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.
- Shelf Life: 1 year.
- · RoHS compliant.

5.0mm x 6.0mm BI-COLOR SURFACE MOUNT LED LAMP

Part Number: AAA5060SUREVGEC

Hyper Red Green

Description

The Hyper Red source color devices are made with

AlGaInP on GaAs substrate Light Emitting Diode.

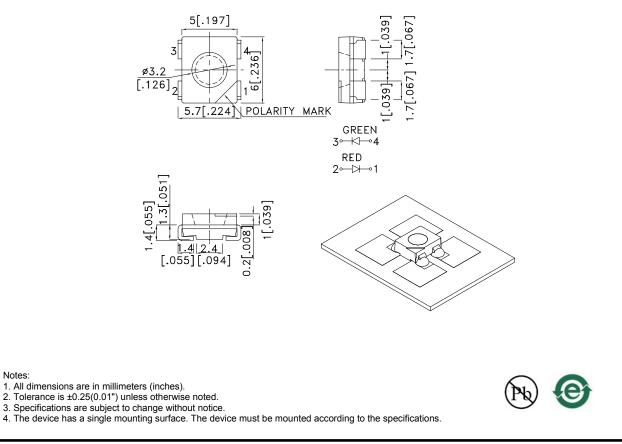
The Green source color devices are made with InGaN on SiC Light Emitting Diode.

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:

REV NO: V.10 CHECKED: Allen Liu DATE: AUG/19/2009 **DRAWN: S.P.Chen**

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Selection Guide								
Part No.	Dice	Lens Type	lv (mcd) [2] @ 50mA *30mA		Viewing Angle [1]			
			Min.	Тур.	201/2			
AAA5060SUREVGEC	Hyper Red (AlGaInP)	WATER CLEAR	380	700	100°			
	Green (InGaN)	WATER CLEAR	*280	*600				

Notes:

1. 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 30mA; Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red Green	640 520		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red Green	630 525		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red Green	25 35		nm	I⊧=20mA
С	Capacitance	Hyper Red Green	45 100		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Hyper Red Green	1.9 3.2	2.5 4	V	I⊧=20mA
lr	Reverse Current	Hyper Red Green		10 10	uA	VR = 5V

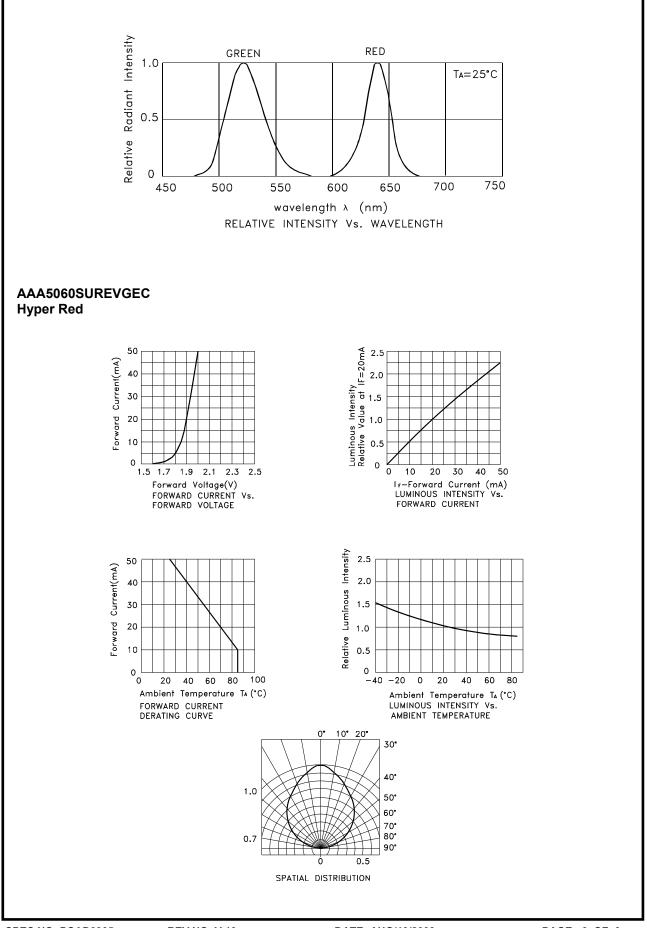
Notes:

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

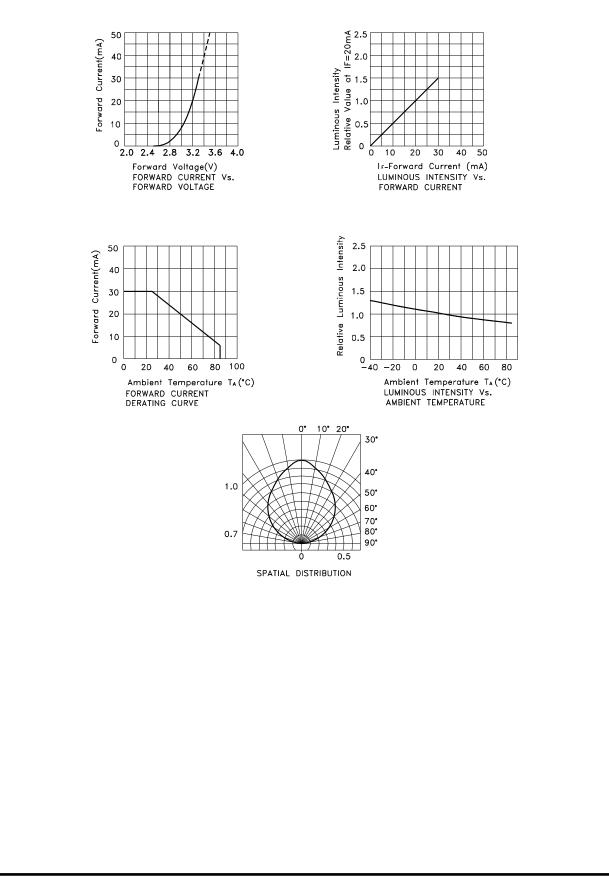
Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red	Green	Units		
Power dissipation	125	120	mW		
DC Forward Current	50	30	mA		
Peak Forward Current [1]	200	100	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

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



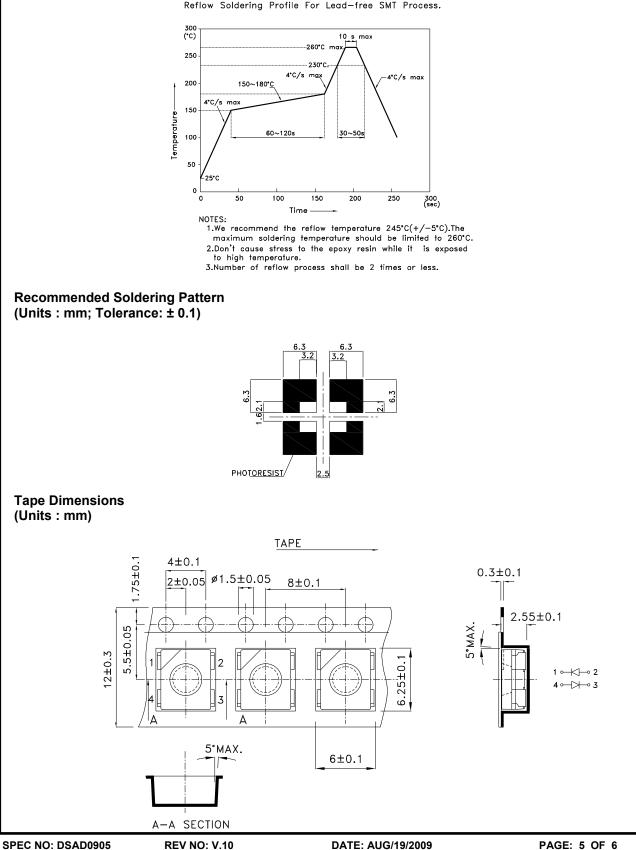




AAA5060SUREVGEC

Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



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