

PRELIMINARY SPEC

Part Number: WP7678C2SEC/J

## Technical Data



### 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:

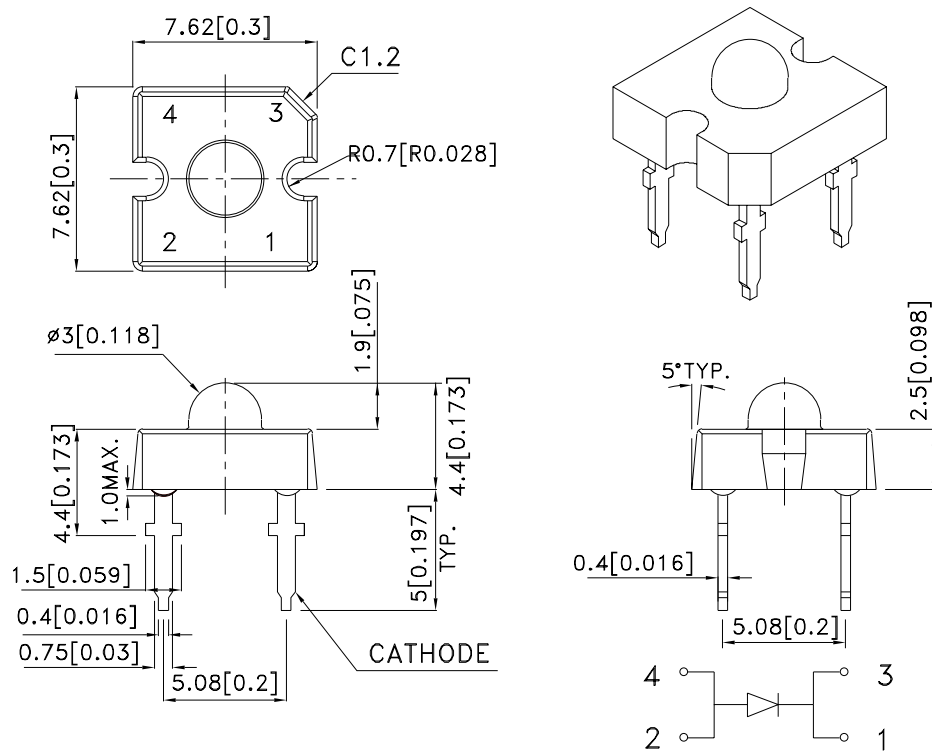
- \*Outstanding Material Efficiency.
- \*Electricity savings.
- \*Maintenance savings.
- \*Reliable and Rugged.

### Typical Applications:

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



## 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	SE/J	UNITS
DC Forward Current	70	mA
Power dissipation	217	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.

## Selection Guide

Part No.	LED COLOR	Iv(cd)[1] @70mA		Viewing Angle[2] 2θ1/2 Typ.
		Min.	Typ.	
WP7678C2SEC/J	Hyper Orange (AlGaInP)	8	20	40°

### 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=70mA 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.
SE/J	640	630	25

### Note:

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

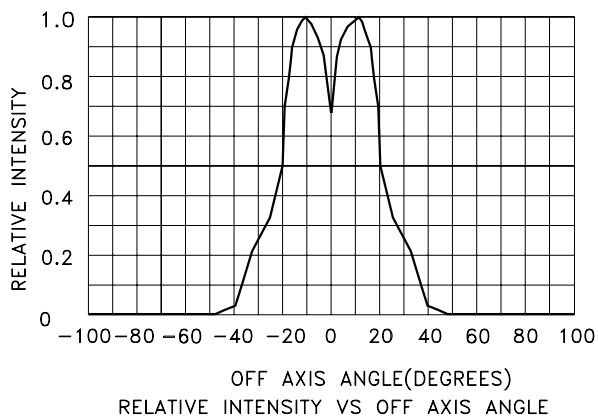
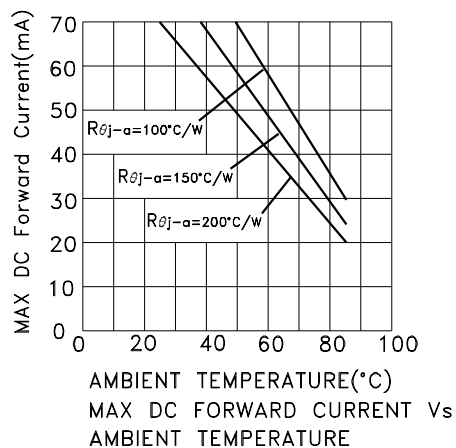
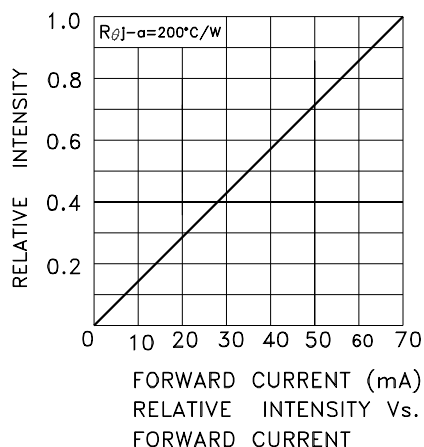
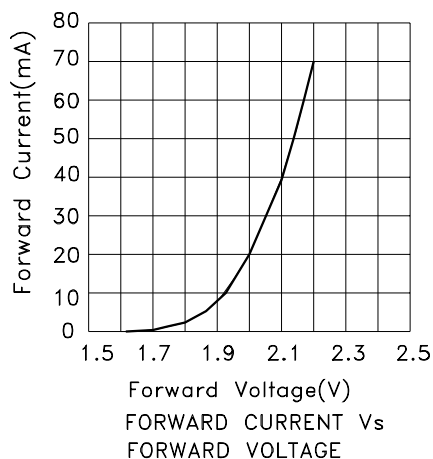
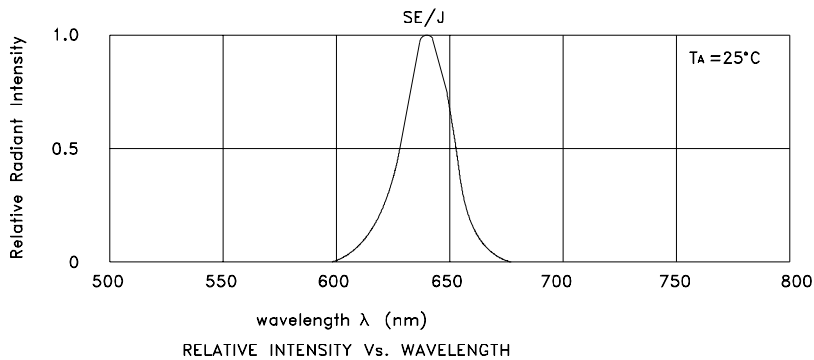
## Electrical Characteristics at TA=25°C

DEVICE TYPE	FORWARD VOLTAGE [1] VF (VOLTS) @ If=70mA			REVERSE CURRENT IR (uA) @ VR=5V	CAPACITANCE C (pF) @ VF=0V F=1MHZ	THERMAL RESISTANCE Rθj -pin °C/W
	MIN.	TYP.	MAX.	MAX.	TYP.	TYP.
SE/J	1.9	2.2	3.1	10	27	125

### Note:

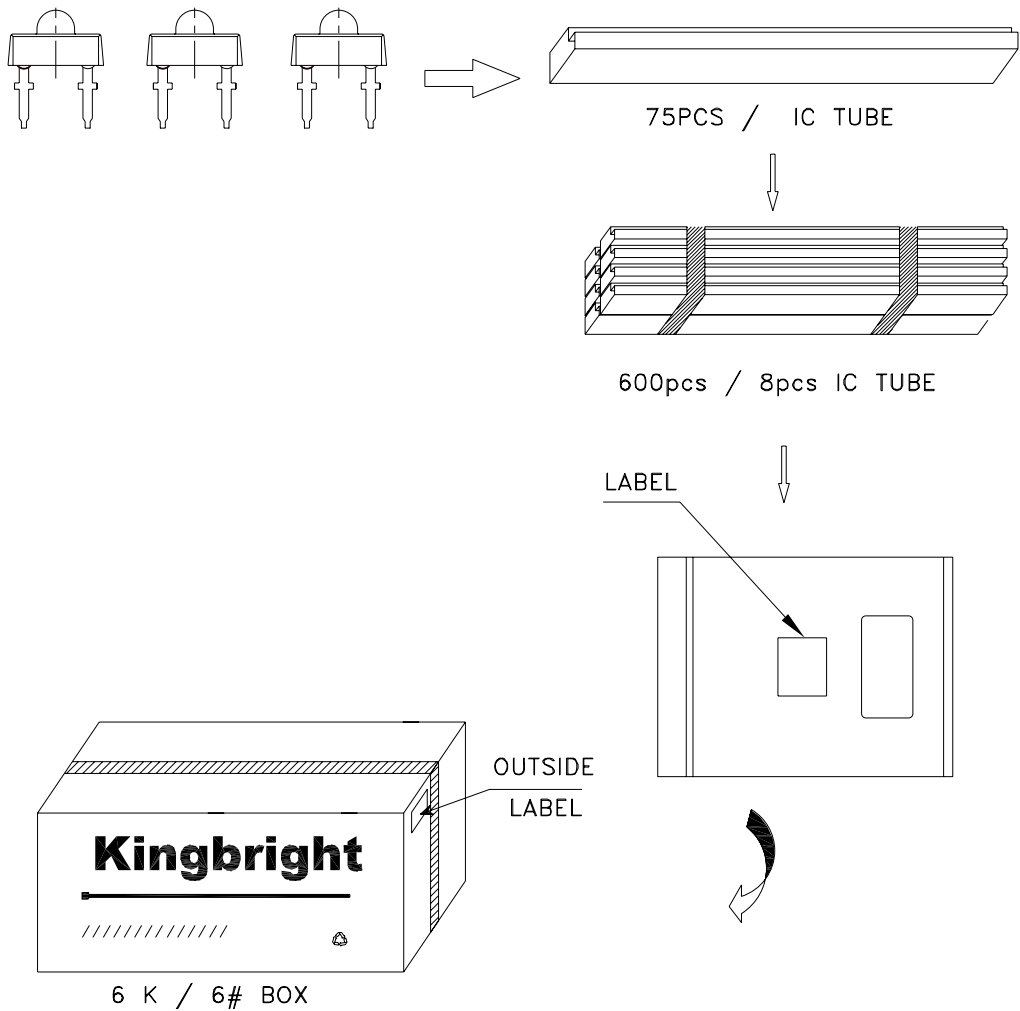
1. Forward Voltage: +/-0.1V.

## Figures



PACKING & LABEL SPECIFICATIONS

WP7678C2SEC/J



<b>Kingbright</b>	
Q.C.	
TYPE NO : WP7678C2xxx	QC XX XX XX PASSED
QUANTITY : 600 pcs	
S/N : XX	CODE: XX
LOT NO :  xxxxxxxxxxxx	
MADE IN CHINA	RoHS Compliant