3.5X2.8mm SURFACE MOUNT SMD CHIP LED

BLUE

GREEN

HYPER ORANGE

Part Number: AAAF3528PBGSEJVGAW

PRELIMINARY SPEC



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- •OUTSTANDING MATERIAL EFFICIENCY.
- •LOW POWER CONSUMPTION.

•ONE BLUE, ONE ORANGE AND ONE GREEN CHIPS IN ONE PACKAGE.

•CAN PRODUCE ANY COLOR IN VISIBLE SPECTRUM, INCLUDING WHITE LIGHT.

•SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.

•AVAILABLE ON TAPE AND REEL.

•MOISTURE SENSITIVITY LEVEL : LEVEL 4.

•RoHS COMPLIANT.

Description

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

The Super Bright device is based on light emitting diode chip made from AlInGaP.

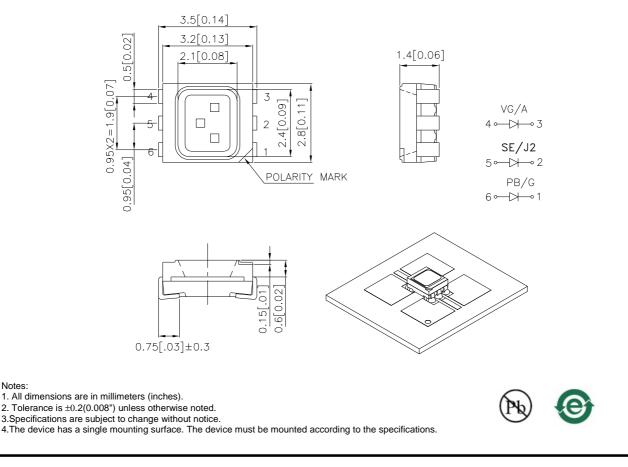
The Green source color devices are made with InGaN on G-SiC Light Emitting Diode.

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: DSAH1780 **APPROVED: WYNEC**

Notes:

REV NO: V.3 CHECKED: Allen Liu DATE: JUN/18/2007 DRAWN: D.M.LIU

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	2 0 1/2
AAAF3528PBGSEJVGAW	BLUE (InGaN)	WHITE DIFFUSED	70	200	120°
	HYPER ORANGE (AlGaInP)		900	1700	
	GREEN (InGaN)		110	330	

Notes:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

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

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue Hyper Orange Green	468 640 520		nm	IF=20mA
λD [1]	Dominant Wavelength	Blue Hyper Orange Green	470 630 525		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Blue Hyper Orange Green	21 25 35		nm	IF=20mA
С	Capacitance	Blue Hyper Orange Green	100 27 100		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Blue Hyper Orange Green	3.2 2.2 3.2	4.0 2.8 4.0	V	IF=20mA
IR	Reverse Current	Blue Hyper Orange Green		10 10 10	uA	Vr = 5V

Notes:

1.Wavelength: +/-1nm.

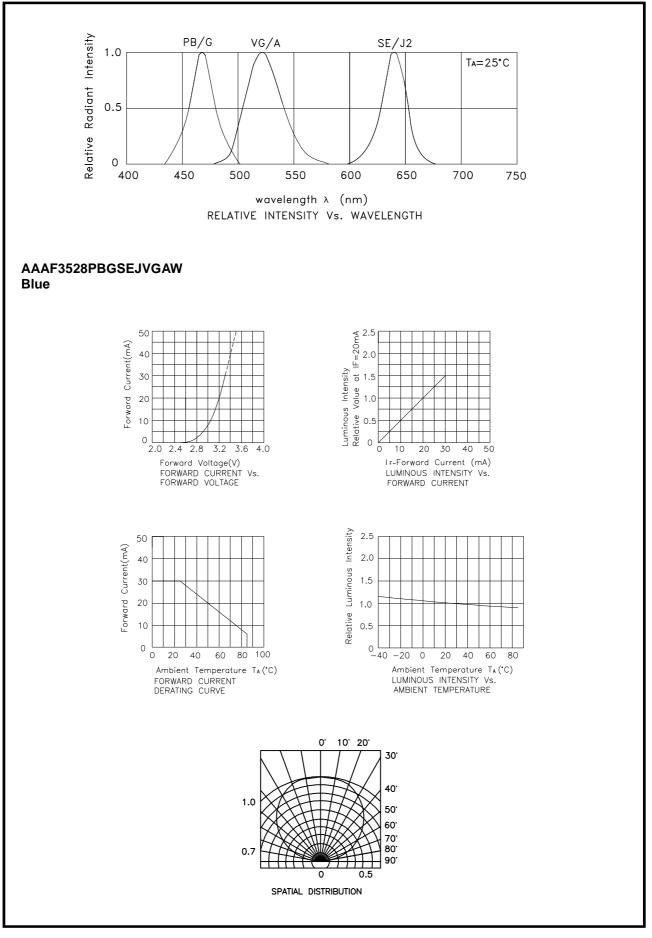
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Hyper Orange	Green	Units
Power dissipation	120	140	200	mW
DC Forward Current	30	50	50	mA
Peak Forward Current [1]	100	150	100	mA
Reverse Voltage			V	
Operating / Storage Temperature	-40°C To +85°C			

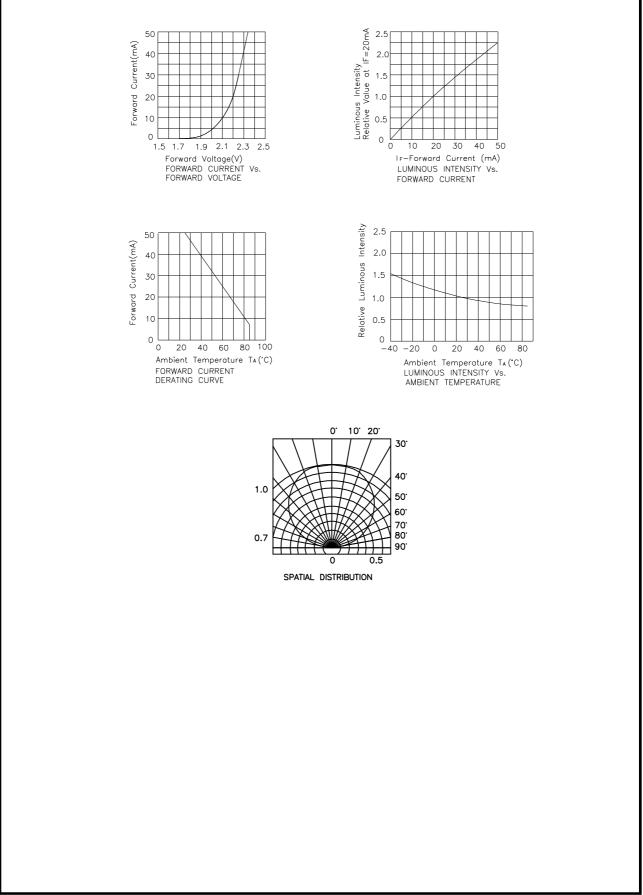
Note:

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

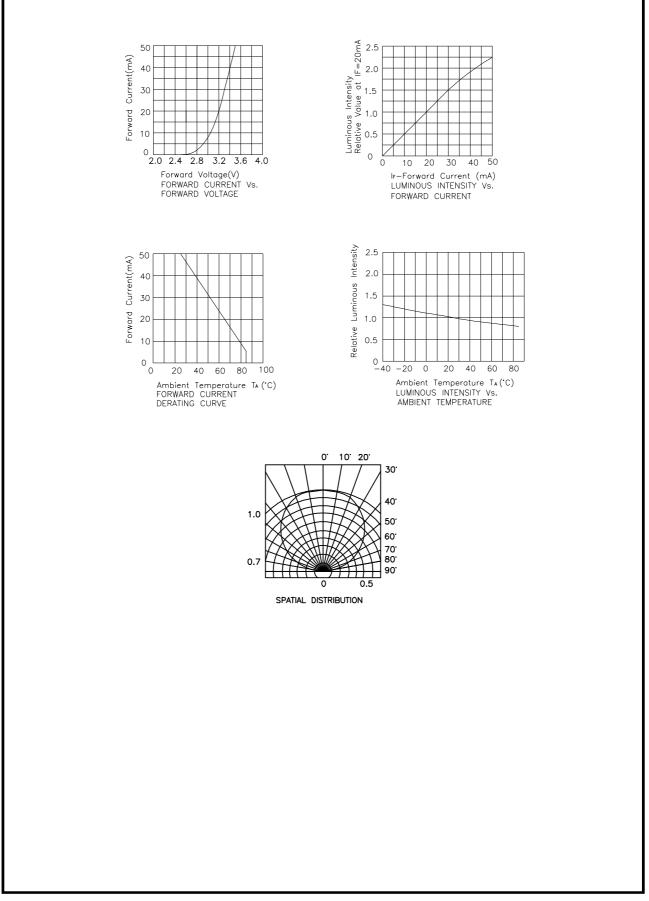


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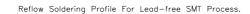
Hyper Orange

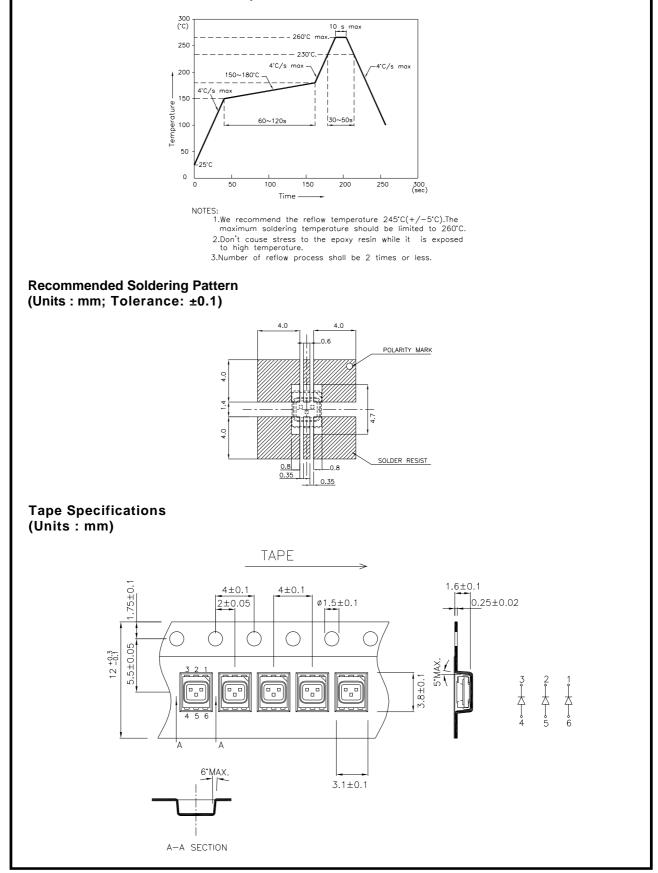


Green



AAAF3528PBGSEJVGAW





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