PRELIMINARY SPEC

### SUBMINIATURE SOLID STATE LAMP

Part Number: AM2520VGC/A03

Green



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

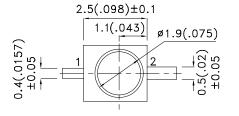
### **Features**

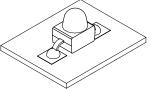
- SUBMINIA TURE PACKAGE.
- WIDE VIEWING ANGLE.
- GULL WING LEAD.
- LONG LIFE SOLID STATE RELIABILITY.
- LOW PACKAGE PROFILE.
- MOISTURE SENSITIVITY LEVEL : LEVEL 3.
- PACKAGE : 1000PCS / REEL.
- RoHS COMPLIANT.

### Description

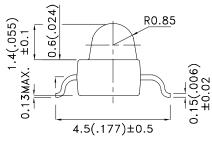
The Green source color devices are made with InGaN on G-SiC Light Emitting Diode. Static electricity and surge damage the LEDS. It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs. All devices, equipment and machinery must be electrically grounded.

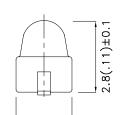
### **Package Dimensions**





-0 2





 $\rightarrow$ 

10

### $2(.079)\pm0.1$

#### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.
- 4. Specifications are subject to change without notice.
- 5. The device has a single mounting surface. The device must be mounted according to the specifications.

REV NO: V.1 **CHECKED: Allen Liu**  DATE: APR/26/2007 DRAWN: Y.L.LI



ERP: 1202001491

### Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
AM2520VGC/A03	Green (InGaN)	WATER CLEAR	380	800	20°

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
Luminous intensity/ luminous Flux: +/-15%.

### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	Green	520		nm	I⊧=20mA	
λD [1]	Dominant Wavelength	Green	525		nm	I⊧=20mA	
Δλ1/2	Spectral Line Half-width	Green	35		nm	I⊧=20mA	
С	Capacitance	Green	100		pF	VF=0V;f=1MHz	
VF [2]	Forward Voltage	Green	3.2	4	V	I⊧=20mA	
lr	Reverse Current	Green		10	uA	Vr=5V	

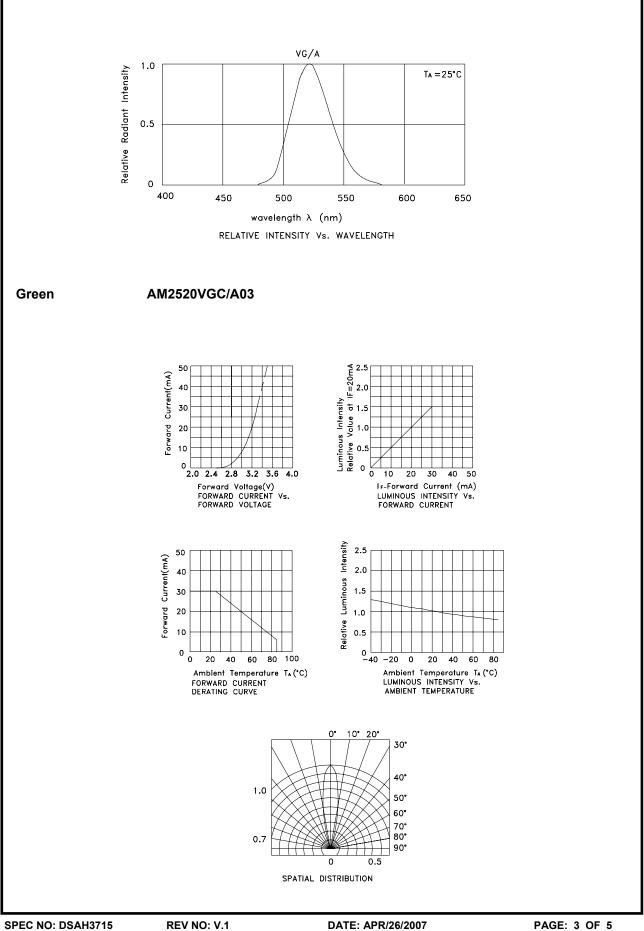
Notes:

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

### Absolute Maximum Ratings at TA=25°C

Parameter	Green	Units	
Power dissipation	120	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	100	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

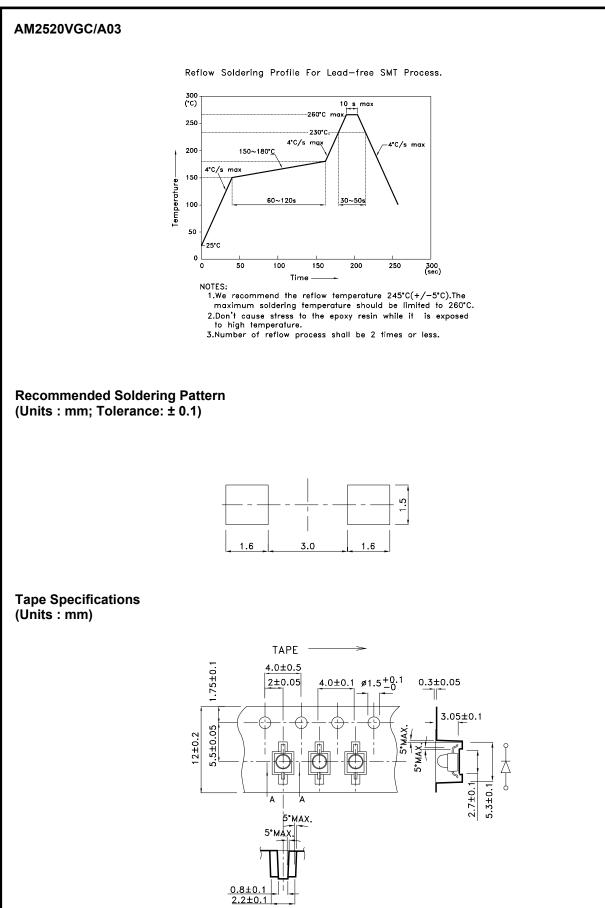
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.



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A-A SECTION

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