SOT-23 SURFACE MOUNT LED LAMP

Part Number: AM23ESGC

High Efficiency Red Super Bright Green

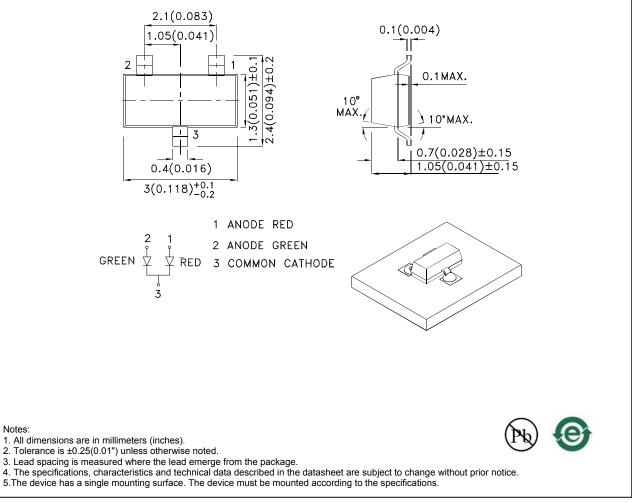
Features

- SOT-23 package surface mount LED lamp.
- Low power consumption.
- Long life solid state reliability.
- Package: 2000pcs / 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.

Package Dimensions



SPEC NO: DSAA8612 APPROVED: WYNEC REV NO: V.12A CHECKED: Allen Liu DATE: MAR/17/2015 DRAWN: P.Cheng PAGE: 1 OF 6 ERP: 1202000004

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Part No.	Dice	Lens Type		lv (mcd) [2] @ 20mA	
			Min.	Тур.	201/2
AM23ESGC	High Efficiency Red (GaAsP/GaP)		5	12	140°
			*3	*5	
	Super Bright Green (GaP)	- Water Clear	5	10	
			*5	*10	

Notes:

1. 61/2 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	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red Super Bright Green	627 565		nm	I⊧=20mA
λD [1]	Dominant Wavelength	High Efficiency Red Super Bright Green	617 568		nm	I⊧=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.

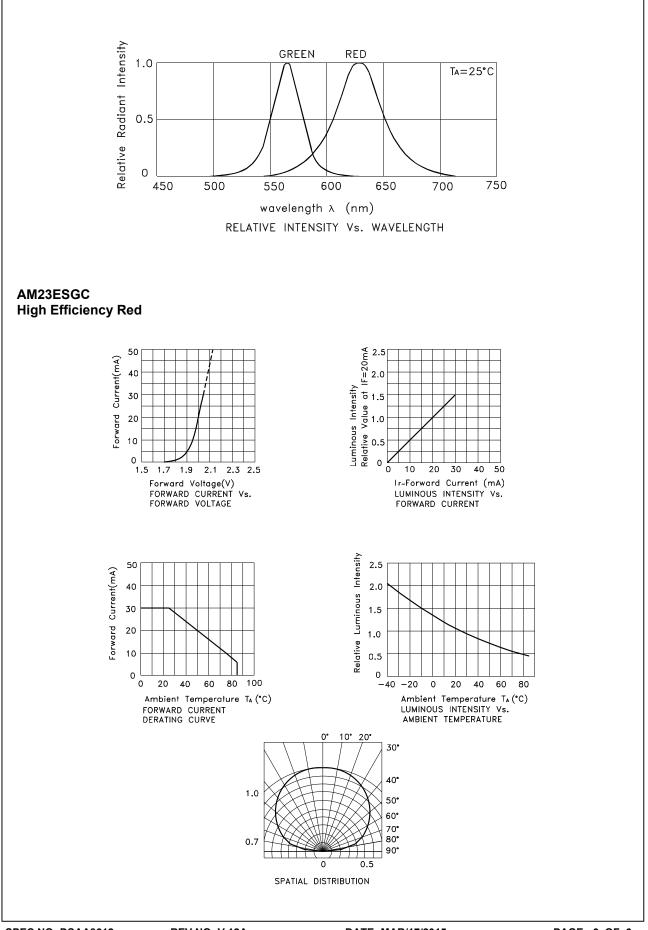
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

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

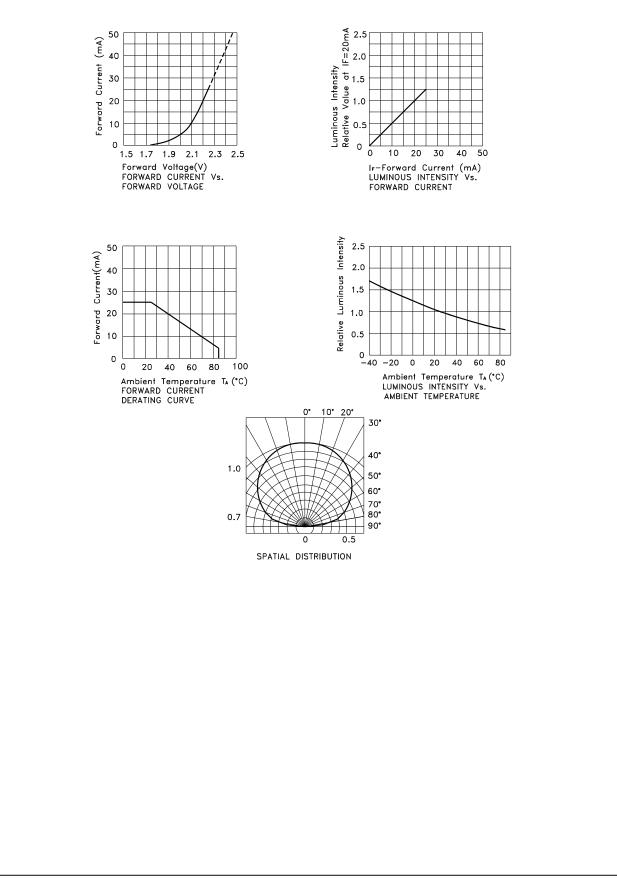
Absolute Maximum Ratings at TA=25°C

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.

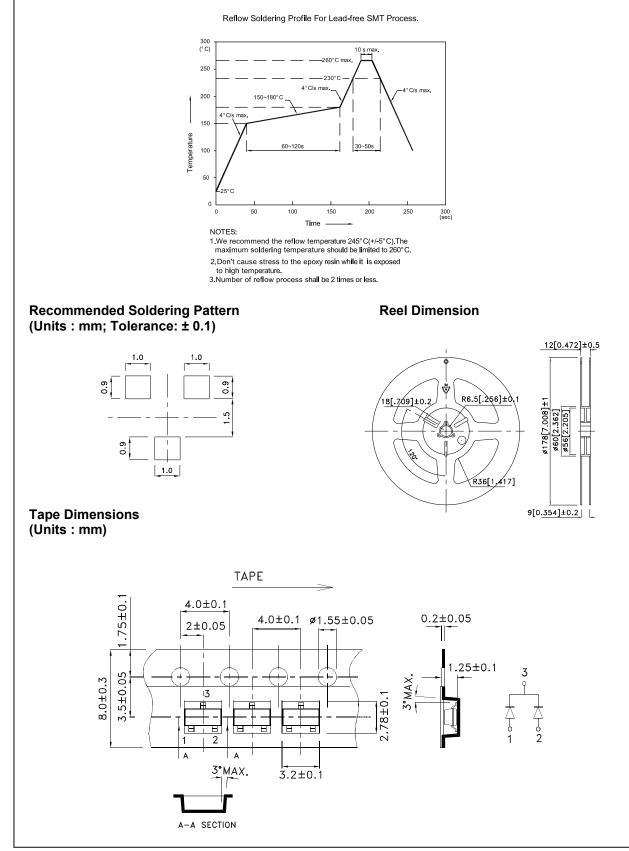


Super Bright Green

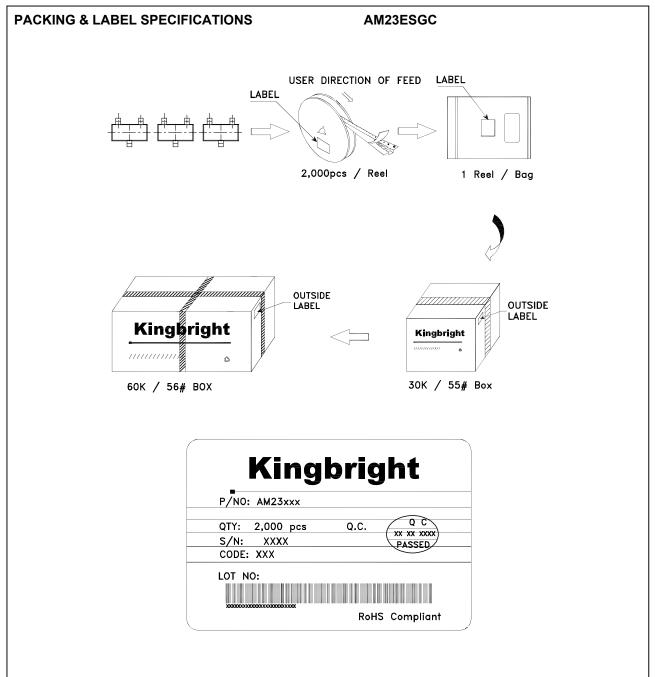


AM23ESGC

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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