

### SUPER FLUX LED LAMP

PRELIMINARY SPEC

Part Number: WP7677C2VGC/Z



### Features:

- \* High Luminance output.
- \* Design for High Current Operation.
- \* Uniform Color.
- \* Low Power Consumption.
- \* Low Thermal Resistance.
- \* Low Profile.
- \* Packaged in tubes for use with automatic insertion equiment.
- \* RoHs Compliant.

### **Technical Data**



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

### Description

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.

### Benefits:

- \*Outstanding Material Efficiency.
- \*Electricity savings.
- \*Maintenance savings.
- \*Reliable and Rugged.

### **Typical Applications:**

- \*Automotive Exterior Lighting.
- \*Electronic Signs and Signals.
- \*Specialty Lighting.

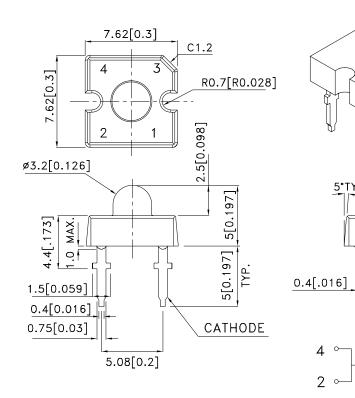




 SPEC NO: DSAH1139
 REV NO: V.3
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 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: Y.L.LI
 ERP: 1101020171

## **Outline Drawings**



#### Notes:

- All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25(0.01") unless otherwise noted.
- Lead spacing is measured where the leads emerge from the package.
- 4. Specifications are subject to change without notice.

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

| PARAMETER                  | VG/Z                | UNITS |
|----------------------------|---------------------|-------|
| DC Forward Current         | 50                  | mA    |
| Power dissipation          | 210                 | mW    |
| Reverse Voltage            | 5                   | V     |
| Operating Temperature      | -40 To +85          | °C    |
| Storage Temperature        | -55 To +85          | °C    |
| Lead Solder Temperature[1] | 260°C For 5 Seconds |       |

1.1.5mm[0.06inch]below seating plane.

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### **Selection Guide**

| Part No.      | LED COLOR     | lv(cd<br>@50<br>Min. |    | Viewing Angle[2]<br>2θ1/2<br>Τyp. |
|---------------|---------------|----------------------|----|-----------------------------------|
| WP7677C2VGC/Z | Green (InGaN) | 10                   | 25 | 30°                               |

#### Notes:

## Optical Characteristics at TA=25°C I<sub>F</sub>=50mA Rθj-a=200°C/W

| DEVICE<br>TYPE | PEAK<br>WAVELENGTH<br>λΡΕΑΚ (nm)<br>TYP. | DOMINANT[1]<br>WAVELENGTH<br>λDOM (nm)<br>TYP. | SPECTRAL LINE WAVELENGTH Δλ1/2(nm) TYP. |
|----------------|--|--|---|
| VG/Z           | 525                                      | 535  | 39                                      |

#### Note:

### **Electrical Characteristics at TA=25°C**

| DEVICE<br>TYPE | FORWARD VOLTAGE [1]<br>VF (VOLTS)<br>@<br>IF=50mA |      | REVERSE CURRENT<br>IR (uA)<br>@<br>VR=5V | CAPACITANCE<br>C (pF)<br>@<br>VF=0V F=1MHZ | THERMAL<br>RESISTANCE<br>Rθj -pin<br>°C/W |
|----------------|---|------|--|--|---|
|                | TYP.  | MAX. | MAX.                                     | TYP.                                       | TYP.                                      |
| VG/Z           | 3.5   | 4.2  | 10                                       | 65   | 130                                       |

#### Note:

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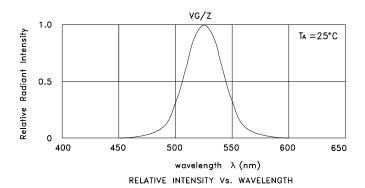
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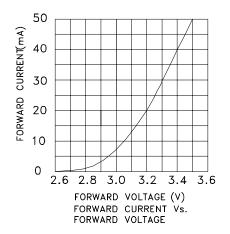
<sup>1.</sup>Luminous intensity is measured with an integrating sphere after the device has stabilized; Luminous Intensity / luminous flux: +/-15%. 2.61/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

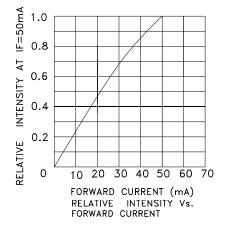
<sup>1.</sup> The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the device; Wavelength: +/-1nm.

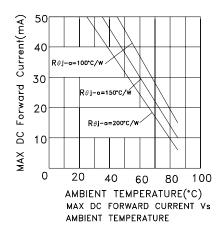
<sup>1.</sup> Forward Voltage: +/-0.1V.

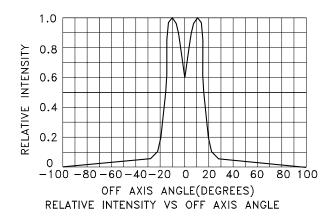
### **Figures**





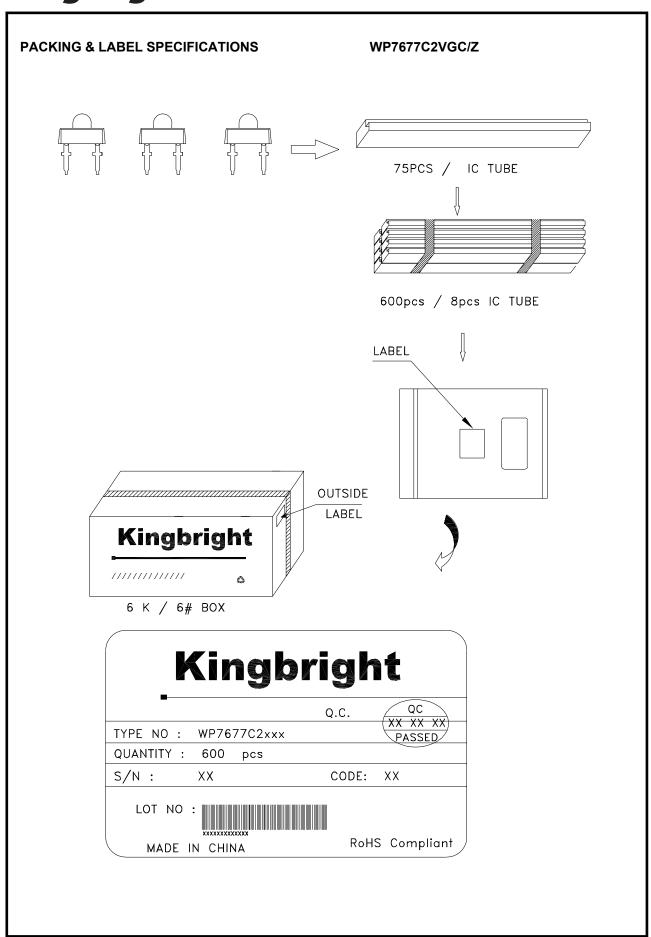






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