## 1.6X0.8mm SMD CHIP LED LAMP

Part Number: APT1608VGC/A

## PRELIMINARY SPEC



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

### Features

- 1.6mmX0.8mm SMT LED, 0.75mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE: 2000PCS / REEL .
- MOISTURE SENSITIVITY LEVEL : LEVEL 3.
- RoHS COMPLIANT.

### Description

The Green source color devices are made with InGaN on G-SiC Light Emitting Diode.

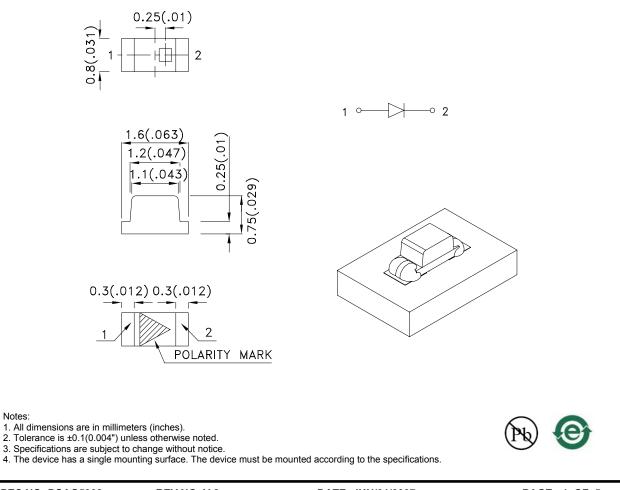
Green

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**



SPEC NO: DSAG5362 APPROVED: WYNEC REV NO: V.2 CHECKED: Allen Liu DATE: JUN/01/2007 DRAWN: Y.L.LI PAGE: 1 OF 5 ERP: 1203005730

#### **Selection Guide** lv (mcd) [2] Viewing @ 20mA Angle [1] Part No. Dice Lens Type 201/2 Min. Тур. APT1608VGC/A Green (InGaN) WATER CLEAR 50 180 120°

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:

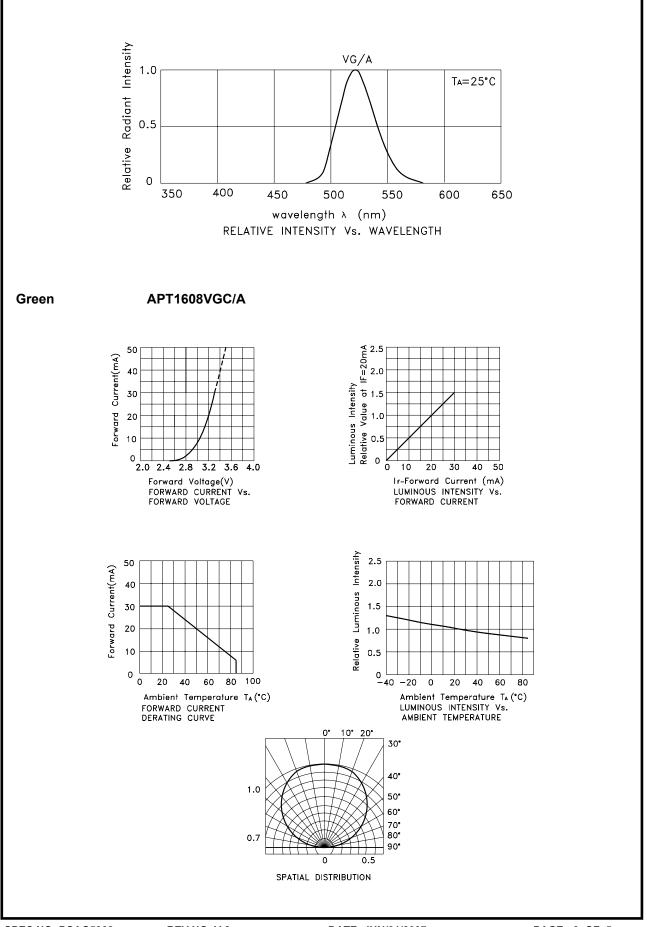
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

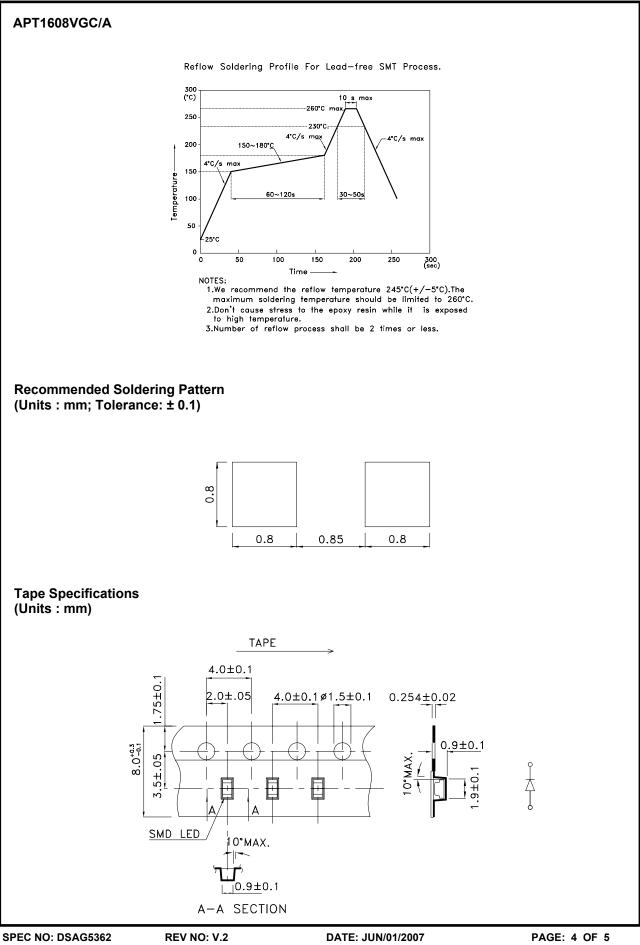
## Absolute Maximum Ratings at TA=25°C

| Parameter                | Green          |    |  |  |
|--------------------------|----------------|----|--|--|
| 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.





APPROVED: WYNEC

CHECKED: Allen Liu

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