2.0x1.25mm SMD CHIP LED LAMP

Part Number: APHBM2012PBASURKC

Blue Hyper Red

Hyper Red

Description

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

The Hyper Red source color devices are made with Al-

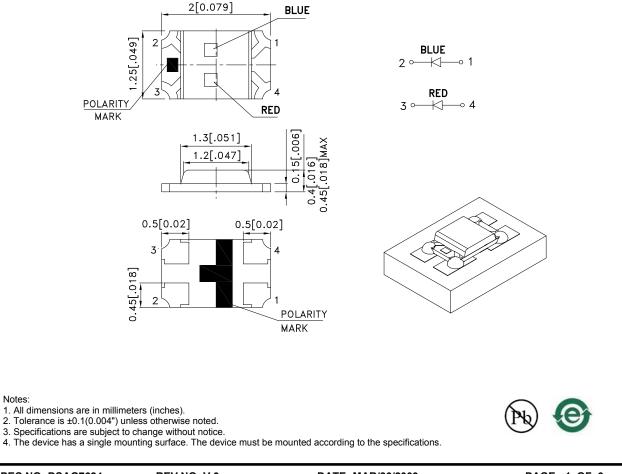
GaInP on GaAs substrate Light Emitting Diode.

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





ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- 2.0mmx1.25mm SMT LED, 0.45mm max. thickness.
- Bi -color, low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

DATE: MAR/26/2009 DRAWN: D.M.Su

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Selection Guide							
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]		
			Min.	Тур.	201/2		
APHBM2012PBASURKC	Blue (InGaN)	WATER CLEAR	18	50	120°		
	Hyper Red (AlGaInP)	WATER CLEAR	70	220			

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

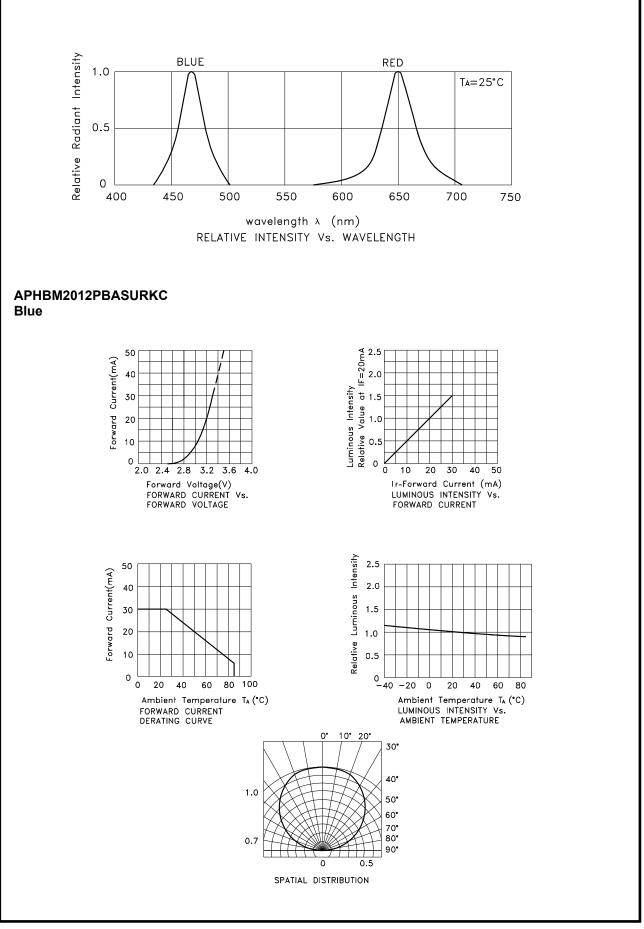
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue Hyper Red	468 650		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Blue Hyper Red	470 630		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Blue Hyper Red	21 28		nm	IF=20mA
С	Capacitance	Blue Hyper Red	100 35		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue Hyper Red	3.2 1.95	4 2.5	V	IF=20mA
lr	Reverse Current	Blue Hyper Red		10 10	uA	VR = 5V

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

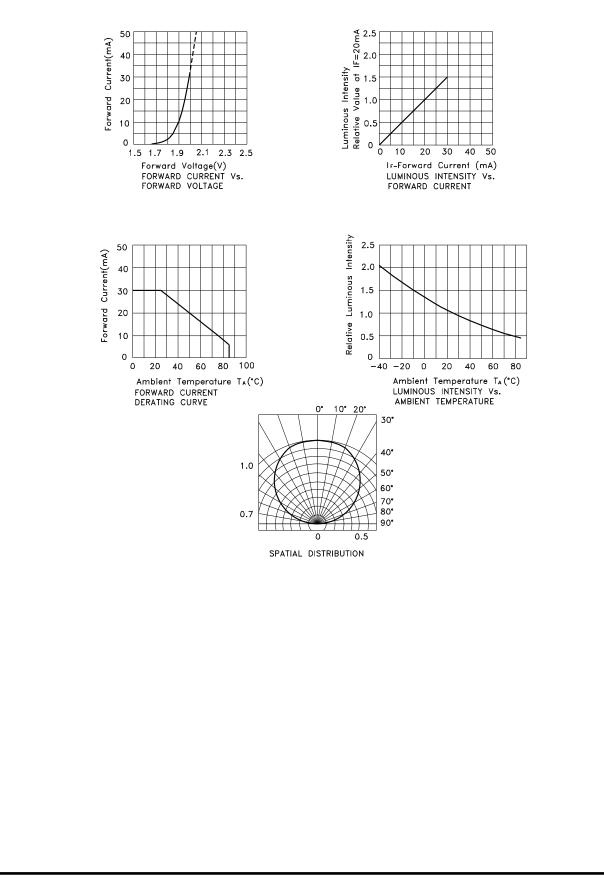
Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Hyper Red	Units		
Power dissipation	120	75	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	100	185	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.



Hyper Red



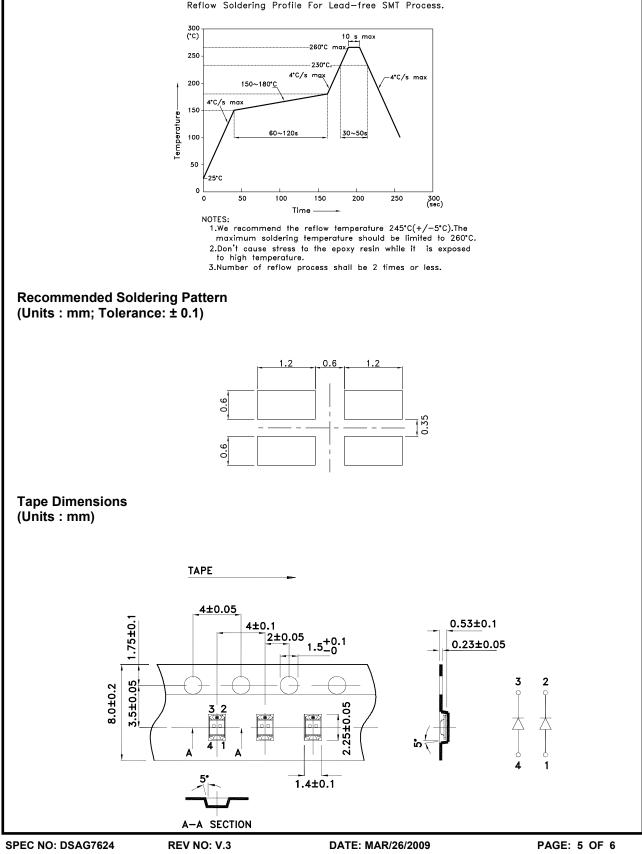
APHBM2012PBASURKC

APPROVED: WYNEC

CHECKED: Allen Liu

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.



DRAWN: D.M.Su

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