

PRELIMINARY SPEC

Part Number: WP7678C2ZGC/G



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:

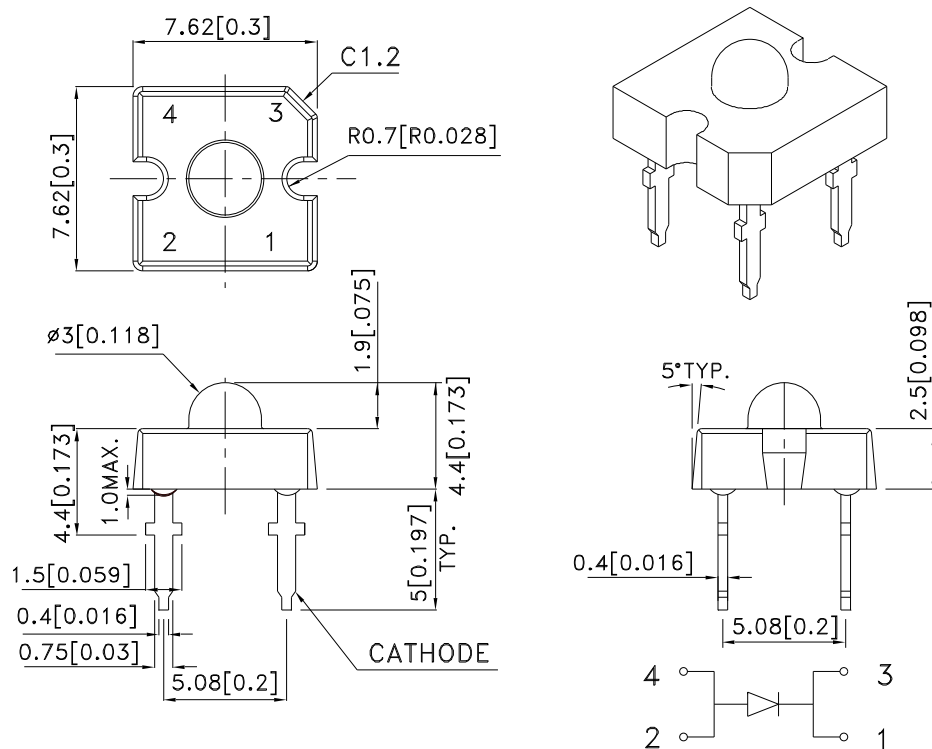
- *Outstanding Material Efficiency.
- *Electricity savings.
- *Maintenance savings.
- *Reliable and Rugged.

Typical Applications:

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



Outline Drawings



Absolute Maximum Ratings at TA=25°C

PARAMETER	ZG/G	UNITS
DC Forward Current	30	mA
Power dissipation	123	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	Iv(cd)[1] @30mA		$\Phi_v(lm)^{[1]}$ @30mA Typ.	Viewing Angle ^[2] 2 $\theta_{1/2}$
		Min.	Typ.		
WP7678C2ZGC/G	Green (InGaN)	5.7	9	7.1	40°

Notes:

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

Optical Characteristics at TA=25°C If=30mA R θ_j -a=200°C/W

DEVICE TYPE	PEAK WAVELENGTH λ_{PEAK} (nm) TYP.	DOMINANT[1] WAVELENGTH λ_{DOM} (nm) TYP.	SPECTRAL LINE WAVELENGTH $\Delta\lambda_{1/2}(nm)$ TYP.
ZG/G	520	525	35

Note:

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

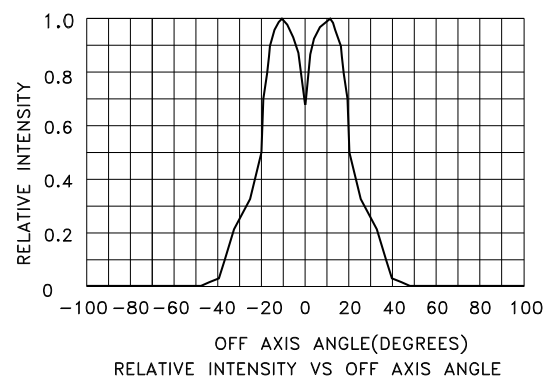
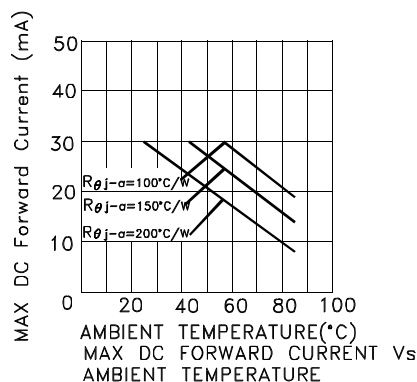
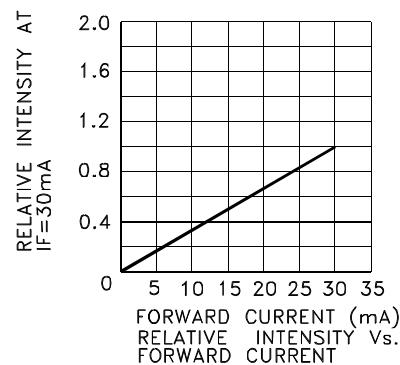
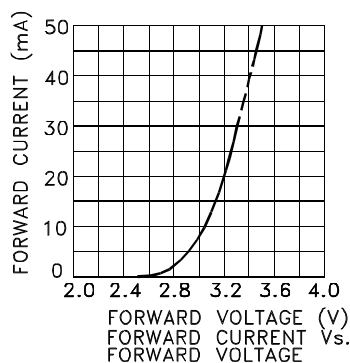
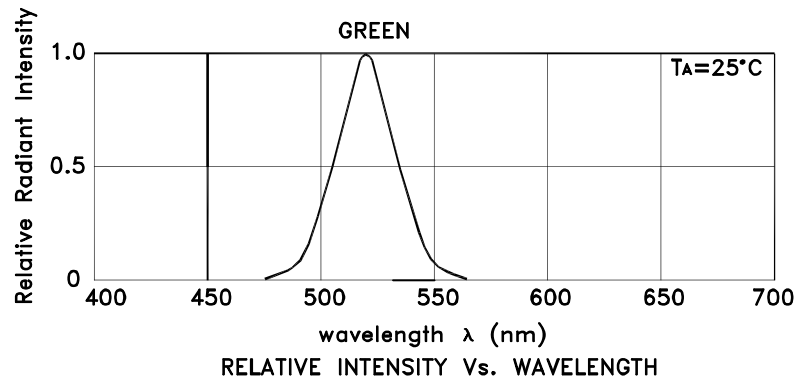
Electrical Characteristics at TA=25°C

DEVICE TYPE	FORWARD VOLTAGE [1] V _F (VOLTS) @ I _F =30mA		REVERSE CURRENT I _R (uA) @ V _R =5V	CAPACITANCE C (pF) @ V _F =0V F=1MHZ	THERMAL RESISTANCE R θ_j -pin °C/W
	TYP.	MAX.	MAX.	TYP.	TYP.
ZG/G	3.3	4.1	10	100	150

Note:

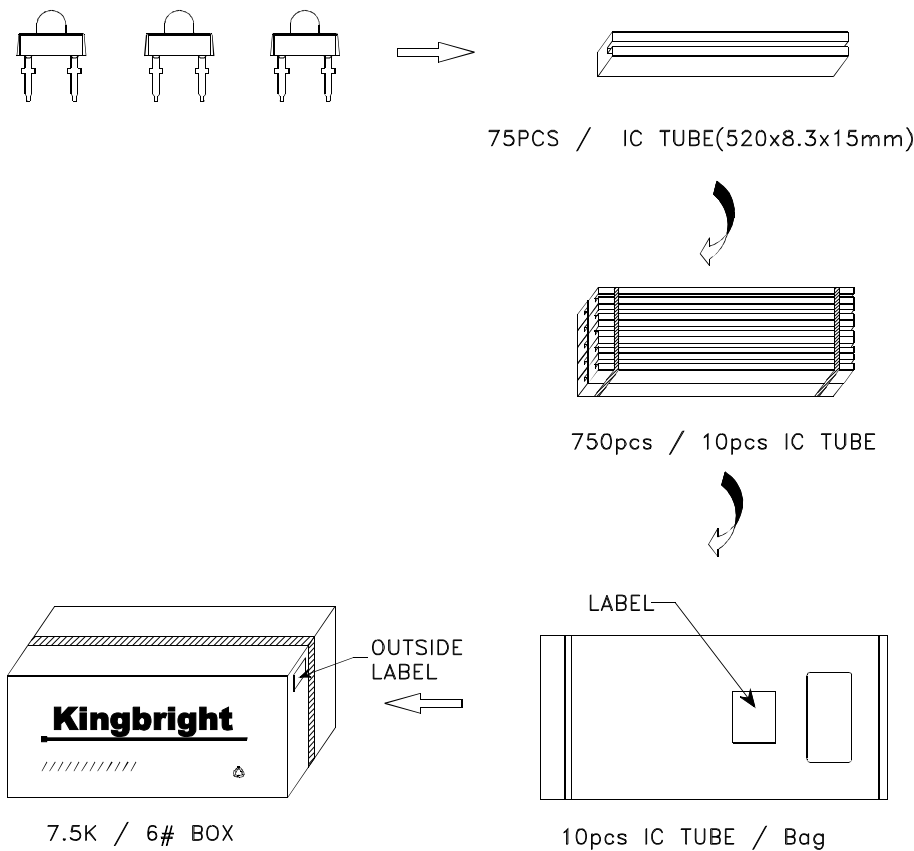
1. Forward Voltage: +/-0.1V.

Figures



PACKING & LABEL SPECIFICATIONS

WP7678C2ZGC/G



Kingbright	
P/NO: WP7678C2XXX	
QTY: 750 pcs	Q.C. Q C XX XX XXXX PASSED
S/N: XXXX	
CODE: XXX	
LOT NO:	
 xxxxxxxxxxxxxxxxxxxxxxxxxxxx	
RoHS Compliant	