

Excellent Integrated System Limited

Stocking Distributor

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Kingbright APBD3224ESGC-F01

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Distributor of Kingbright: Excellent Integrated System Limited Datasheet of APBD3224ESGC-F01 - LED GREEN/RED CLEAR 1210 SMD Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Kingbright

3.2x2.4mm SMD CHIP LED LAMP

Part Number: APBD3224ESGC-F01

High Efficiency Red Super Bright Green

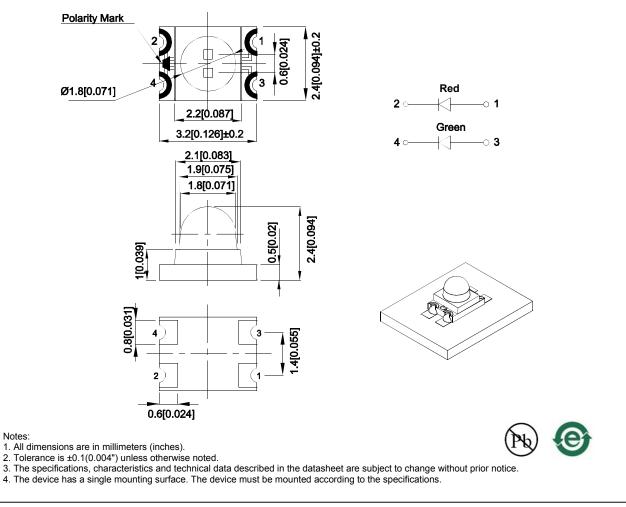
Features

- 3.2x2.4mm SMD LED, 2.4mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Package : 1500pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Descriptions

- The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.
- The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.





SPEC NO: DSAF1337



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Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APBD3224ESGC-F01	High Efficiency Red (GaAsP/GaP)	Water Clear	30	70	20°
			*12	*40	
	Super Bright Green (GaP)		20	55	
			*20	*55	

Notes:

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

2. 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	Emitting Color	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	High Efficiency Red Super Bright Green	627 565		nm	IF=20mA	
λD [1]	Dominant Wavelength	High Efficiency Red Super Bright Green	617 568		nm	IF=20mA	
Δλ1/2	Spectral Line Half-width	High Efficiency Red Super Bright Green	45 30		nm	I⊧=20mA	
С	Capacitance	High Efficiency Red Super Bright Green	15 15		pF	VF=0V;f=1MHz	
Vf [2]	Forward Voltage	High Efficiency Red Super Bright Green	2 2.2	2.5 2.5	V	I⊧=20mA	
lr	Reverse Current	High Efficiency Red Super Bright Green		10 10	uA	VR = 5V	

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

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

4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

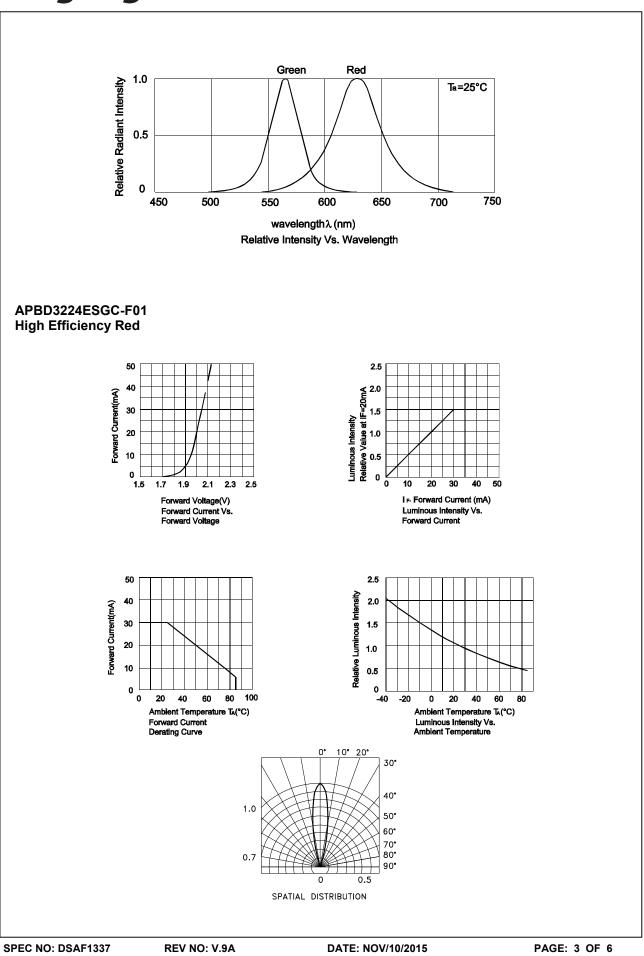
Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red	Super Bright Green	Units		
Power dissipation	75	62.5	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	160	140	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.



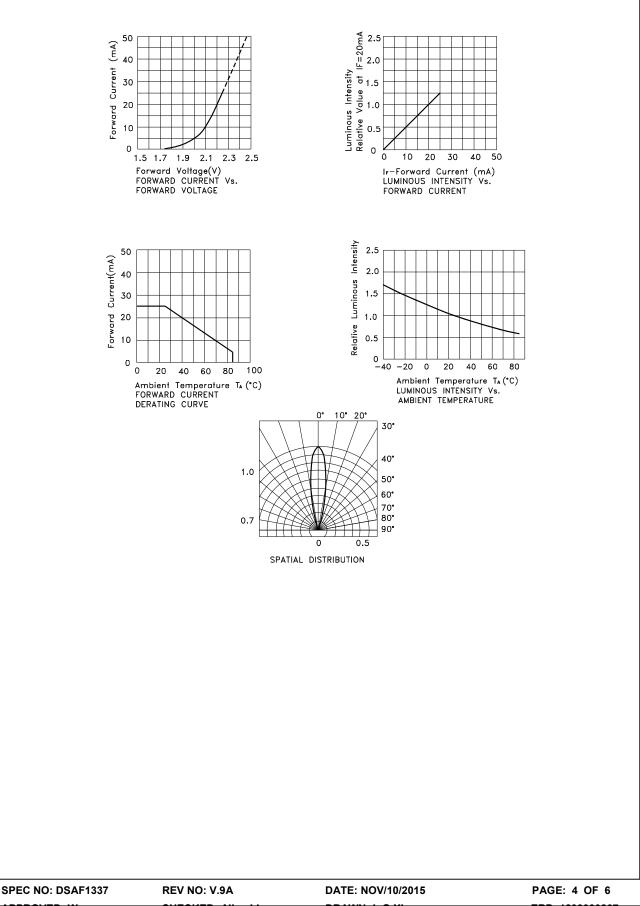




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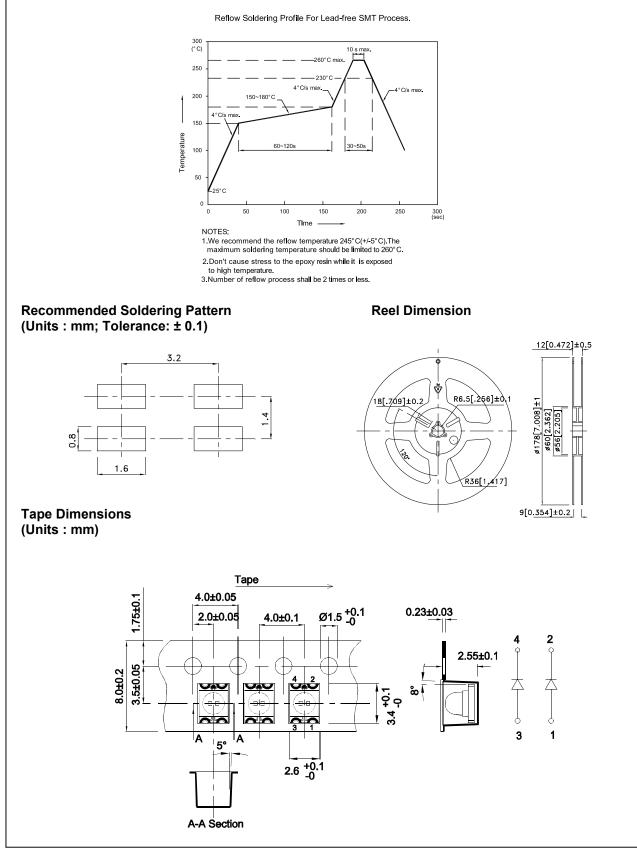
Super Bright Green





APBD3224ESGC-F01

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.



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