

PRELIMINARY SPEC

Part Number: WP7679C1VGC/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 equipment.
- * Soldering methods: Wave soldering.
- * 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:

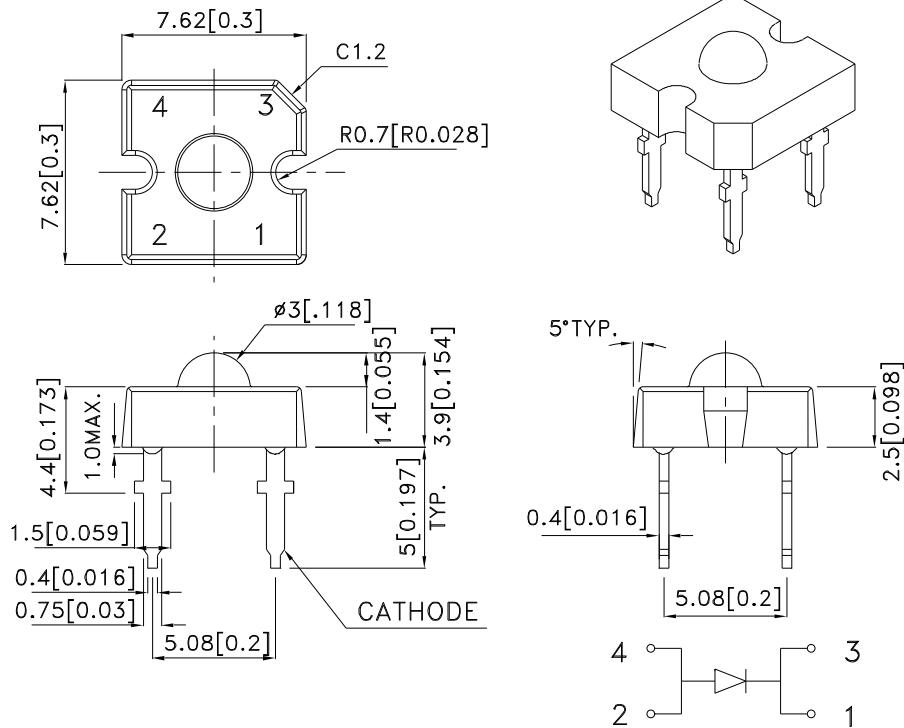
- *Outstanding Material Efficiency.
- *Electricity savings.
- *Maintenance savings.
- *Reliable and Rugged.

Typical Applications:

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



Outline Drawings



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.

Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

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

1. 1.5mm[0.06inch]below seating plane.
NO Reflow soldering .

Selection Guide

| Part No. | LED COLOR | Iv(cd)[1] @50mA | | Φv(lm)[1] @50mA | Viewing Angle[2] 2θ1/2 |
|---------------|---------------|--------------------|------|--------------------|---------------------------|
| | | Min. | Typ. | Typ. | Typ. |
| WP7679C1VGC/Z | Green (InGaN) | 5.7 | 10 | 8.2 | 70° |

Notes:

1.Luminous intensity is measured with an integrating sphere after the device has stabilized; Luminous Intensity / luminous flux: +/-15%.
 2.θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

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

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

Note:

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

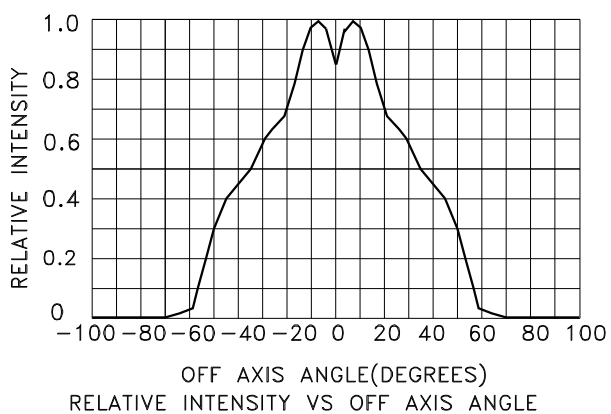
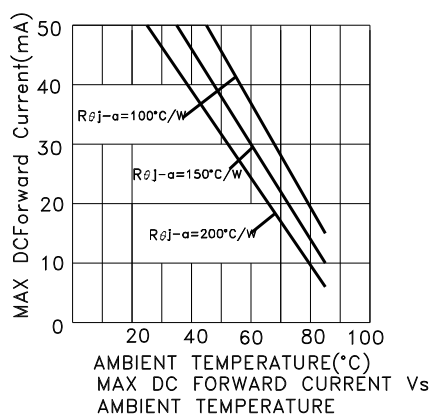
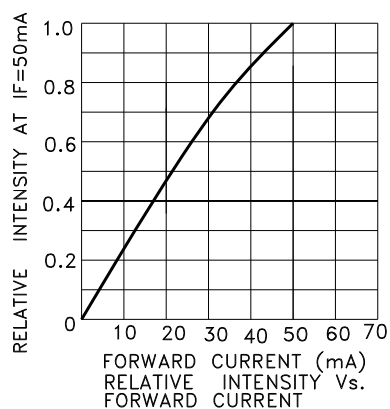
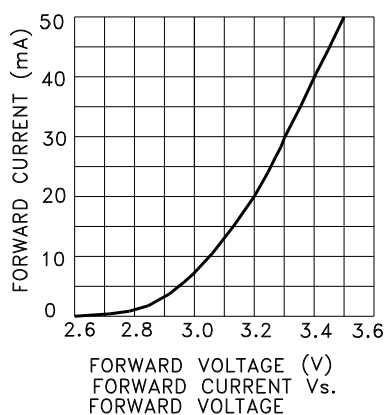
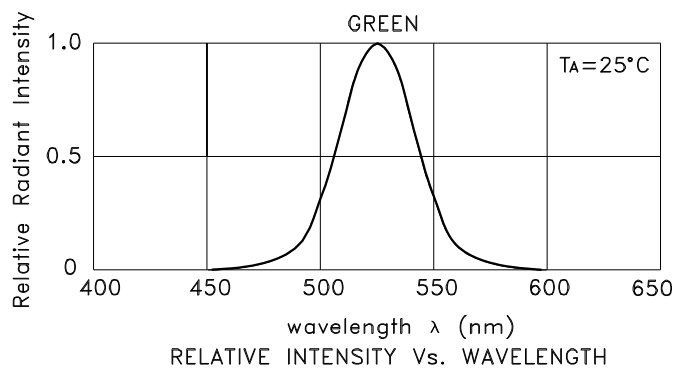
Electrical Characteristics at TA=25°C

| 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 |

Note:

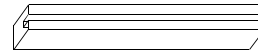
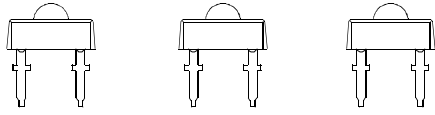
1. Forward Voltage: +/-0.1V.

Figures

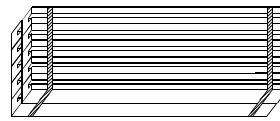


PACKING & LABEL SPECIFICATIONS

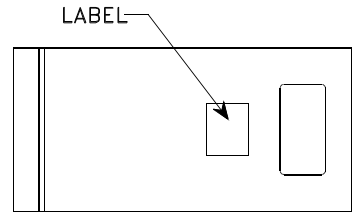
WP7679C1VGC/Z



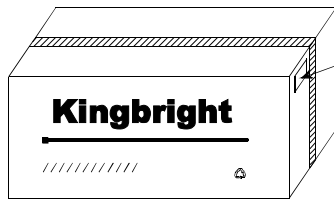
75PCS / IC TUBE(520x8.3x15mm)



750pcs / 10pcs IC TUBE




10pcs IC TUBE / BAG



OUTSIDE LABEL



7.5K / 6# BOX

| | |
|--|--|
| <h1>Kingbright</h1> | |
| P/NO: WP7679C1xxx | |
| QTY: 750 pcs | Q.C. Q C XX XX XXXX PASSED |
| S/N: XXXX | |
| CODE: XXX | |
| LOT NO: | |
|  XXXXXXXXXXXX | |
| RoHS Compliant | |