PRELIMINARY SPEC

Part Number: WP7677C2SEC/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 equiment.
* RoHs Compliant.

Benefits:

*Outstanding Material Efficiency.

*Electricity savings.

*Maintenance savings.

*Reliable and Rugged.

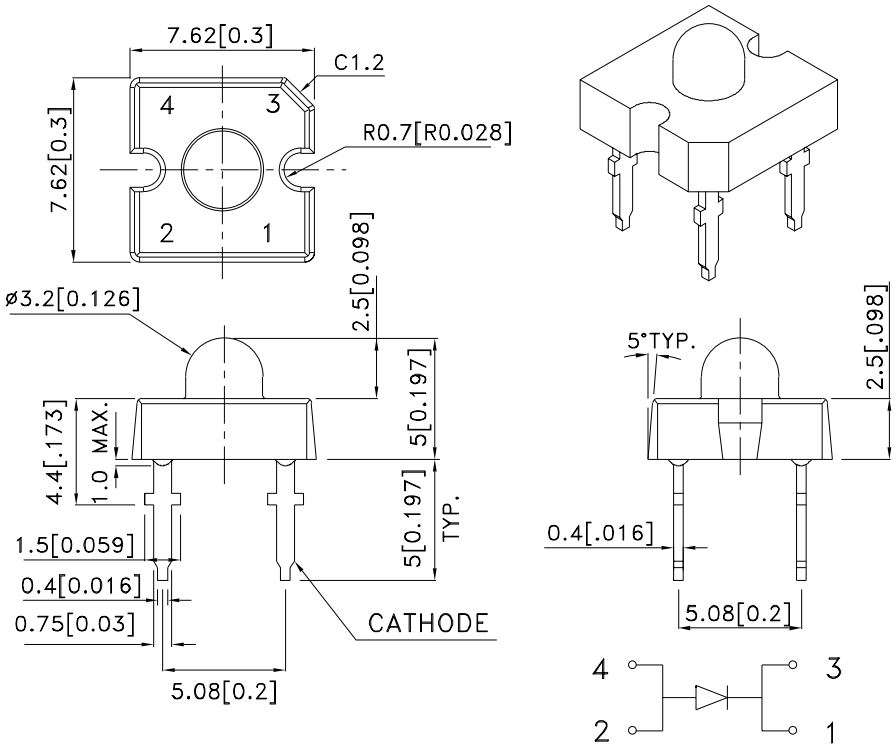
Typical Applications:

*Automotive Exterior Lighting.

*Electronic Signs and Signals.

*Specialty Lighting.

Outline Drawings



Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±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	SE/J	UNITS
DC Forward Current	70	mA
Power dissipation	217	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.

Selection Guide

Part No.	LED COLOR	Iv(cd)[1] @70mA Min.	Iv(cd)[1] @70mA Typ.	Viewing Angle[2] 2θ1/2 Typ.
WP7677C2SEC/J	Hyper Orange (AlGaInP)	12	35	30°

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
I_F=70mA R θj-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

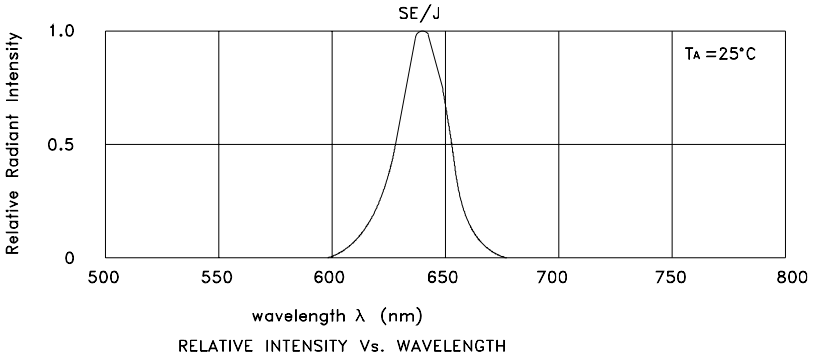
Note:
1.The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the device; Wavelength: +/-1nm.

Electrical Characteristics at TA=25°C

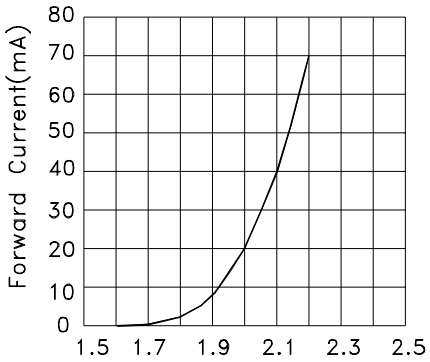
DEVICE TYPE	FORWARD VOLTAGE [1] V_F (VOLTS) @ I_F=70mA MIN.	FORWARD VOLTAGE [1] V_F (VOLTS) @ I_F=70mA TYP.	FORWARD VOLTAGE [1] V_F (VOLTS) @ I_F=70mA MAX.	REVERSE CURRENT I_R (uA) @ V_R=5V MAX.	CAPACITANCE C (pF) @ V_F=0V F=1MHZ TYP.	THERMAL RESISTANCE Rθj -pin °C/W TYP.
SE/J	1.9	2.2	3.1	10	27	125

Note:
1. Forward Voltage: +/-0.1V.

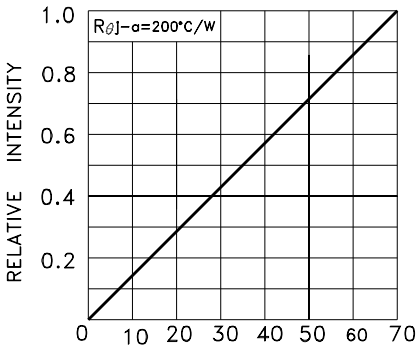
Figures



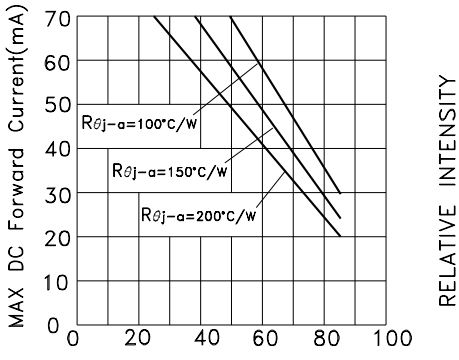
RELATIVE INTENSITY Vs. WAVELENGTH



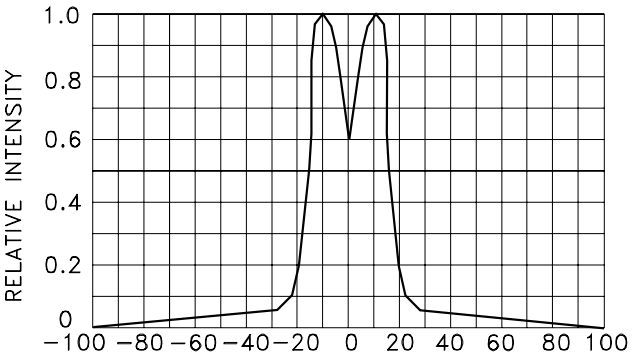
FORWARD CURRENT Vs
FORWARD VOLTAGE



RELATIVE INTENSITY Vs.
FORWARD CURRENT

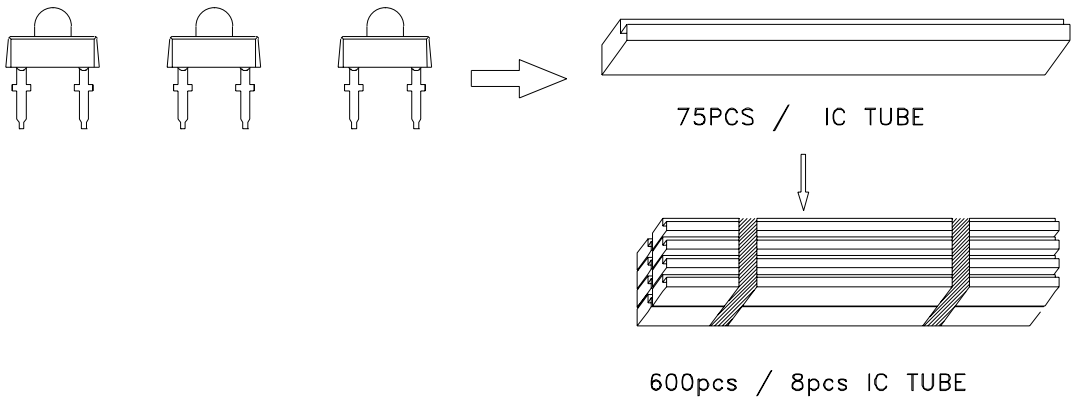


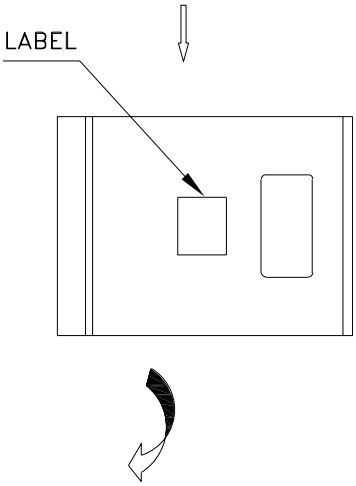
MAX DC FORWARD CURRENT Vs
AMBIENT TEMPERATURE

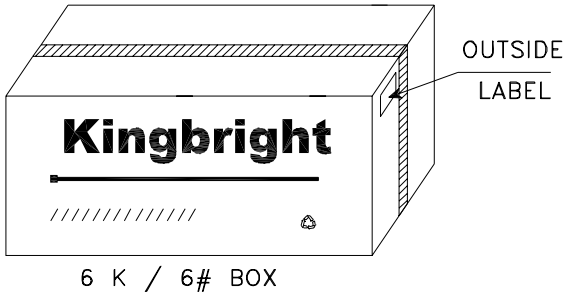


RELATIVE INTENSITY VS OFF AXIS ANGLE

PACKING & LABEL SPECIFICATIONS **WP7677C2SEC/J**







6 K / 6# BOX