5.0mm x 6.0mm FULL COLOR SURFACE MOUNT LED LAMP



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES AAA5060SEEVGPBE

HYPER ORANGE GREEN BLUE

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 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.

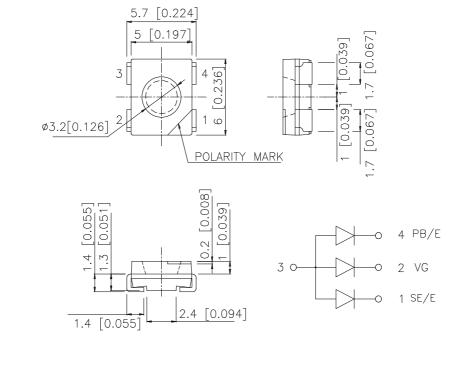
The Blue source color devices are made with InGaN on SiC Light Emitting Diode.

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.

SPEC NO: DSAD0907 APPROVED: J. Lu REV NO: V.3 CHECKED: Allen Liu DATE: MAR/24/2005 DRAWN: B.H.LI PAGE: 1 OF 6 ERP: 1201000781

Package Dimensions

Selection Guide							
Part No.	Dice	Lens Type	lv (mcd) @50mA* 30 mA		Viewing Angle		
			Min.	Тур.	2 0 1/2		
AAA5060SEEVGPBE	HYPER ORANGE(InGaAIP)	WATER CLEAR	650	1000	100°		
	GREEN (InGaN)		*180	*350			
	BLUE (InGaN)		*110	*250			

Notes:

1.01/2 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 30mA.

Electrical / Optical Characteristics at TA=25°C

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

Absolute Maximum Ratings at TA=25°C

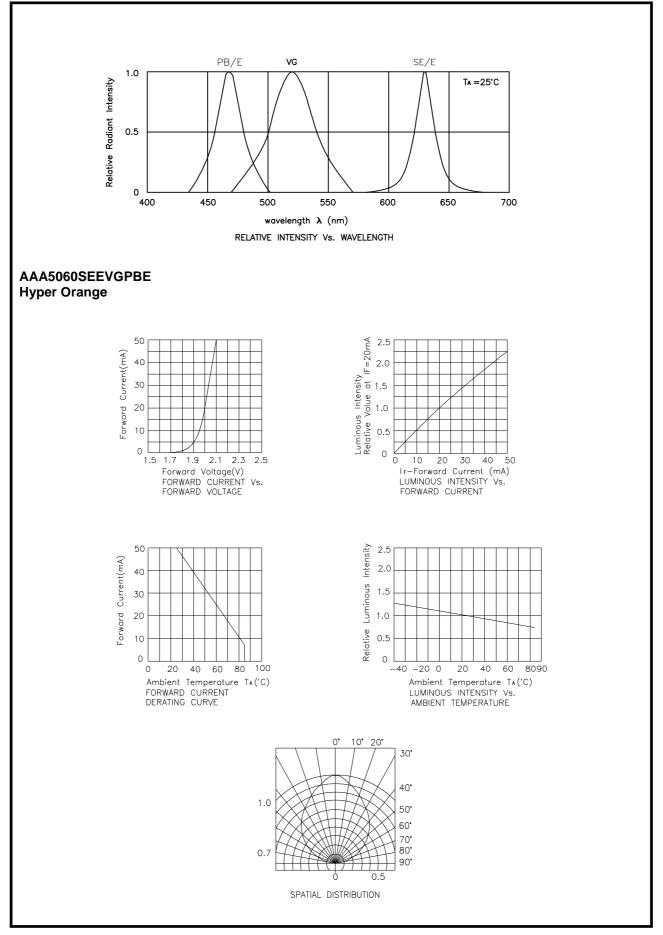
Parameter	Hyper Orange	Green	Blue	Units
Power dissipation [2]		mW		
DC Forward Current	50	30	30	mA
Peak Forward Current [1]	195	150	160	mA
Reverse Voltage	5	5	5	V
Operating / Storage Temperature	-40°C To +85°C			

Notes:

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

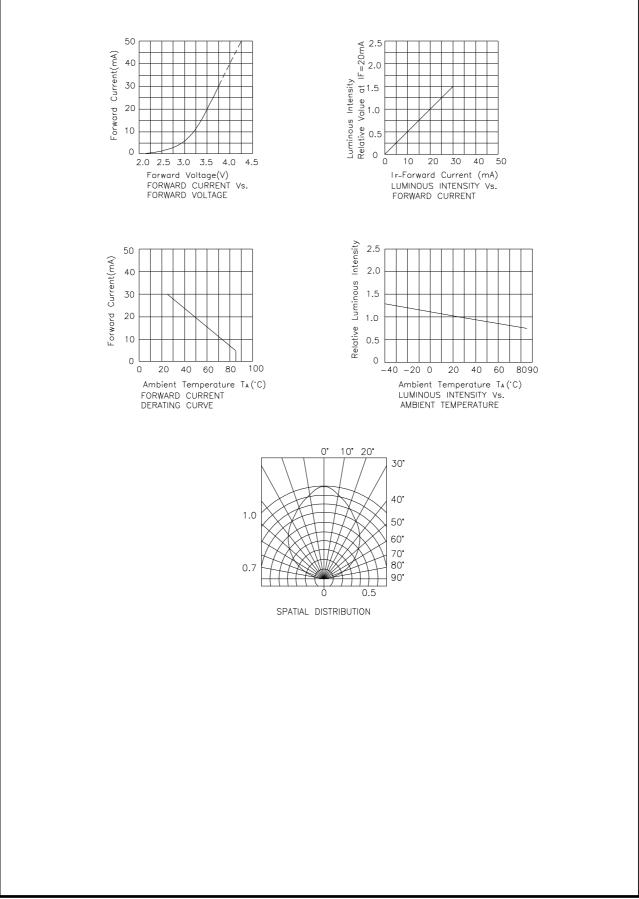
2. Within 350mW at all chips are lightened.

DATE: MAR/24/2005 DRAWN: B.H.LI

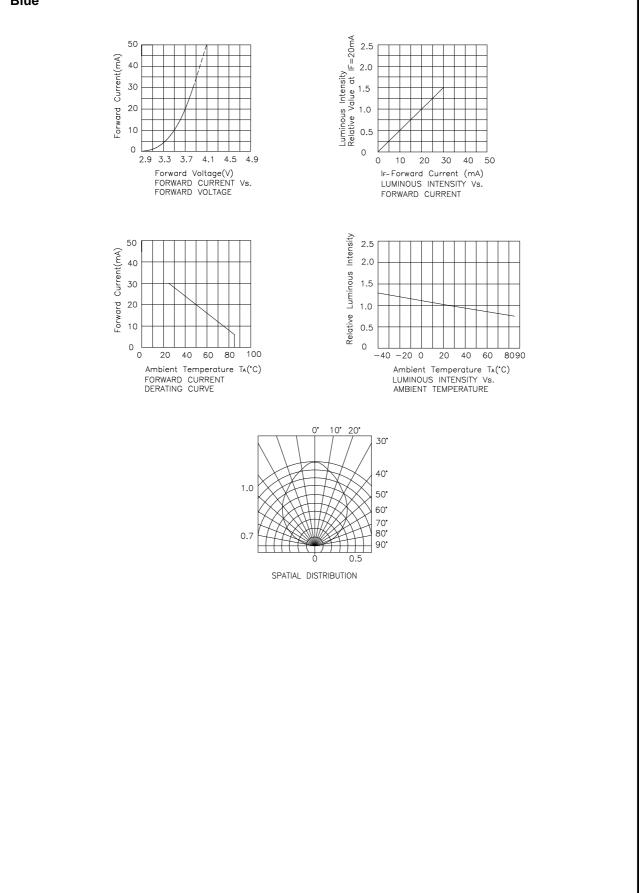


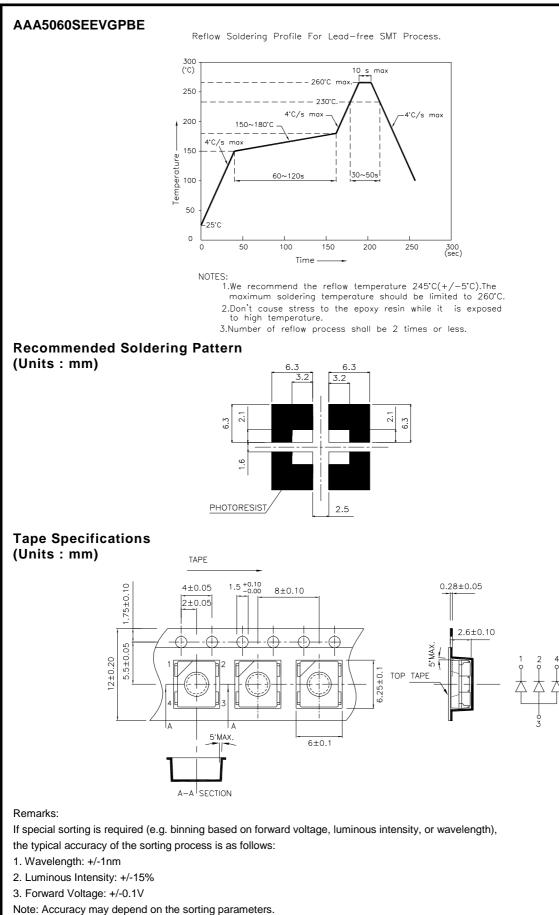
REV NO: V.3 CHECKED: Allen Liu DATE: MAR/24/2005 DRAWN: B.H.LI PAGE: 3 OF 6 ERP: 1201000781

Green









SPEC NO: DSAD0907 APPROVED: J. Lu REV NO: V.3 CHECKED: Allen Liu DATE: MAR/24/2005 DRAWN: B.H.LI PAGE: 6 OF 6 ERP: 1201000781