ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- 3.2mmx3.6mm SMT LED, 1.1mm thickness.
- Low power consumption.
- One red, one green and one blue chips in one package.
- Can produce any color in visible spectrum, including white light.
- Package : 1000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

3.2mmx3.6mm FULL-COLOR SURFACE MOUNT LED LAMP

Part Number: APF3236SURKVGAPBA

Hyper Red Green Blue

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 G-SiC Light Emitting Diode.

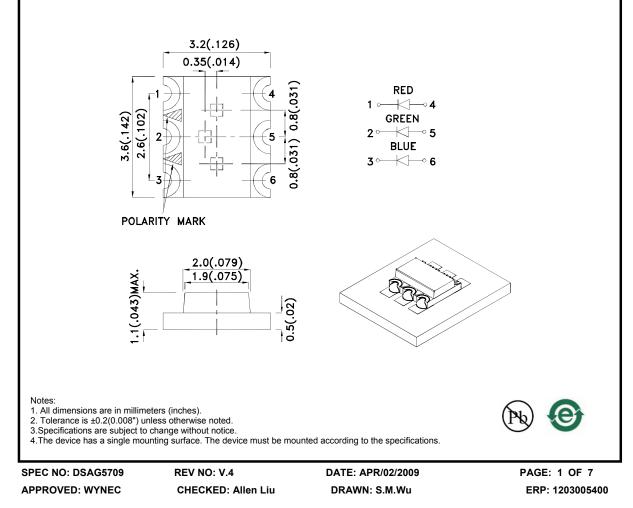
The Blue source color devices are made with InGaN on SiC Light Emitting Diode.

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.

Package Dimensions



Downloaded from Elcodis.com electronic components distributor

Selection Guide								
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]			
			Min.	Тур.	201/2			
APF3236SURKVGAPBA	Hyper Red (AlGaInP)		70	220	120°			
	Green (InGaN)	WATER CLEAR	50	150				
	Blue (InGaN)		18	60				

Notes:

1. 61/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
Luminous intensity/ luminous Flux: +/-15%.

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions		
λpeak	Peak Wavelength	Hyper Red Green Blue	650 520 468		nm	I⊧=20mA		
λD [1]	Dominant Wavelength	Hyper Red Green Blue	630 525 470		nm	I⊧=20mA		
Δλ1/2	Spectral Line Half-width	Hyper Red Green Blue	28 35 21		nm	I⊧=20mA		
С	Capacitance	Hyper Red Green Blue	35 100 100		pF	VF=0V;f=1MHz		
Vf [2]	Forward Voltage	Hyper Red Green Blue	1.95 3.2 3.2	2.5 4 4	V	I⊧=20mA		
lr	Reverse Current	Hyper Red Green Blue		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

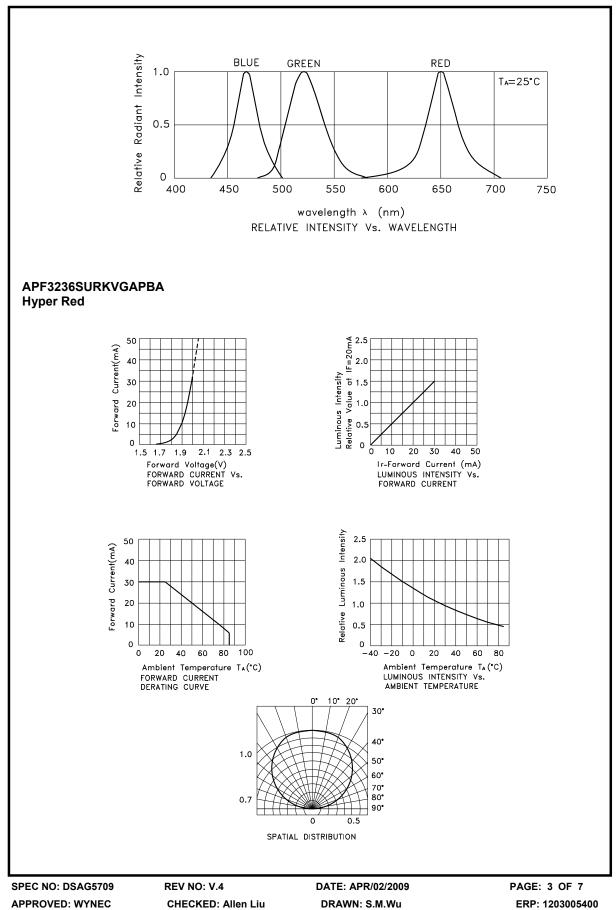
Parameter	Hyper Red	Green	Blue	Units			
Power dissipation	75	120	120	mW			
DC Forward Current	30	30	30	mA			
Peak Forward Current [1]	185	100	100	mA			
Reverse Voltage		V					
Operating Temperature	-40°C To +85°C						
Storage Temperature	-40°C To +85°C						

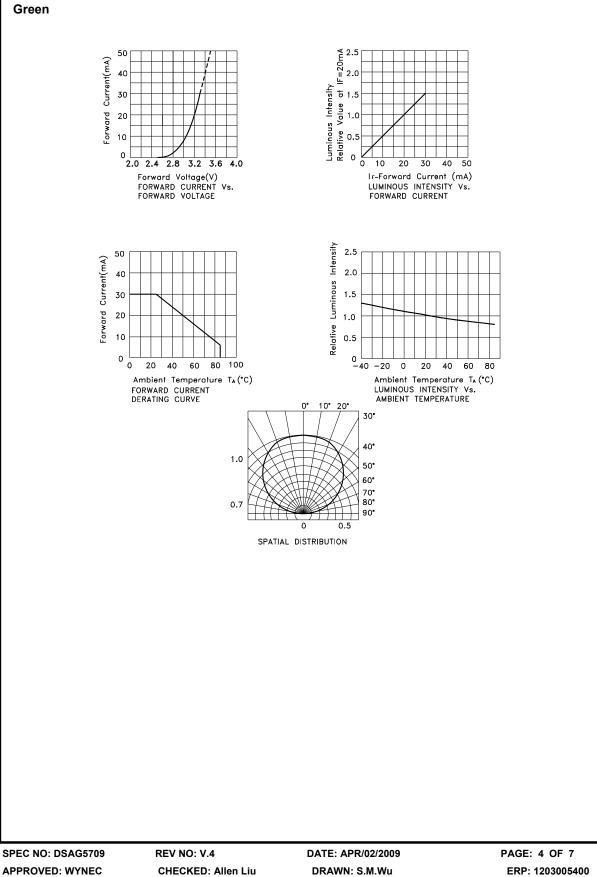
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

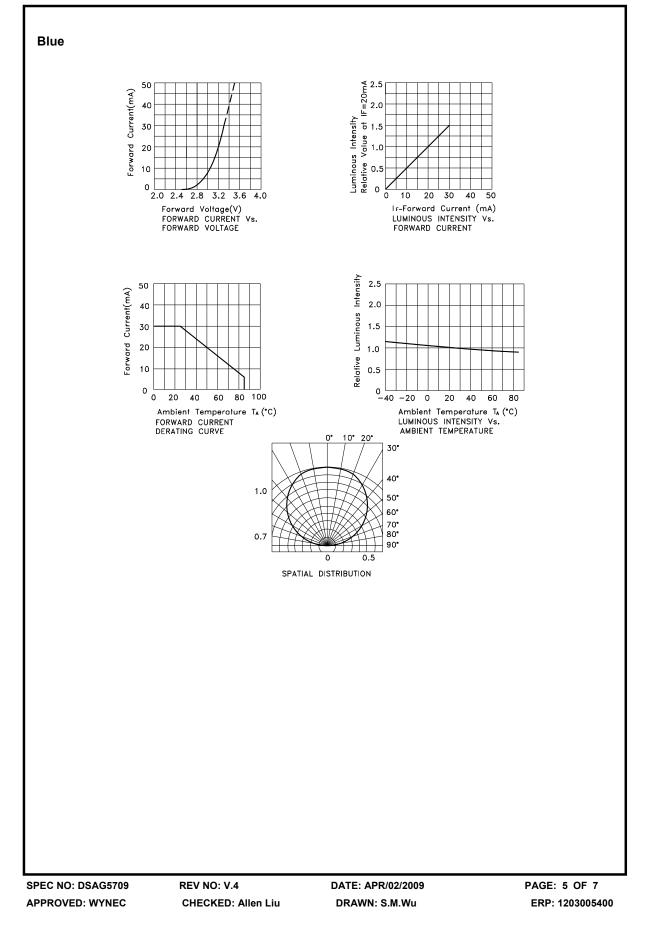
SPEC NO: DSAG5709 APPROVED: WYNEC

REV NO: V.4 CHECKED: Allen Liu DATE: APR/02/2009 DRAWN: S.M.Wu

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APF3236SURKVGAPBA

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.

