PRELIMINARY SPEC



ATTENTION **OBSERVE PRECAUTIONS** FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- OUTSTANDING MATERIAL EFFICIENCY.
- RELIABLE AND RUGGED.
- WATER CLEAR LENS.
- LOW POWER CONSUMPTION.
- ONE BLUE, ONE RED AND ONE GREEN CHIPS IN ONE PACKAGE.
- CAN PRODUCE ANY COLOR IN VISIBLE SPETRUM, INCLUDING WHITE LIGHT.
- MOISTURE SENSITIVITY LEVEL : LEVEL 4.
- RoHS COMPLIANT.

5.0mm x 6.0mm FULL COLOR LED LAMP

Part Number: KAF-5060PBGSURKVGAC

Blue Hyper Red Green

Description

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

The Hyper Red source color devices are made with In-

GaAIP on GaAs substrate Light Emitting Diode.

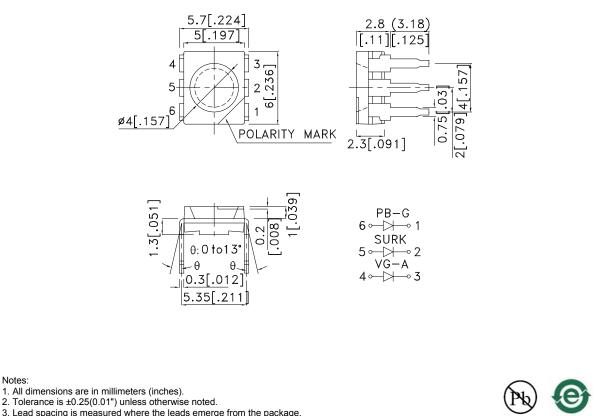
The Green source color devices are made with InGaN on G-SiC Light Emitting Diode.

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.

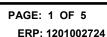
Package Dimensions



Lead spacing is measured where the leads emerge from the package.
 Specifications are subject to change without notice.

Notes:

DATE: AUG/24/2007 DRAWN: W.J.Hua



Selection Guide Part No.	Dice	Lens Type	lv (mcd) [2] @ 30mA		Viewing Angle [1]
			Min.	Тур.	201/2
KAF-5060PBGSURKVGAC	Blue (InGaN)		180	300	100°
	Hyper Red (InGaAIP)	WATER CLEAR	180	350	
	Green (InGaN)		180	350	

Notes:

1. θ 1/2 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	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue Hyper Red Green	468 650 520		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Blue Hyper Red Green	470 635 525		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Blue Hyper Red Green	21 28 35		nm	I⊧=20mA
с	Capacitance	Blue Hyper Red Green	100 35 100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue Hyper Red Green	3.2 1.95 3.2	4 2.5 4	V	I⊧=20mA
lr	Reverse Current	Blue Hyper Red Green		10 10 10	uA	VR=5V

Notes:

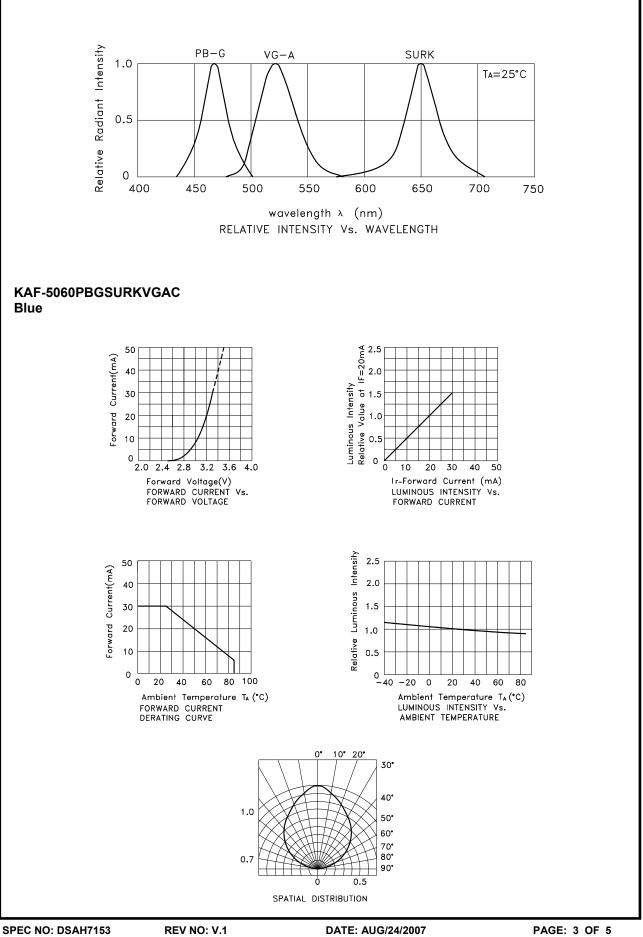
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Hyper Red	Green	Units			
Power dissipation[2]	350						
DC Forward Current	30	30	30	mA			
Peak Forward Current [1]	100	185	100	mA			
Reverse Voltage		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. 1/10 Duty Cycle, 0.1ms Pulse Width.
 Within 350mW at all chips are lightened.
 2mm below package base.
 5mm below package base.



Hyper Red

