

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

KAAF-5060PBESURVGC

BLUE HYPER RED GREEN

Features

- •CHIPS CAN BE CONTROLLED SEPARATELY.
- •SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.
- •AVAILABLE ON TAPE AND REEL.
- •PACKAGE: 500PCS / REEL.
- •RoHS COMPLIANT.

Description

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

The Hyper Red 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.

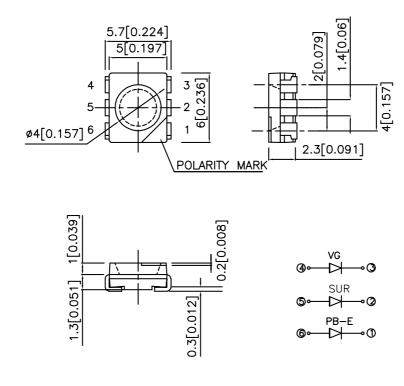
Static electricity and surge damage the LEDS.

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.





Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.

3. Specifications are subject to change without notice.

REV NO: V.6 CHECKED: Allen Liu DATE: MAR/13/2005 DRAWN: B.H.LI

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @30mA* 50 mA		Viewing Angle
			Min.	Тур.	2 0 1/2
KAAF-5060PBESURVGC	BLUE (InGaN)	WATER CLEAR	110	250	100°
	HYPER RED (InGaAIP)		*380	*500	
	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

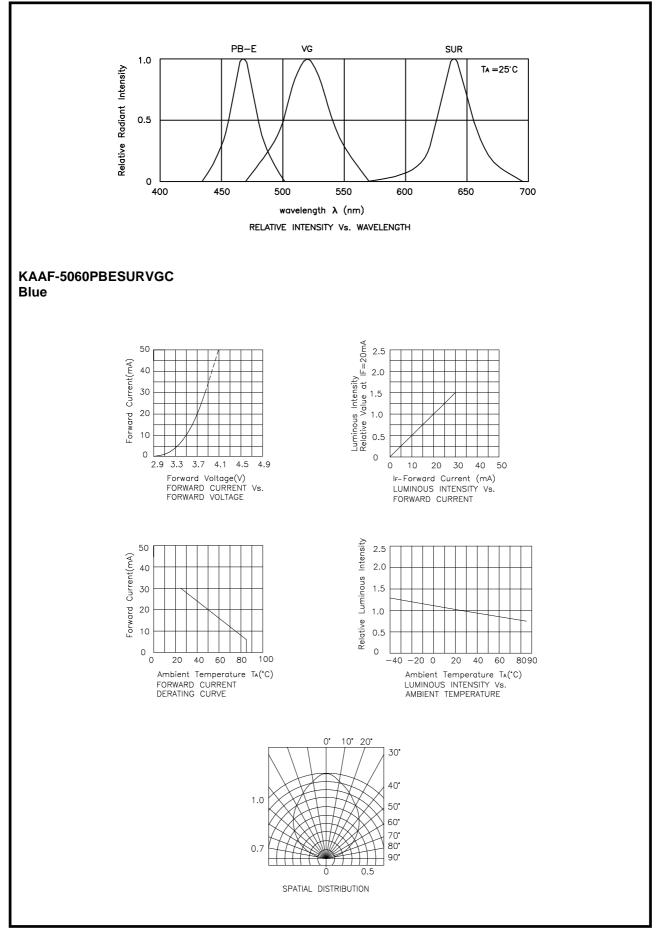
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue Hyper Red Green	465 640 520		nm	I _F =20mA
λD	Dominant Wavelength	Blue Hyper Red Green	470 628 525		nm	I _F =20mA
Δλ1/2	Spectral Line Half-width	Blue Hyper Red Green	25 27 38		nm	I _F =20mA
С	Capacitance	Blue Hyper Red Green	110 45 45		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	Blue Hyper Red Green	3.7 1.9 3.5	4.3 2.5 4.5	V	I _F =20mA
I _R	Reverse Current	All		10	uA	$V_R = 5V$

Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Hyper Red	Green	Units	
Total Power dissipation [1]		mW			
DC Forward Current	30	50	30	mA	
Peak Forward Current [2]	160	185	150	mA	
Reverse Voltage	5	5	5	V	
Operating / Storage Temperature	-40°C To +85°C				

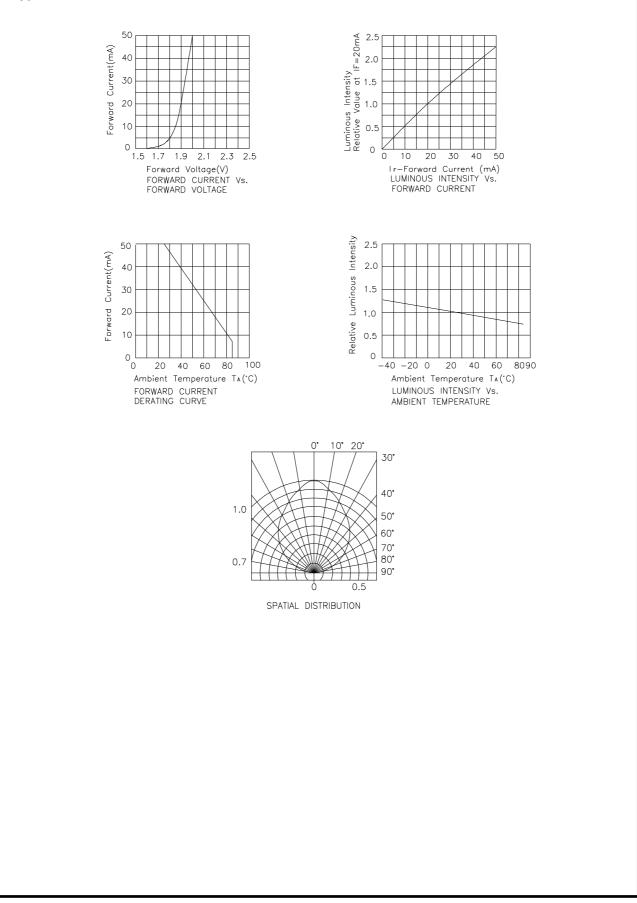
Notes:

Within 350mW at all chips are lightened.
1/10 Duty Cycle, 0.1ms Pulse Width.

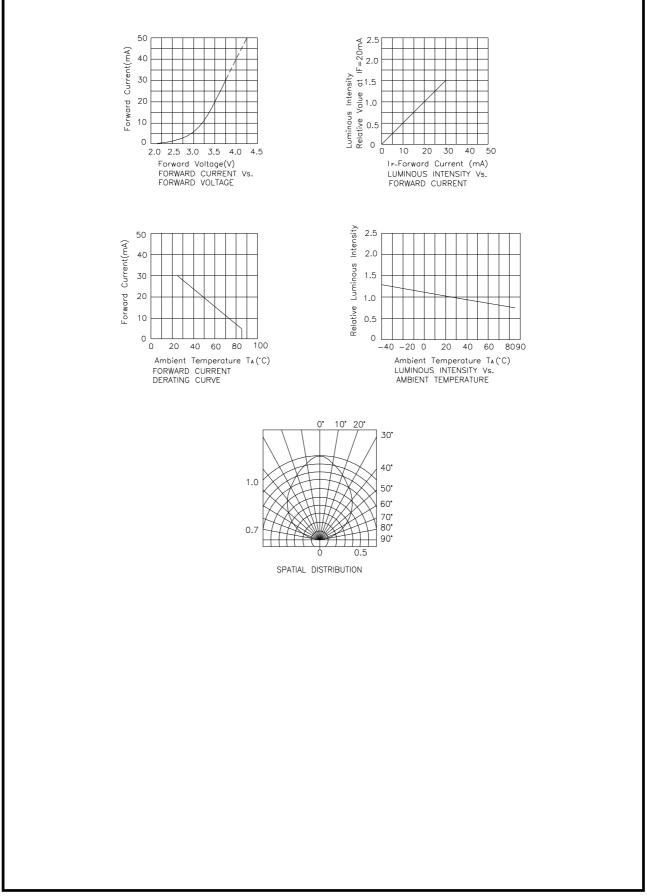


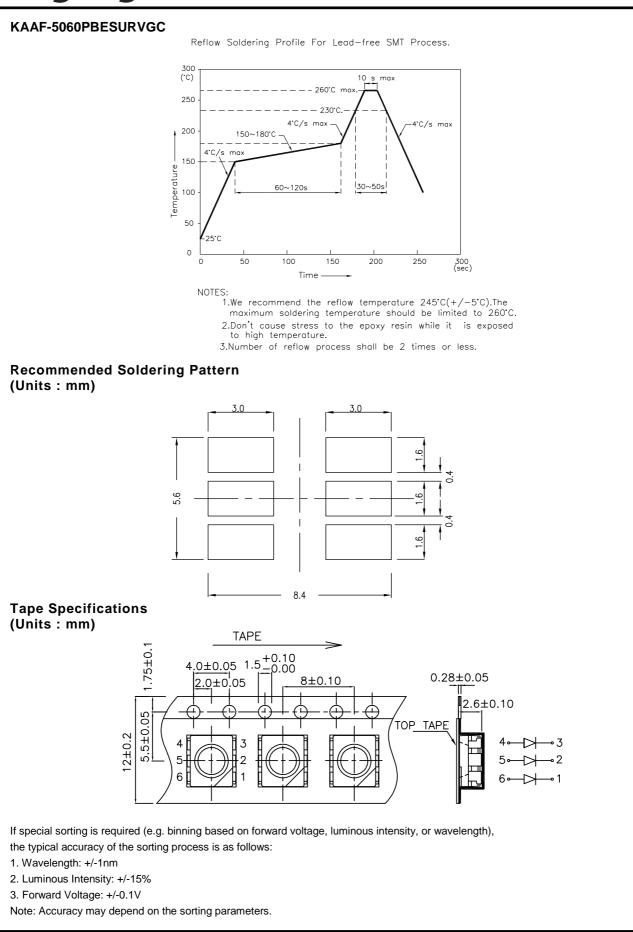
SPEC NO: DSAC1727 APPROVED: J. Lu REV NO: V.6 CHECKED: Allen Liu DATE: MAR/13/2005 DRAWN: B.H.LI

Hyper Red



Green





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