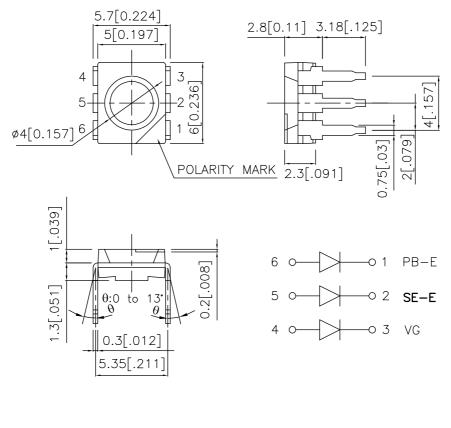
Static electricity and surge damage the LEDS.

It is recommended to use a wrist band or

anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Package Dimensions



Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25(0.01") unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.

4. Specifications are subject to change without notice.

SPEC NO: DSAB5759 APPROVED: J. Lu REV NO: V.10 CHECKED: Allen Liu DATE: MAR/13/2005 DRAWN: B.H.LI

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 30mA *50mA		Viewing Angle		
			Min.	Тур.	201/2		
KAF-5060PBESEEVGC	BLUE (InGaN)	WATER CLEAR	110	250	100°		
	HYPER ORANGE(InGaAIP)		*650	*1000			
	GREEN (InGaN)		180	350			

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
* Luminous intensity with asterisk is measured at 50mA.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue Hyper Orange Green	465 630 520		nm	IF=20mA
λD	Dominant Wavelength	Blue Hyper Orange Green	470 621 525		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Blue Hyper Orange Green	25 20 38		nm	IF=20mA
С	Capacitance	Blue Hyper Orange Green	110 25 45		pF	VF=0V;f=1MHz
VF	Forward Voltage	Blue Hyper Orange Green	3.7 2.0 3.5	4.3 2.5 4.5	V	IF=20mA
IR	Reverse Current	All		10	uA	VR = 5V

Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Hyper Orange	Green	Units		
Power dissipation [2]		mW				
DC Forward Current	30	50	30	mA		
Peak Forward Current [1]	160	195	150	mA		
Reverse Voltage	5	5	5	V		
Operating / Storage Temperature	-40°C To +85°C					
Lead Solder Temperature [3]	260°C For 3 Seconds					
Lead Solder Temperature [4]	260°C For 5 Seconds					

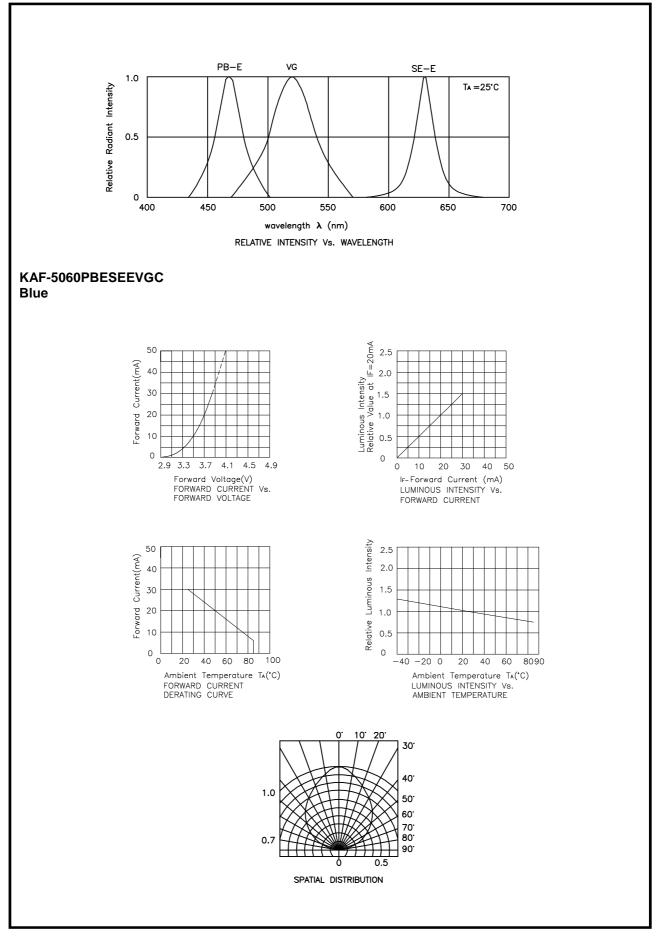
Notes:

1. Within 350mW at all chips are lightened.

2. 1/10 Duty Cycle, 0.1ms Pulse Width.

3. 2mm below package base.

3. 5mm below package base.



REV NO: V.10 CHECKED: Allen Liu DATE: MAR/13/2005 DRAWN: B.H.LI

Hyper Orange

