### 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: AAAF5060PBESEEVGEC

Blue Hyper Orange Green

#### Description

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

The Hyper Orange source color devices are made with

InGaAIP on GaAs substrate Light Emitting Diode.

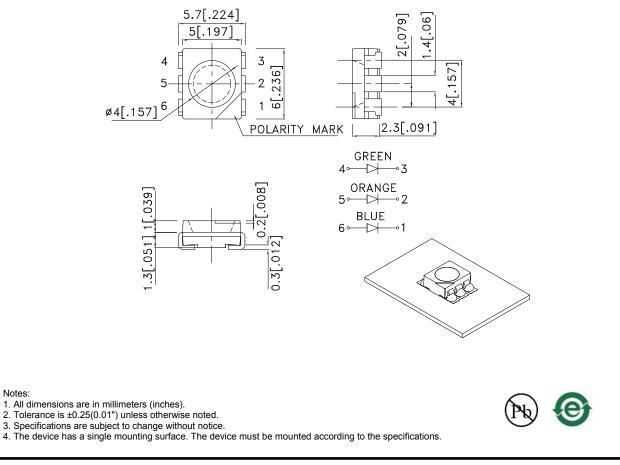
The Green source color devices are made with InGaN on SiC Light Emitting Diode.

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.





SPEC NO: DSAI1566 **APPROVED: WYNEC** 

Notes:

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

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Selection Guide								
Part No.	Dice	Lens Type	lv (mcd) [2] @ 30mA *50mA		Viewing Angle [1]			
		21	Min.	Тур.	201/2			
AAAF5060PBESEEVGEC	Blue (InGaN)		110	250	100°			
	Hyper Orange (InGaAIP)	WATER CLEAR	*650	*1000				
	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%.

Electrical / Optical Characteristics at TA-25 C								
Symbol Parameter		Device	Тур.	Тур. Мах.		Test Conditions		
λpeak	Peak Wavelength	Blue Hyper Orange Green	468 630 520		nm	I⊧=20mA		
λD [1]	Dominant Wavelength	Blue Hyper Orange Green	470 621 525		nm	I⊧=20mA		
Δλ1/2	Spectral Line Half-width	Blue Hyper Orange Green	21 20 35		nm	I⊧=20mA		
С	Capacitance	Blue Hyper Orange Green	100 25 100		pF	VF=0V;f=1MHz		
Vf [2]	Forward Voltage	Blue Hyper Orange Green	3.2 2 3.2	4 2.5 4	V	I⊧=20mA		
lr	Reverse Current	Blue Hyper Orange Green		10 10 10	uA	Vr=5V		

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

Notes:

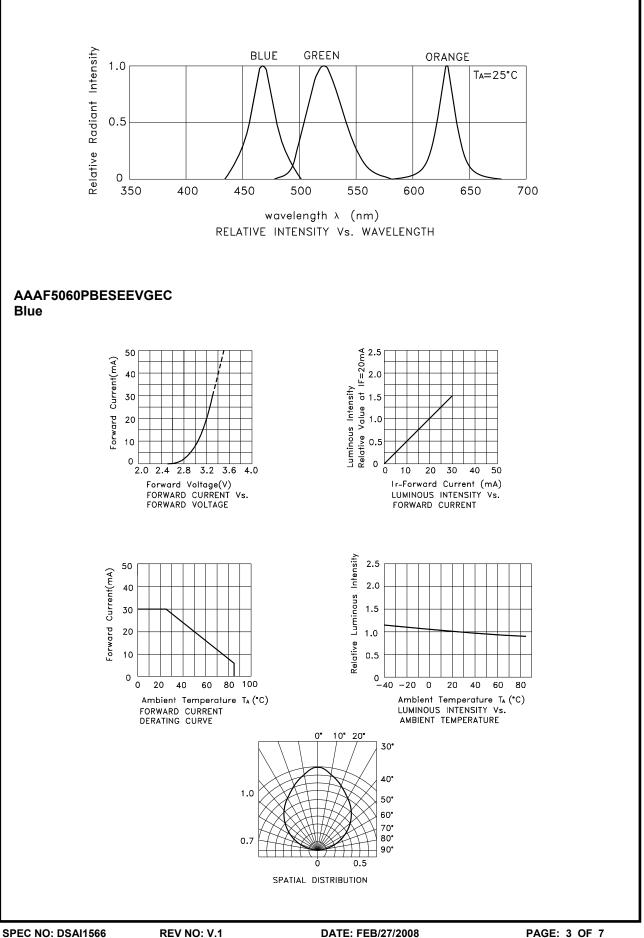
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

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

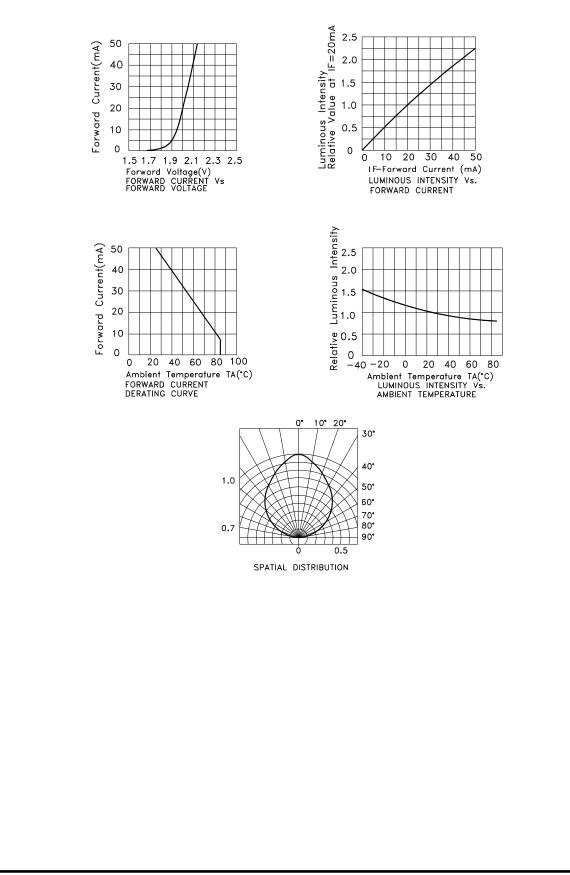
Parameter	Blue	Hyper Orange	Green	Units		
Power dissipation[2]		mW				
DC Forward Current	30	50	30	mA		
Peak Forward Current [1]	100	195	100	mA		
Reverse Voltage		V				
Operating Temperature	-40°C To +85°C					
Storage Temperature	-40°C To +85°C					

Notes:

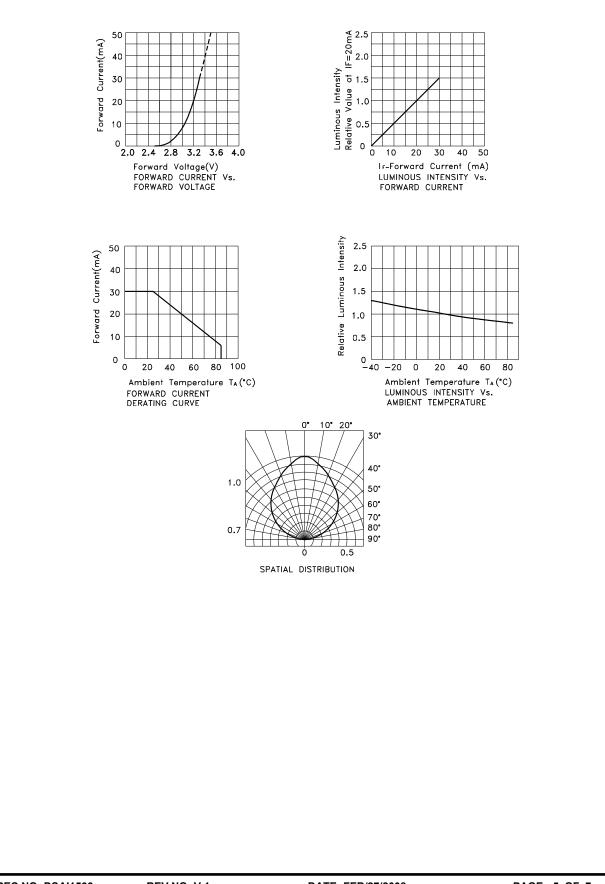
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. Within 350mW at all chips are lightened.

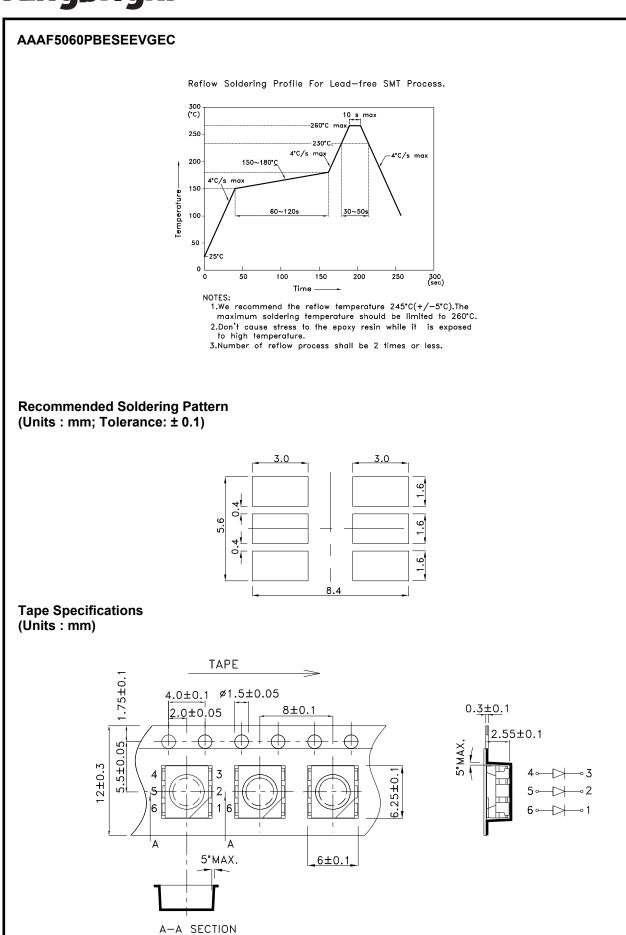


### Hyper Orange









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