

PRELIMINARY SPEC

Part Number: WP7678C2ZGC



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.
- * Soldering methods: Wave soldering .
- * RoHS Compliant.

Benefits:

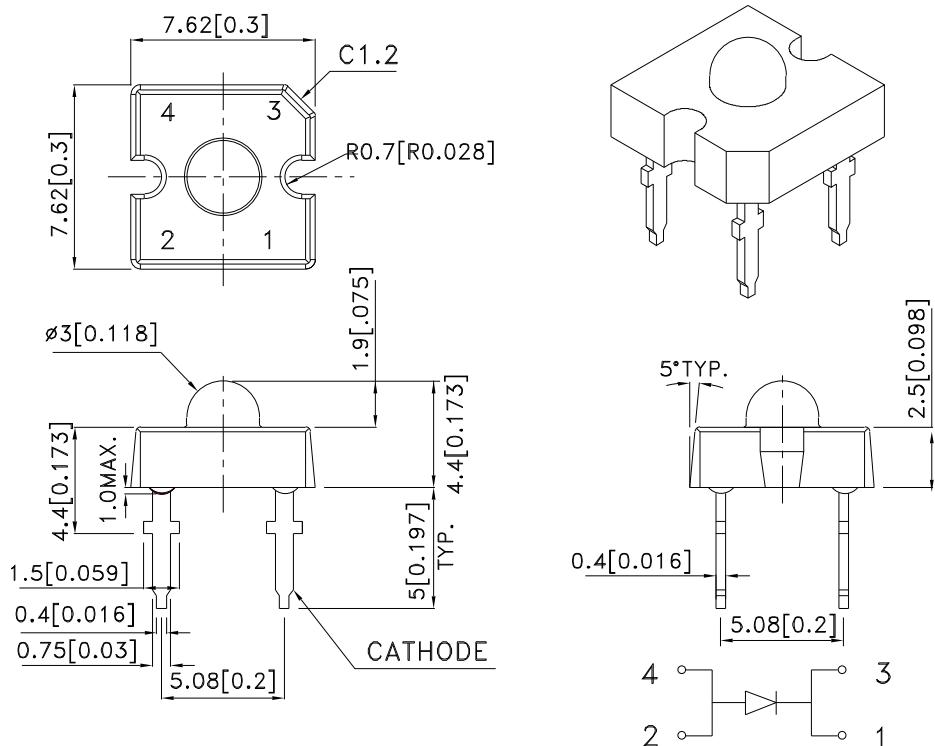
- *Outstanding Material Efficiency.
- *Electricity savings.
- *Maintenance savings.
- *Reliable and Rugged.

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 TA=25°C

PARAMETER	ZG	UNITS
DC Forward Current	30	mA
Power dissipation	135	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.
NO Reflow soldering .

Selection Guide

Part No.	LED COLOR	lv(cd)[1] @30mA Min.	lv(cd)[1] @30mA Typ.	Φv(lm)[1] @30mA Typ.	Viewing Angle[2] 201/2 Typ.
WP7678C2ZGC	Green (InGaN)	3.8	6.5	2.5	40°

Notes:

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.

Optical Characteristics at TA=25°C I_f=30mA R_{θj-a}=200°C/W

DEVICE TYPE	PEAK WAVELENGTH λ _{PEAK} (nm) TYP.	DOMINANT[1] WAVELENGTH λ _{DOM} (nm) TYP.	SPECTRAL LINE WAVELENGTH Δλ _{1/2} (nm) TYP.
ZG	515	525	30

Note:

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

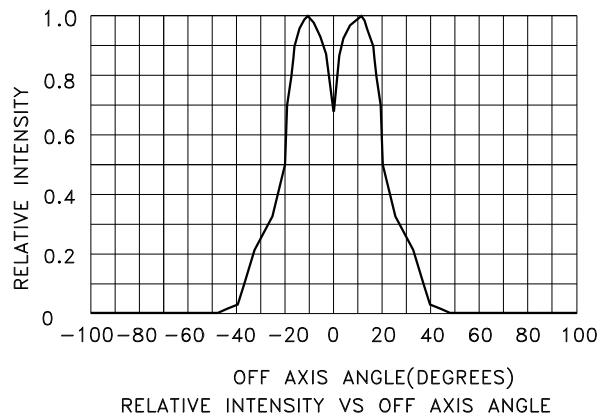
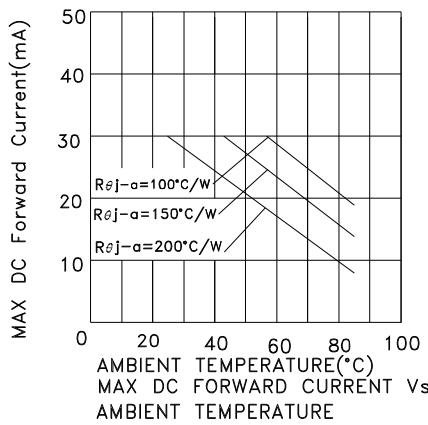
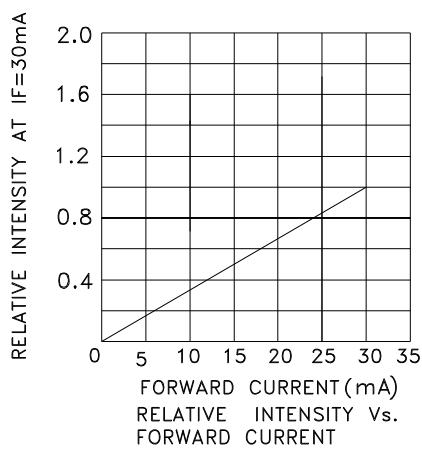
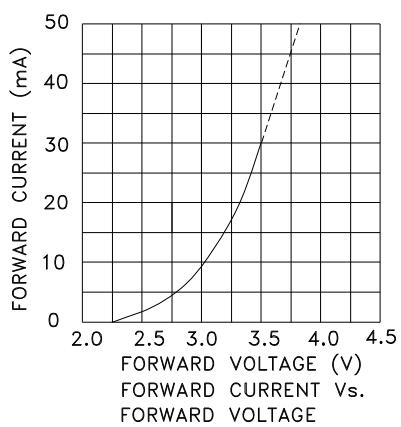
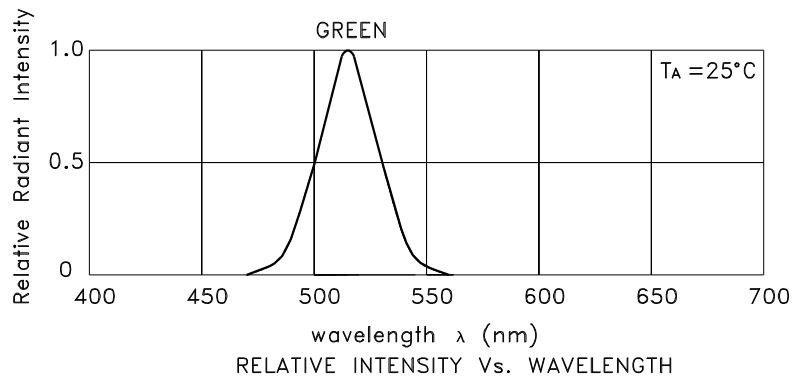
Electrical Characteristics at TA=25°C

DEVICE TYPE	FORWARD VOLTAGE [1] V _f (VOLTS) @ I _f =30mA TYP.		REVERSE CURRENT I _r (uA) @ V _r =5V MAX.	CAPACITANCE C (pF) @ V _f =0V F=1MHZ TYP.	THERMAL RESISTANCE R _{θj -pin} °C/W TYP.
ZG	3.5	4.5	10	45	150

Note:

1. Forward Voltage: +/-0.1V.

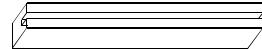
Figures



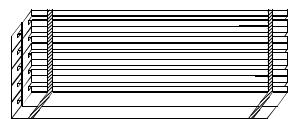
Kingbright

PACKING & LABEL SPECIFICATIONS

WP7678C2ZGC



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

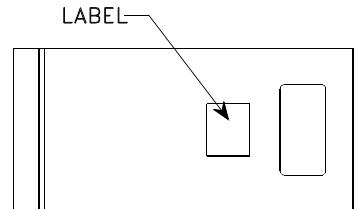


750pcs / 10pcs IC TUBE



OUTSIDE
LABEL

7.5K / 6# BOX



10pcs IC TUBE / Bag

Kingbright

P/NO: WP7678C2XXX

QTY: 750 pcs

Q.C.

QC
XX XX XXXX
PASSED

S/N: XXXX

CODE: XXX

LOT NO:



XXXXXXXXXXXXXXXXXXXX

RoHS Compliant