

PRELIMINARY SPEC

Part Number: WP7679C1VGC/Z



# **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.

#### 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 equipment.
- \*RoHS Compliant.

#### Benefits:

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

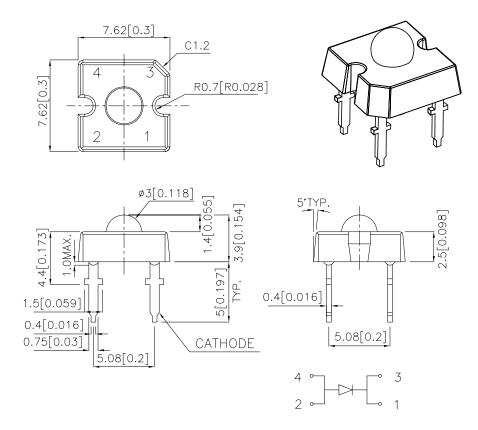
### **Typical Applications:**

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

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 DRAWN: W.J.ZHU
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# **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.

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

PARAMETER	VG/Z	UNITS	
DC Forward Current	30	mA	
Power dissipation	120	mW	
Reverse Voltage	5	V	
Operating Temperature	-40 To +85	°C	
Storage Temperature	-55 To +85	°C	
Lead Solder Temperature <sup>[1]</sup>	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) <sup>[1]</sup> @30mA		Viewing Angle <sup>[2]</sup> 2 <del>0</del> 1/2
		Min.	Тур.	Тур.
WP7679C1VGC/Z	GREEN (InGaN)	3.8	8.0	70°

# Optical Characteristics at TA=25°C IF=30mA Rθj-a=200°C/W

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

#### Note:

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

DEVICE TYPE	FORWARD VF(VOI @ IF=30	LTS) <sup>[1]</sup>	REVERSE CURRENT IR (uA) @ VR=5V	CAPACITANCE C (pF) @ V <sub>F</sub> =0V F=1MHZ	THERMAL RESISTANCE Rθj-pin °C/W
	TYP.	MAX.	MAX.	TYP.	TYP.
VG/Z	3.3	4.0	10	65	130

### Note:

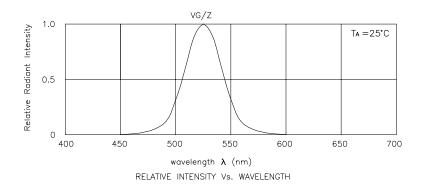
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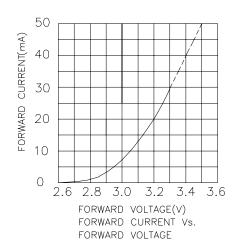
<sup>1.</sup>Luminous intensity is measured with an integrating sphere after the device has stabilized; Luminous Intensity / luminous flux: +/-15%. 2.61/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

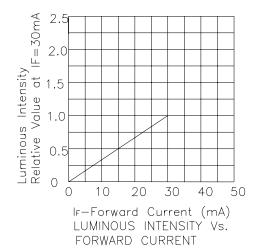
<sup>1.</sup>The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the device; Wavelength: +/-1nm.

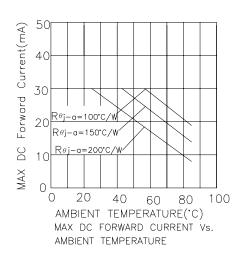
<sup>1.</sup> Forward Voltage: +/-0.1V.

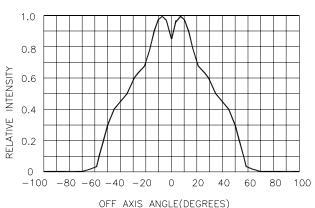
## **Figures**







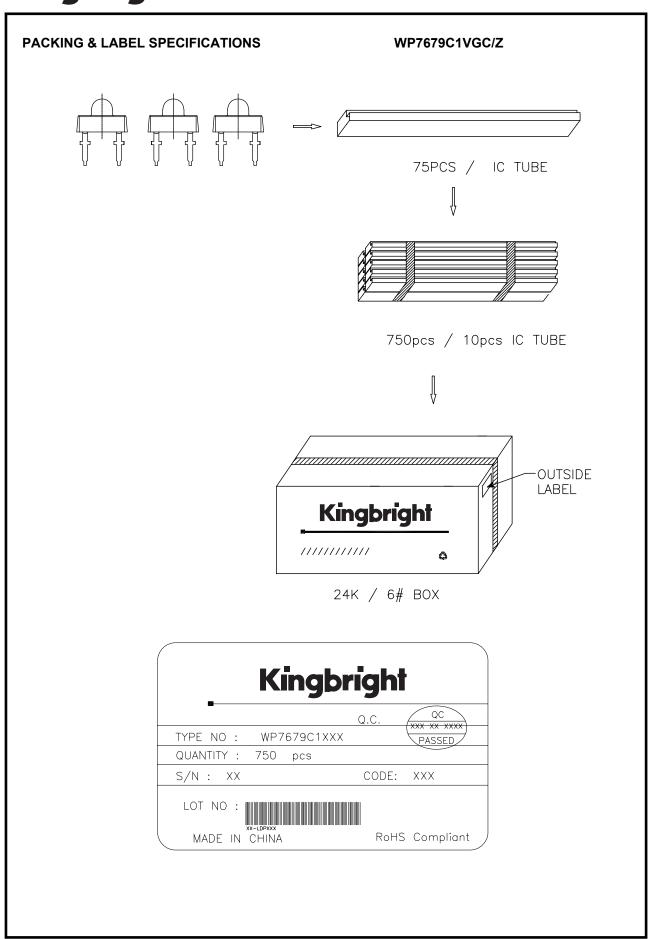




OFF AXIS ANGLE(DEGREES)
RELATIVE INTENSITY VS OFF AXIS ANGLE

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