

PRELIMINARY SPEC

Part Number: WP7701C4VGC/Z



Features:

- *HIGH LUMINANCE OUTPUT
- *DESIGN FOR HIGH CURRENT OPERATION.
- *SOLDERLESS MOUNTING TECHNIQUE.
- *LOW POWER CONSUMPTION.
- *LOW THERMAL RESISTANCE.
- *LOW PROFILE.
- *PACKAGED IN TUBES FOR USE WITH AUTOMATIC INSERTION EQUIPMENT.
- *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:

- *Rugged Lighting Products.
- *Electricity savings.
- *Maintenance savings.
- *Environmental Conformance.

Typical Applications:

- *Automotive Exterior Lighting.
- *Solid State Lighting and Signaling.





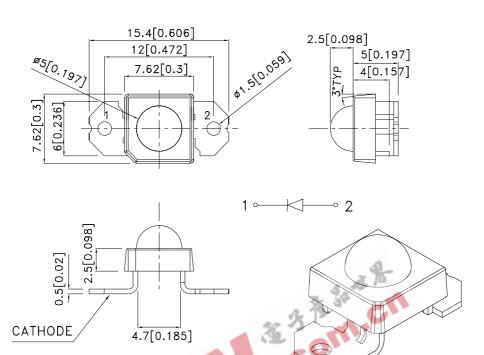
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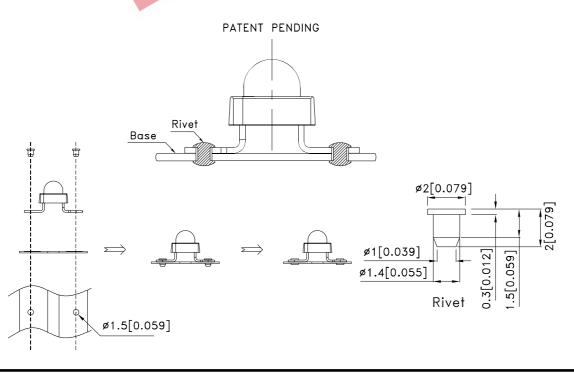
SPEC NO: DSAH3836 REV NO: V.1 DATE: APR/29/2007

APPROVED: WYNEC CHECKED: Allen Liu DRAWN: Y.L.LI

Outline Drawings



- 1. All dimensions are in millimeters (inches).
 2. Tolerance is ±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.



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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

Selection Guide

Part No.	LED COLOR	lv(cd)[1] @50mA Min. Typ.	Viewing Angle[2] 201/2 Typ.
WP7701C4VGC/Z	Green (InGaN)	5.7 9.5	50°

Optical Characteristics at TA=25°C I_F=50mA Rθj-a=200°C/W

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

Note:

Electrical Characteristics at TA=25°C

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

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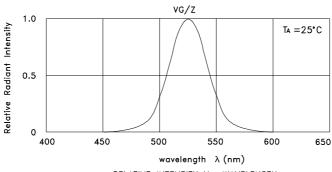
^{....}nous Intensity / I ∞enterline value. 1.Luminous intensity is measured with an integrating sphere after the device has stabilized; Luminous intensity / luminous flux: +/-15%.

^{2.01/2} is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

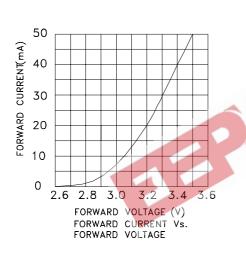
^{1.} The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the device; Wavelength: +/-1nm.

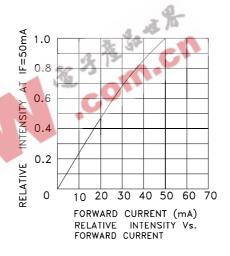
^{1.} Forward Voltage: +/-0.1V.

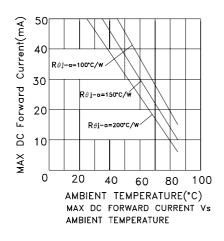
Figures

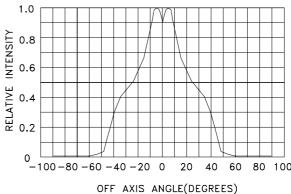


RELATIVE INTENSITY Vs. WAVELENGTH





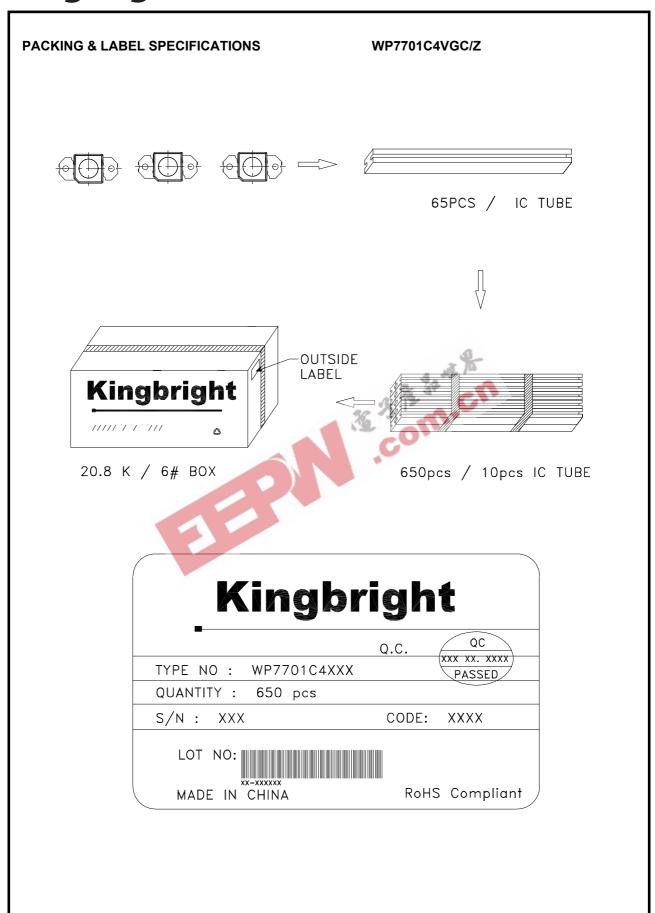




RELATIVE INTENSITY VS OFF AXIS ANGLE

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