3.5x2.8mm SURFACE MOUNT LED LAMP



ATTENTION **OBSERVE PRECAUTIONS** FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- Suitable for all SMT assembly and solder process.
- Available on tape and reel.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 4.
- RoHS compliant.

Part Number: KAA-3528EMBSGC

High Efficiency Red Blue Super Bright Green

Description

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

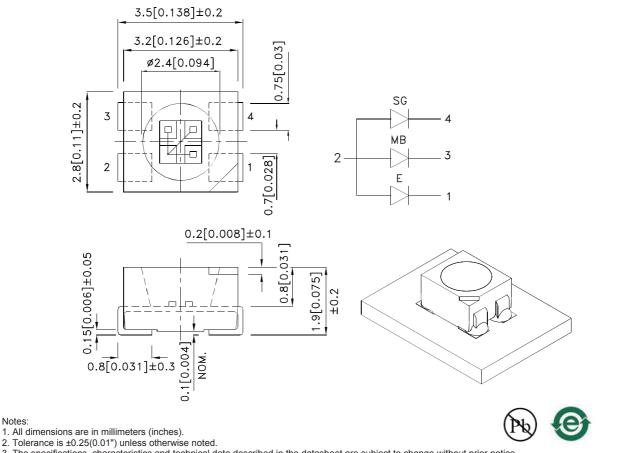
The Blue source color devices are made with GaN on SiC Light Emitting Diode.

The Super Bright Green source color devices are made with Gallium Phosphide Green 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.



3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice

4. The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAA0863 **APPROVED: WYNEC**

Notes:

REV NO: V.10A **CHECKED: Allen Liu** DATE: APR/19/2013 DRAWN: F.Cui

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Package Dimensions

Soloction Guida

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KAA-3528EMBSGC		Water Clear	12	30	120°
	High Efficiency Red (GaAsP/GaP)		*8	*15	
	Blue (GaN)		8	15	
			*8	*15	
	Super Bright Green (GaP)		12	30	
			*12	*30	

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	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red Blue Super Bright Green	627 430 565		nm	IF=20mA
λD [1]	Dominant Wavelength	High Efficiency Red Blue Super Bright Green	617 466 568		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red Blue Super Bright Green	45 60 30		nm	IF=20mA
С	Capacitance	High Efficiency Red Blue Super Bright Green	15 100 15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	High Efficiency Red Blue Super Bright Green	2 3.8 2.2	2.5 4.5 2.5	V	IF=20mA
lr	Reverse Current	High Efficiency Red Blue Super Bright Green		10 10 10	uA	Vr=5V

Notes:

1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

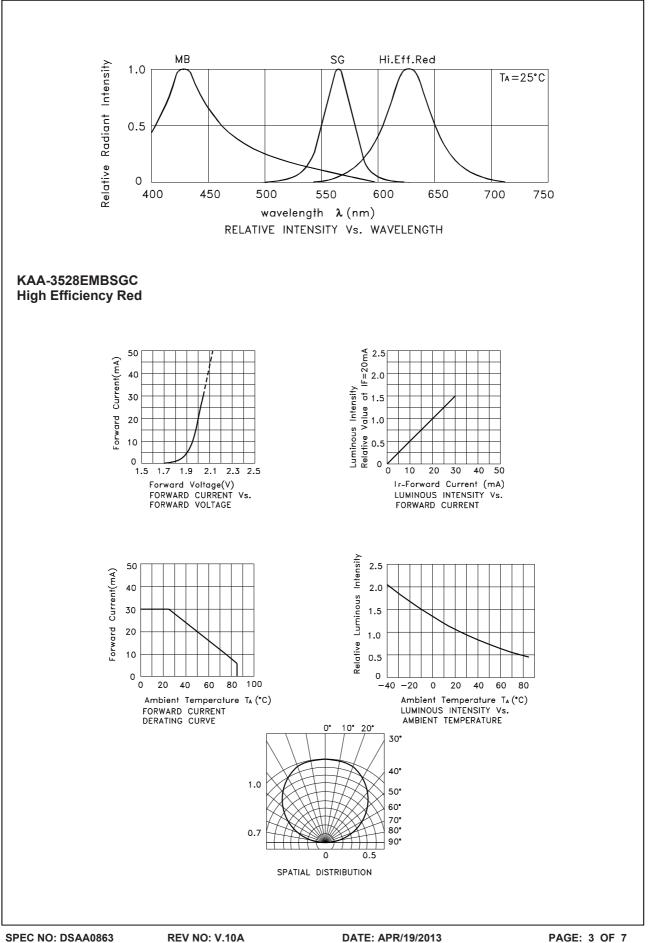
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

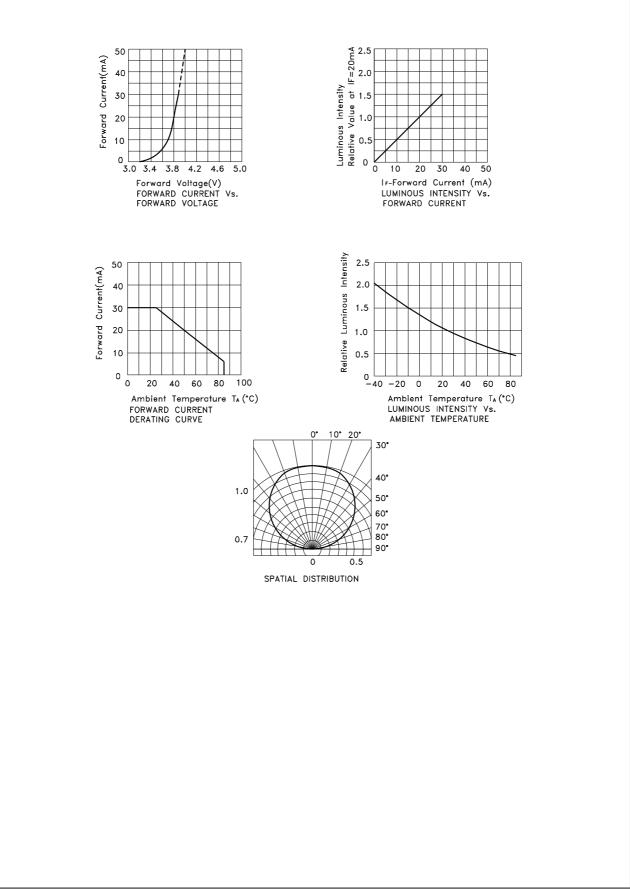
Parameter	High Efficiency Red	Blue	Super Bright Green	Units			
Power dissipation	75	135	62.5	mW			
DC Forward Current	30	30	25	mA			
Peak Forward Current [1]	160	150	140	mA			
Reverse Voltage		5					
Operating Temperature	-40°C To +85°C						
Storage Temperature	-40°C To +85°C						

Notes:

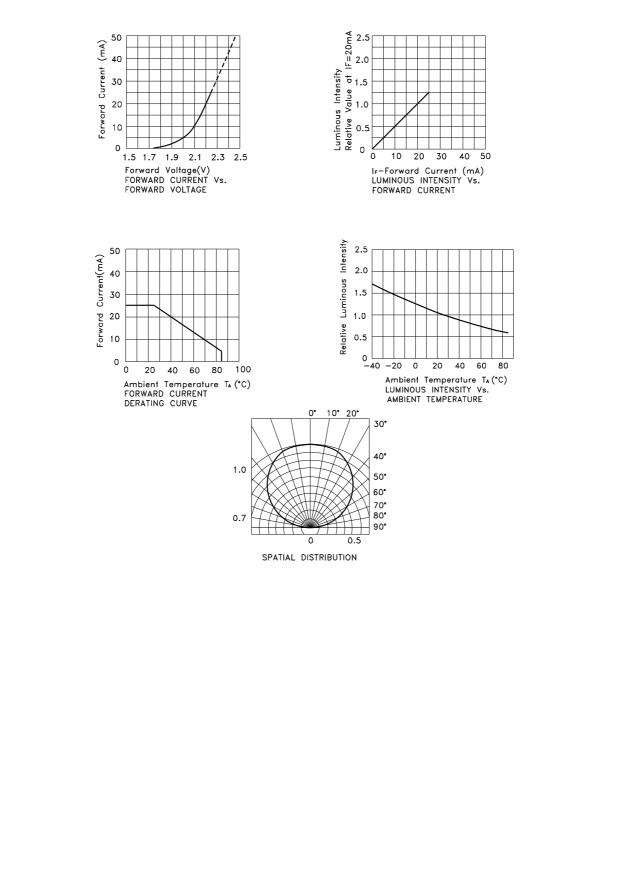
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



Blue



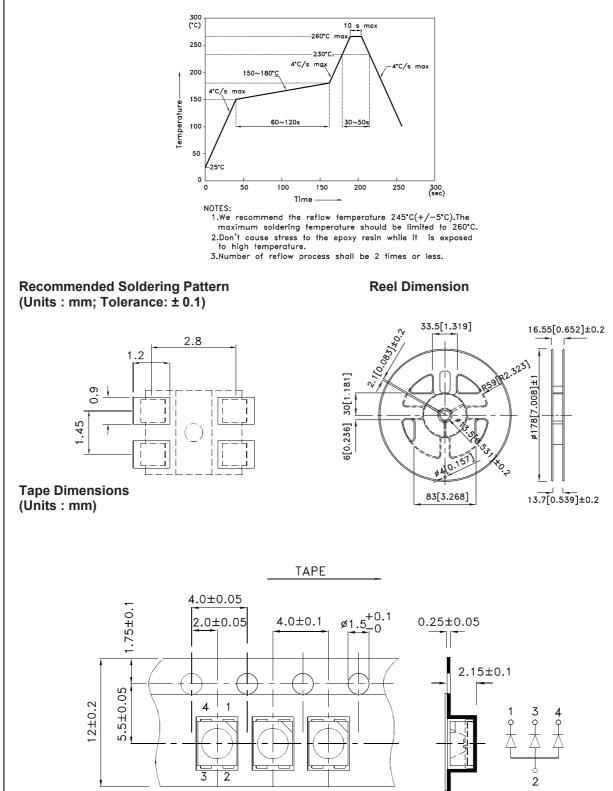
Super Bright Green



KAA-3528EMBSGC

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.



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