SOT-23 SURFACE MOUNT LED LAMP

Part Number: KM-23ESGC-CA

High Efficiency Red Super Bright Green

Features

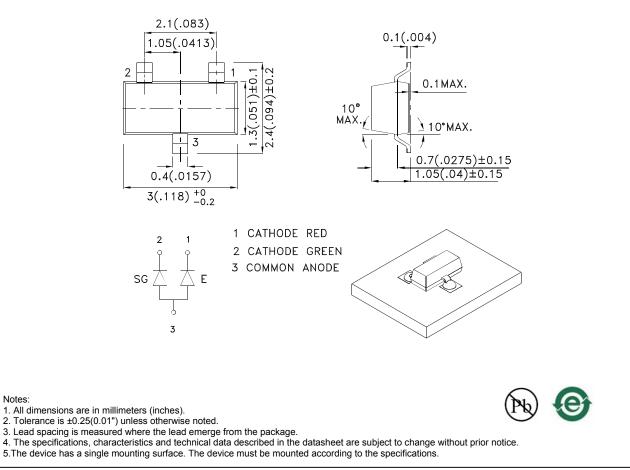
- SOT-23 package surface mount LED lamp.
- Low power consumption.
- Long life solid state reliability.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

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: DSAB0632 APPROVED: WYNEC REV NO: V.7A CHECKED: Allen Liu DATE: MAY/03/2012 DRAWN: D.M.Su PAGE: 1 OF 6 ERP: 1202000005

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KM-23ESGC-CA	High Efficiency Red (GaAsP/GaP)		5	12	140°
			*3	*5	
	Super Bright Green (GaP)	Water Clear	5	10	
			*5	*10	

Notes:

1. θ1/2 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	Ту	/p.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red Super Bright Green	627 565	*627 *565		nm	I⊧=20mA
λD [1]	Dominant Wavelength	High Efficiency Red Super Bright Green	625 568	*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
IR	Reverse Current	High Efficiency Red Super Bright Green			10 10	uA	VR = 5V

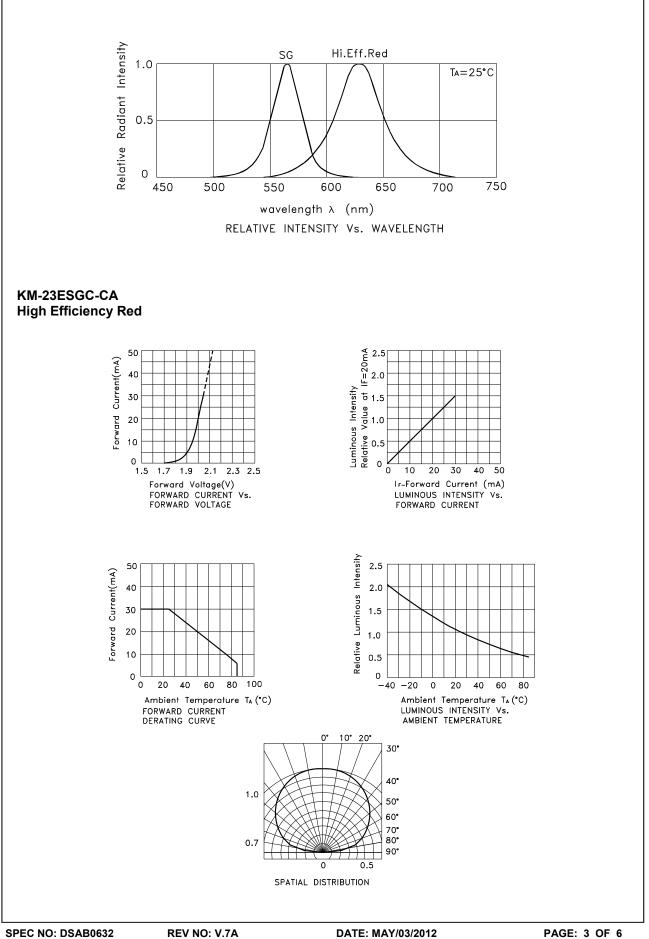
Notes:

1.Wavelength: +/-1nm. 2.Forward Voltage: +/-0.1V. *Wavelength value is traceable to the CIE127-2007 compliant national standards.

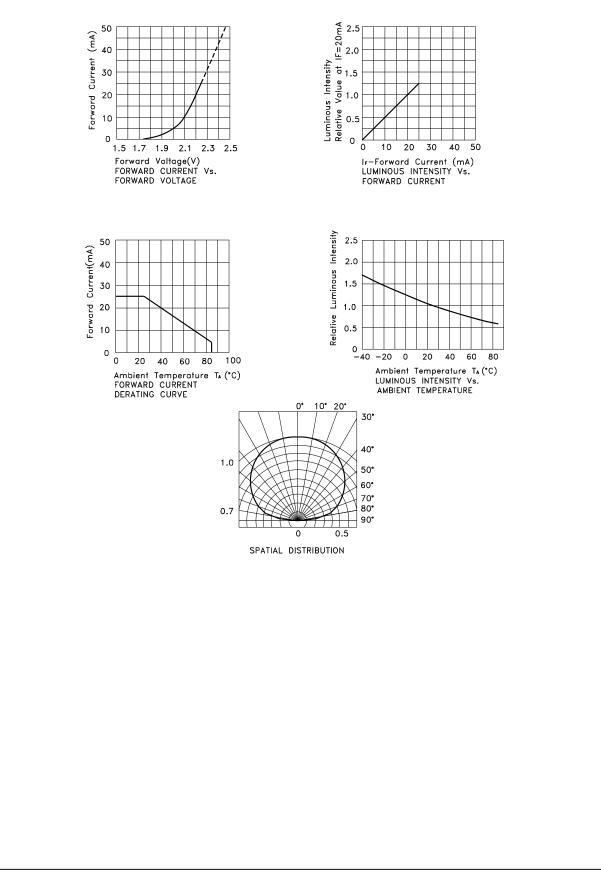
Absolute Maximum Ratings at TA=25°C

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.



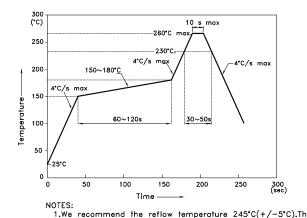
Super Bright Green



KM-23ESGC-CA

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.

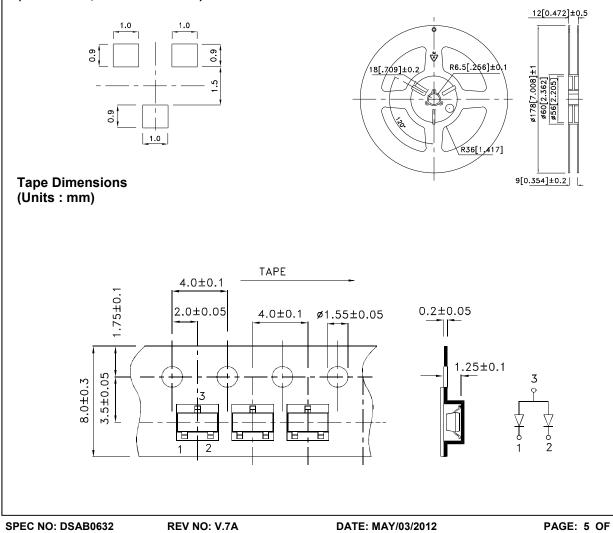
Reflow Soldering Profile For Lead-free SMT Process.



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.

Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)

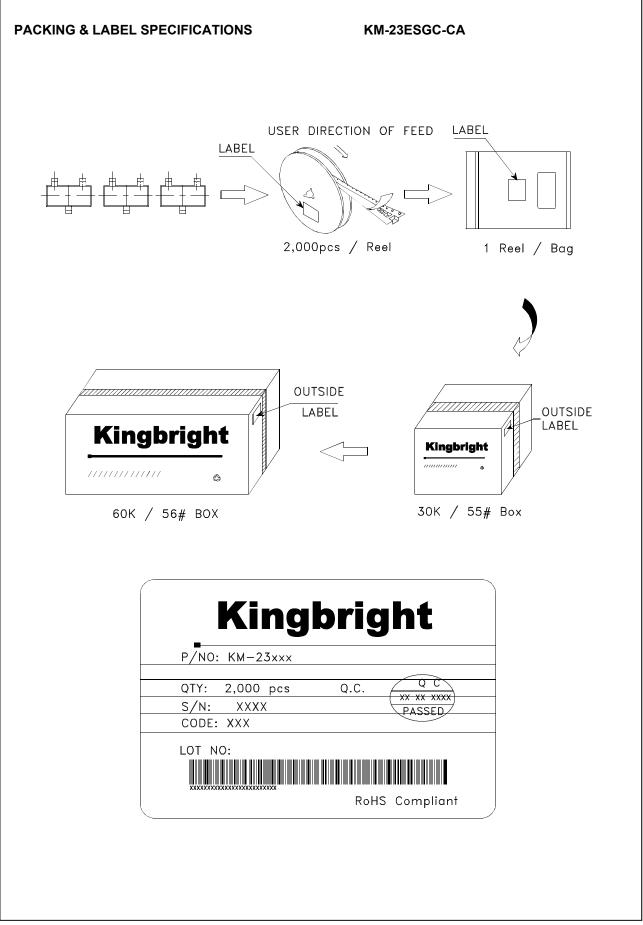
Reel Dimension



CHECKED: Allen Liu

DRAWN: D.M.Su

PAGE: 5 OF 6 ERP: 1202000005



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