SUBMINIATURE SOLID STATE LAMP

Part Number: KM2520EH/1SGD

Super Bright Green

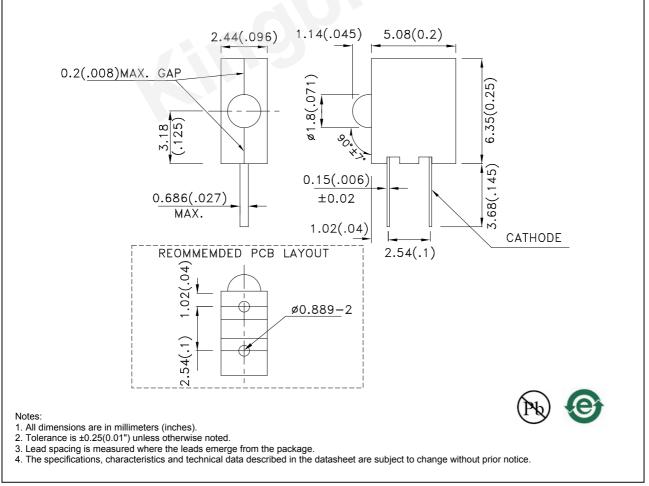
Features

- Black case enhances contrast.
- Vibration and shock resistant.
- Housing UL rating:94V-0.
- Housing material: type 66 nylon.
- RoHS compliant.

Description

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

Package Dimensions



SPEC NO: DSAA9310 APPROVED: WYNEC REV NO: V.13B CHECKED: Allen Liu DATE: AUG/22/2014 DRAWN: Y.Liu PAGE: 1 OF 5 ERP: 1102000016

Selection Guide

Selection Guide					
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KM2520EH/1SGD	Super Bright Green (GaP)	Green Diffused	5	12	40°

Notes:

1.01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

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	Super Bright Green	565		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Green	568		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Green	30		nm	I⊧=20mA
С	Capacitance	Super Bright Green	15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Green	2.2	2.5	V	I⊧=20mA
lr	Reverse Current	Super Bright Green		10	uA	VR = 5V

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

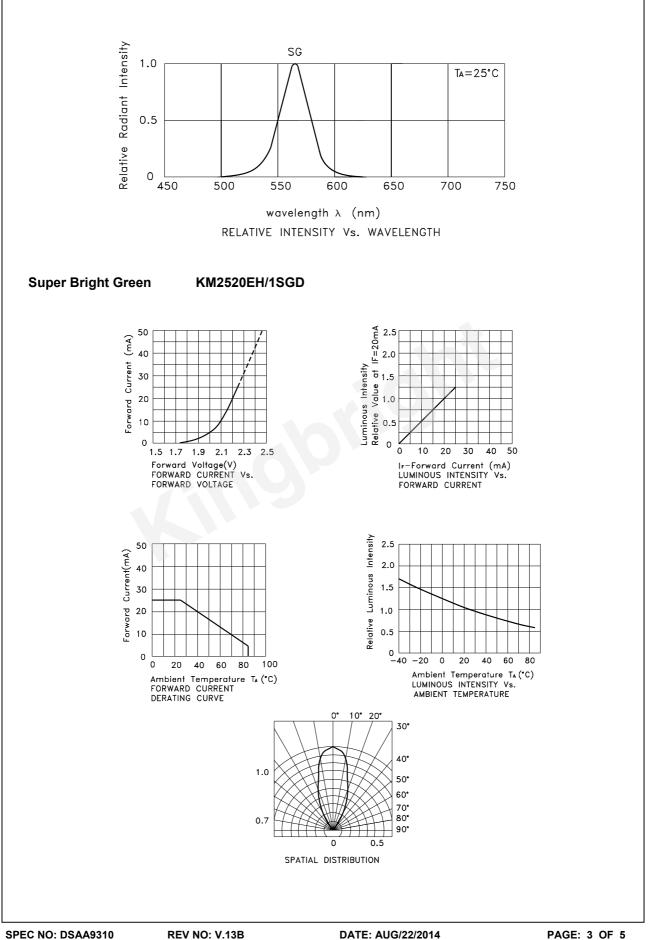
3.Wavelength value is traceable to the CIE127-2007 compliant national standards.

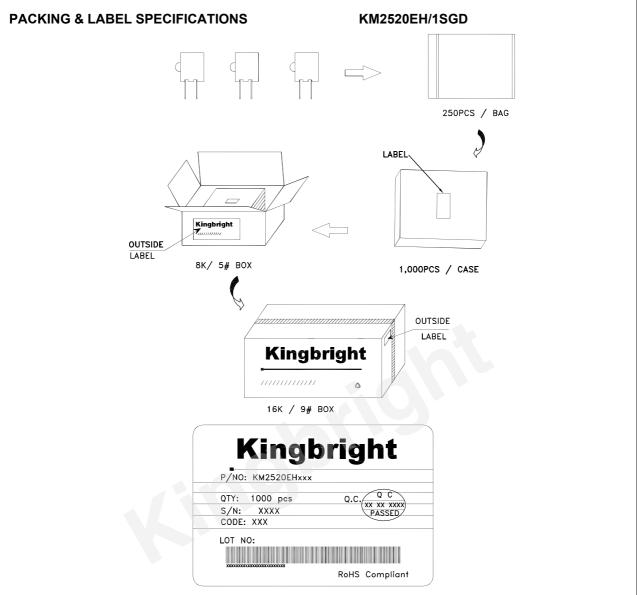
Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Green	Units		
Power dissipation	62.5	mW		
DC Forward Current	25	mA		
Peak Forward Current [1]	140	mA		
Reverse Voltage	5	V		
Operating/Storage Temperature	-40°C To +85°C			
Lead Solder Temperature [2]	260°C For 3 Seconds			
Lead Solder Temperature [3]	260°C For 5 Seconds			

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.





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PRECAUTIONS

1. The lead pitch of the LED must match the pitch of the mounting holes on the PCB during component placement. Lead-forming may be required to insure the lead pitch matches the hole pitch. Refer to the figure below for proper lead forming procedures.

