### imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



### Contact us

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### 5.0mm x 6.0mm SURFACE MOUNT LED LAMP

### PRELIMINARY SPEC



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

#### **Features**

- CHIPS CAN BE CONTROLLED SEPARATELY.
- SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.
- AVAILABLE ON TAPE AND REEL.
- PACKAGE: 500PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 4.
- RoHS COMPLIANT.

#### Part Number: AAAF5060PBESURVGEC

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.

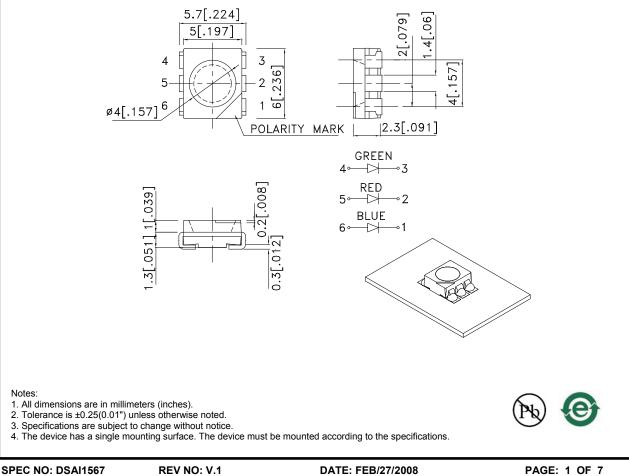
The Green source color devices are made with InGaN on SiC Light Emitting Diode.

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.





**APPROVED: WYNEC** 

Notes:

**CHECKED: Allen Liu** 

DRAWN: Y.F.Lu

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Selection Guide								
Part No.	Dice	Lens Type	lv (mcd) [2] @ 30mA *50mA		Viewing Angle [1]			
			Min.	Тур.	201/2			
	Blue (InGaN)		110	250	100°			
AAAF5060PBESURVGEC	Hyper Red (InGaAIP)	WATER CLEAR	*380	*500				
	Green (InGaN)		280	600				

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; Luminous intensity/ luminous Flux: +/-15%.

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue Hyper Red Green	468 640 520		nm	IF=20mA
λD [1]	Dominant Wavelength	Blue Hyper Red Green	470 628 525		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Blue Hyper Red Green	21 27 35		nm	IF=20mA
С	Capacitance	Blue Hyper Red Green	100 45 100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue Hyper Red Green	3.2 1.9 3.2	4 2.5 4	V	IF=20mA
lr	Reverse Current	Blue Hyper Red Green		10 10 10	uA	VR=5V

#### Electrical / Optical Characteristics at TA=25°C

Notes:

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

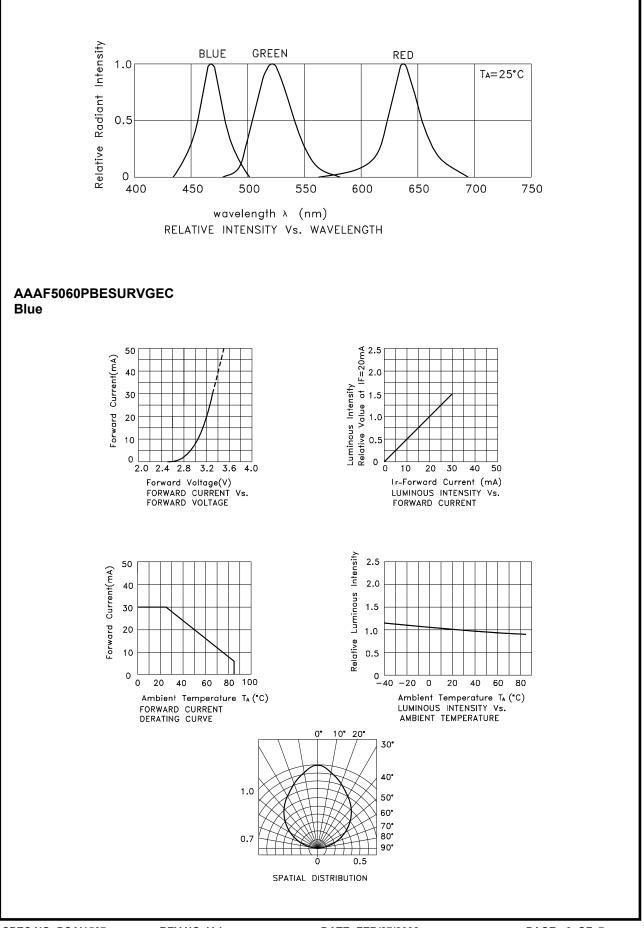
#### Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Hyper Red	Green	Units		
Power dissipation[2]		mW				
DC Forward Current	30	50	30	mA		
Peak Forward Current [1]	100	185	100	mA		
Reverse Voltage		V				
Operating Temperature	-40°C To +85°C					
Storage Temperature	-40°C To +85°C					

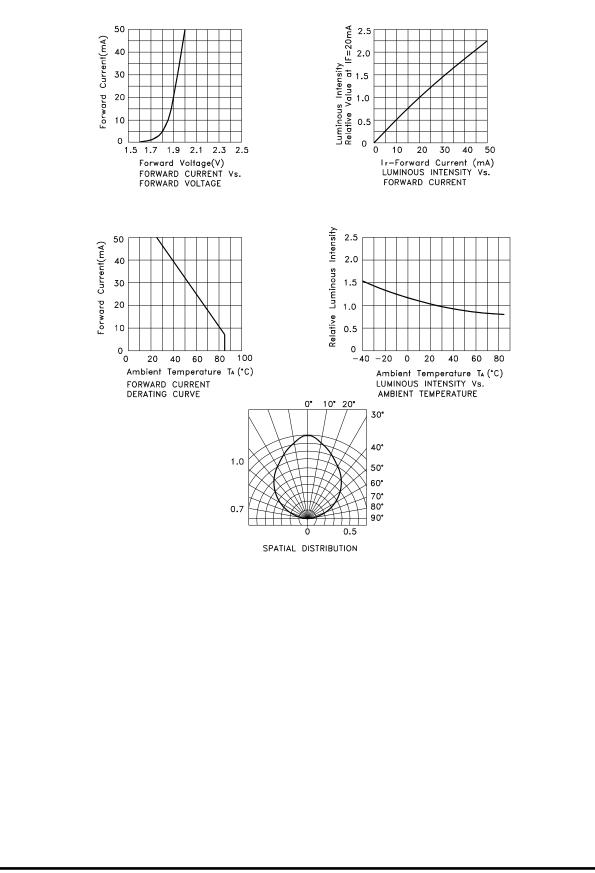
Notes:

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

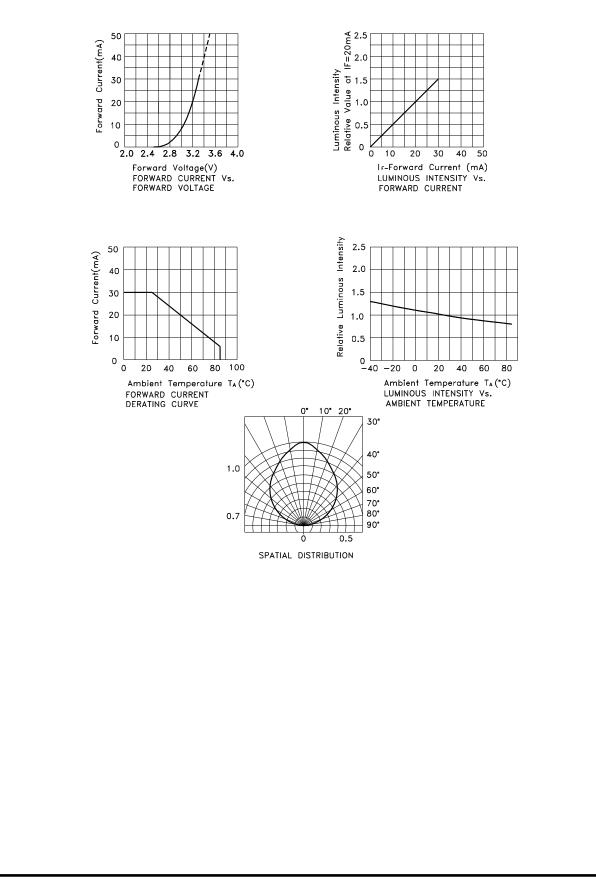
SPEC NO: DSAI1567 APPROVED: WYNEC

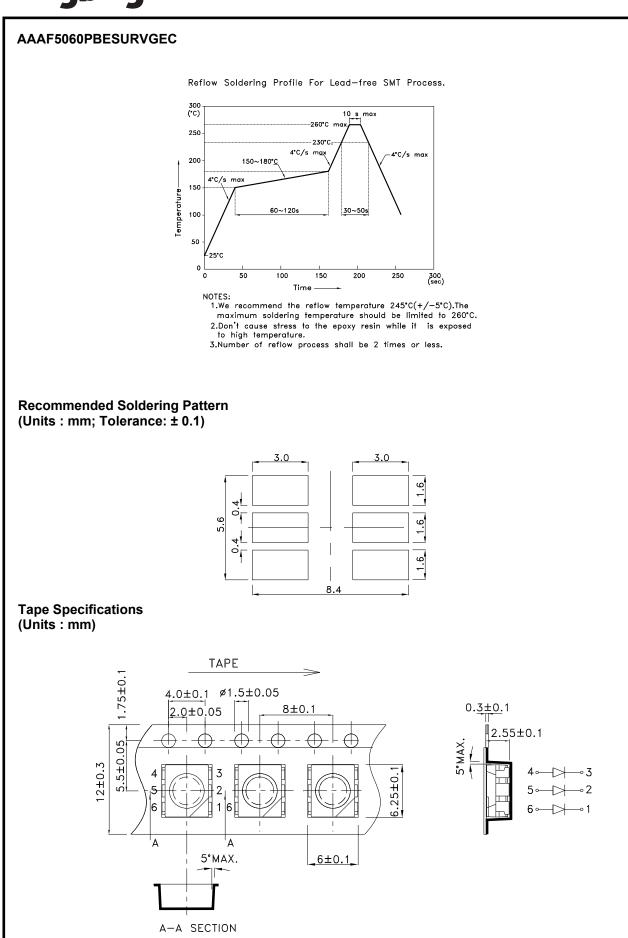


### Hyper Red









REV NO: V.1 CHECKED: Allen Liu DATE: FEB/27/2008 DRAWN: Y.F.Lu

