

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.
- Package : 1000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

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

Part Number: APF3236SEEZGQBDC

Hyper Red Green Blue

Description

The Hyper Red source color devices are made with Al-GaInP on GaAs substrate Light Emitting Diode.

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

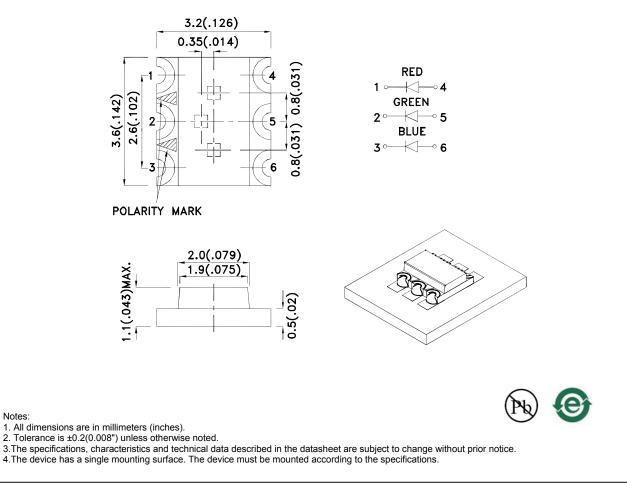
The Blue source color devices are made with InGaN on Sapphire Light Emitting Diode.

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



SPEC NO: DSAM6692 **APPROVED: WYNEC**

Notes:

REV NO: V.1B CHECKED: Allen Liu DATE: SEP/19/2012 DRAWN: F.Cui

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APF3236SEEZGQBDC	Hyper Red (AlGaInP)		80	140	120°
	Green (InGaN)	Water Clear	200	330	
	Blue (InGaN)		40	70	

Notes:

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

Luminous intensity/ luminous Flux: +/-15%.
Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red Green Blue	630 515 468		nm	IF=20mA
λD [1]	Dominant Wavelength	Hyper Red Green Blue	621 525 470		nm IF=20mA	
Δλ1/2	Spectral Line Half-width	Hyper Red Green Blue	20 30 25		nm	I⊧=20mA
С	Capacitance	Hyper Red Green Blue	25 45 100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red Green Blue	2 3.3 3.3	2.5 4.1 4	V	IF=20mA
lr	Reverse Current	Hyper Red Green Blue		10 50 50	uA	Vr=5V

Notes:

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

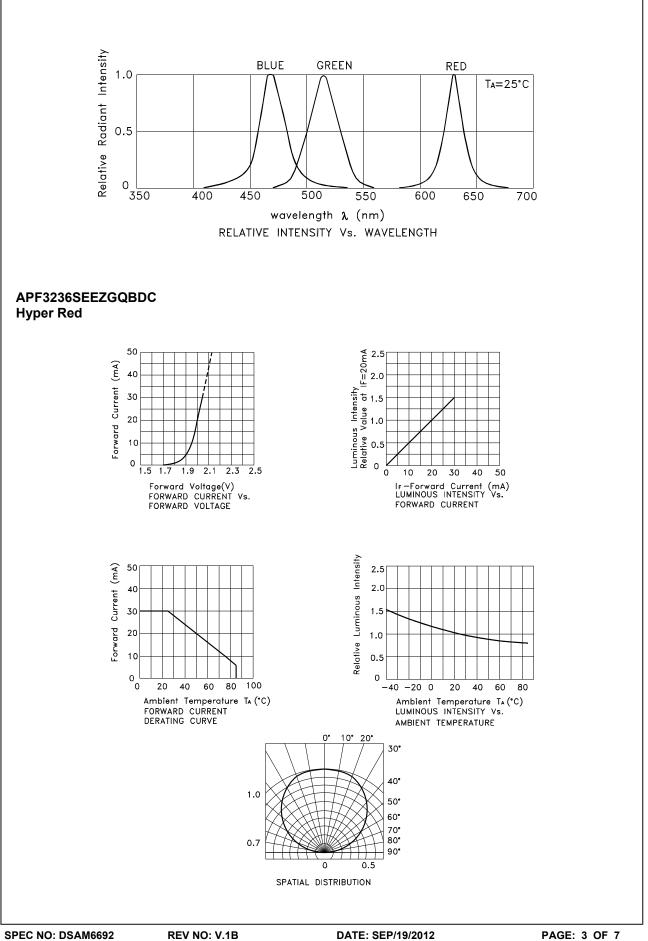
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

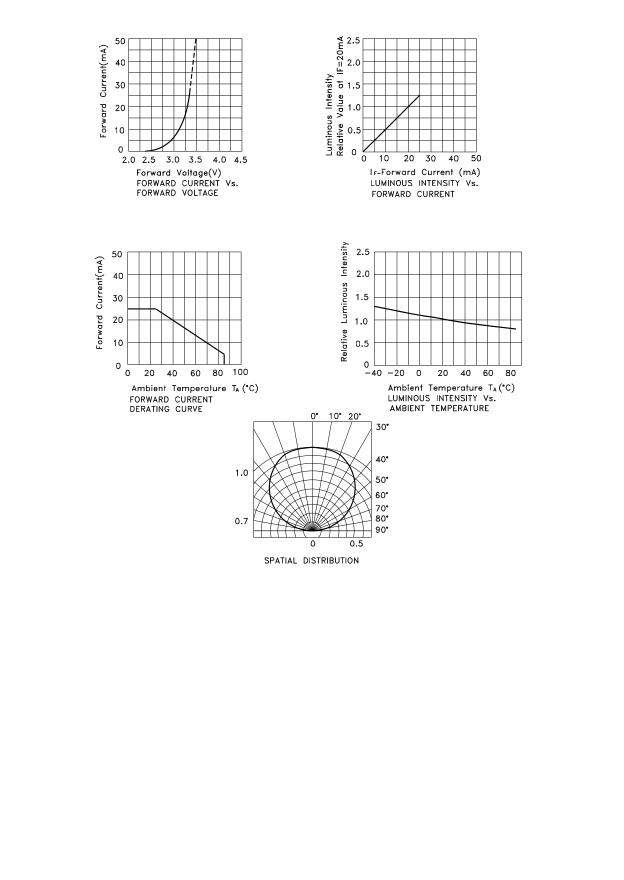
Parameter	Hyper Red	Green	Blue	Units		
Power dissipation	75	102.5	120	mW		
DC Forward Current	30	25	30	mA		
Peak Forward Current [1]	195	150	150	mA		
Reverse Voltage	5					
Operating Temperature	-40°C To +85°C					
Storage Temperature	-40°C To +85°C					

Notes:

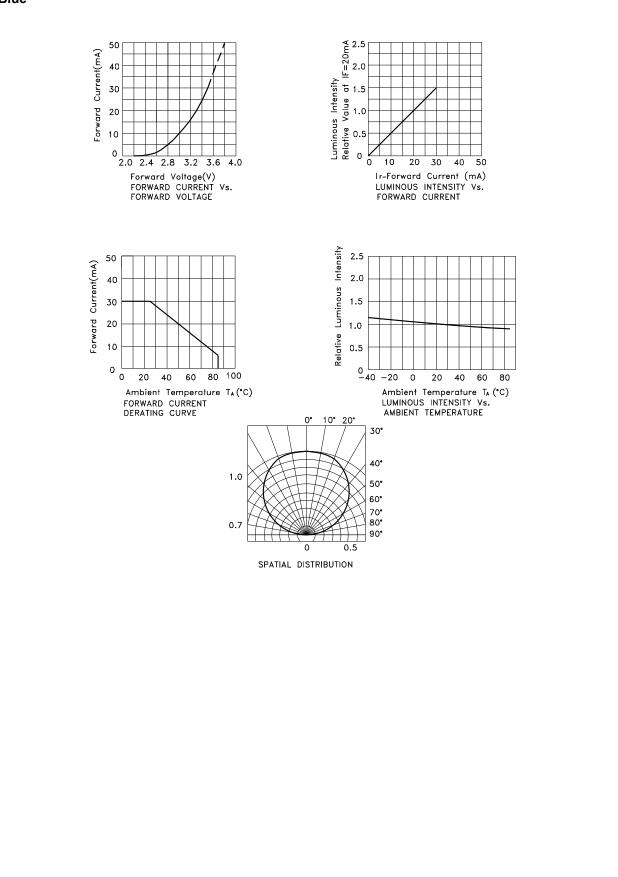
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



Green



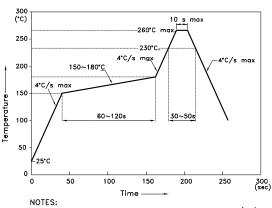
Blue



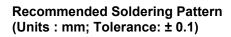
APF3236SEEZGQBDC

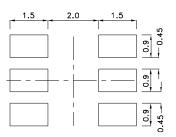
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

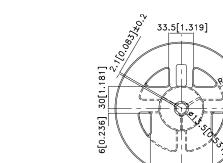
Reflow Soldering Profile For Lead-free SMT Process.



NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3.Number of reflow process shall be 2 times or less.



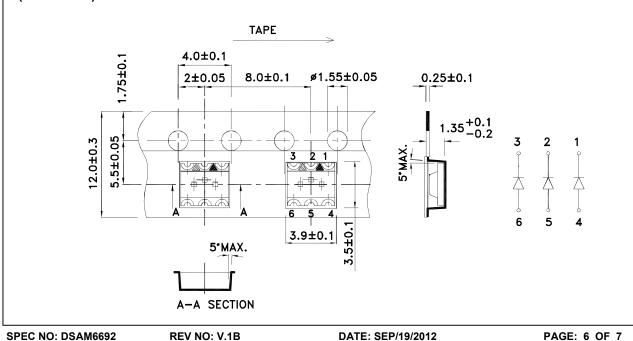




Reel Dimension

83[3.268]

Tape Dimensions (Units : mm)



APPROVED: WYNEC

CHECKED: Allen Liu

DRAWN: F.Cui

ERP: 1203013273

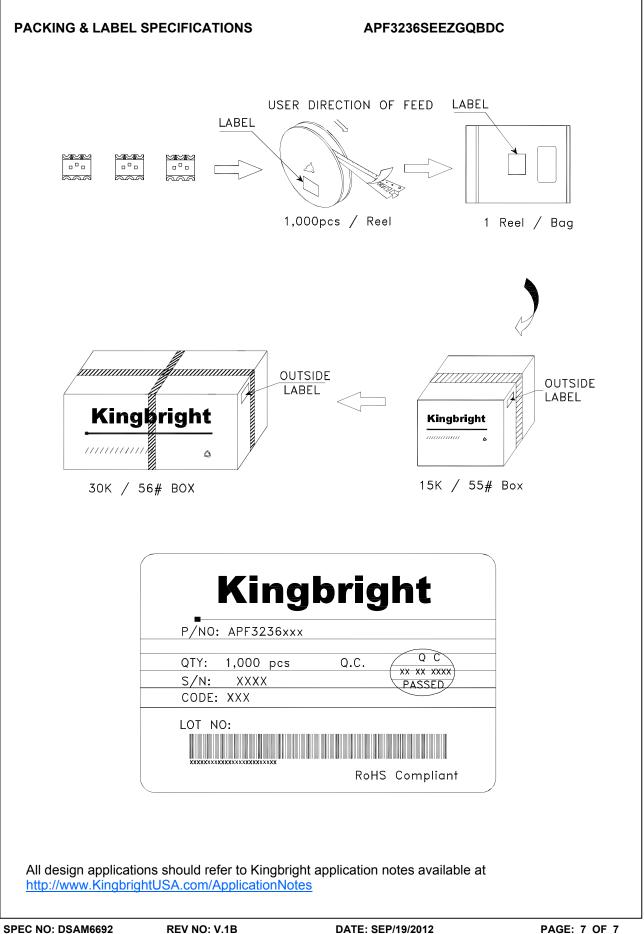
16.55[0.652]±0.2

13.7[0.539]±0.2

2.323)

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78[7.008]



Mouser Electronics

Authorized Distributor

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