5.0mm x 6.0mm FULL COLOR LED LAMP



ATTENTION OBSERVE PRECAUTIONS

SERVE PRECAUTION
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

AAF5060PBESEEVG

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.

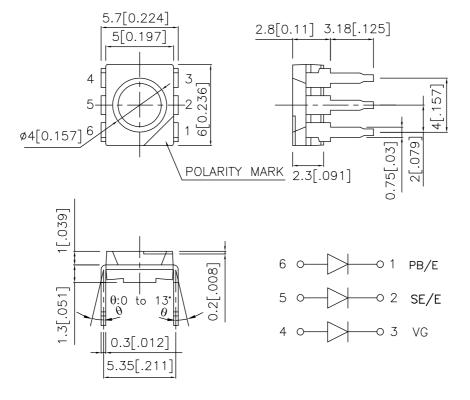
Static electricity and surge damage the LEDS.

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:

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

4. Specifications are subject to change without notice.

www.DataSheet4U.com

www.AParashVEPairlobill

SPEC NO: DSAB7357

REV NO: V.6 CHECKED: Allen Liu DATE:MAR/14/2005 DRAWN:B.H.LI www.bataoned.40.com

PAGE: 1 OF 5

ERP: 1201000914

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 30mA *50mA		Viewing Angle
			Min.	Тур.	201/2
AAF5060PBESEEVG	BLUE (InGaN)		110	250	100°
	HYPER ORANGE(InGaAIP)	WATER CLEAR	*650	*1000	
	GREEN (InGaN)		180	350	

Notes:

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

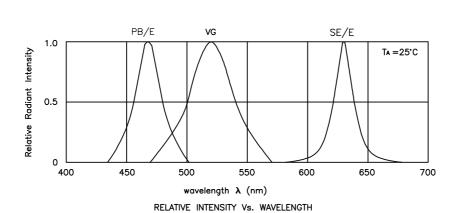
Absolute Maximum Ratings at TA=25°C

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					

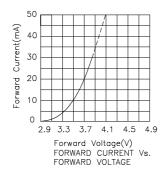
- 1. Within 350mW at all chips are lightened.
- 2. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 3. 2mm below package base.
- 4.5mm below package base.

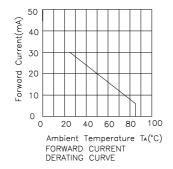
SPEC NO: DSAB7357 **REV NO: V.6** DATE:MAR/14/2005 PAGE: 2 OF 5 APPROVED: J. Lu CHECKED: Allen Liu DRAWN:B.H.LI ERP: 1201000914

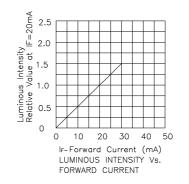
^{1.} θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. 2. * Luminous intensity with asterisk is measured at 50mA.

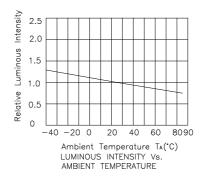


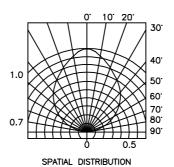
AAF5060PBESEEVG Blue





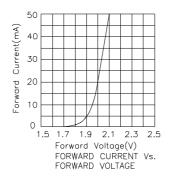


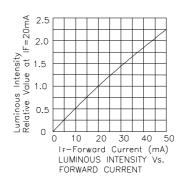


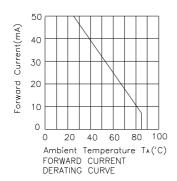


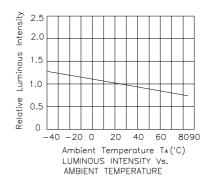
SPEC NO: DSAB7357 APPROVED: J. Lu REV NO: V.6 CHECKED: Allen Liu DATE:MAR/14/2005 DRAWN:B.H.LI PAGE: 3 OF 5 ERP: 1201000914

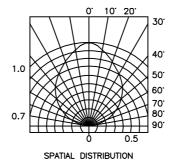
Hyper Orange



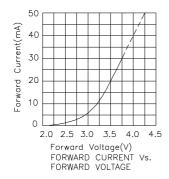


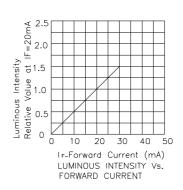


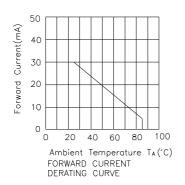


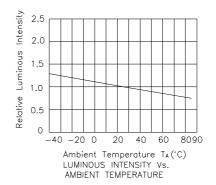


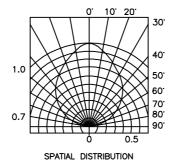
Green











If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

PAGE: 5 OF 5

ERP: 1201000914