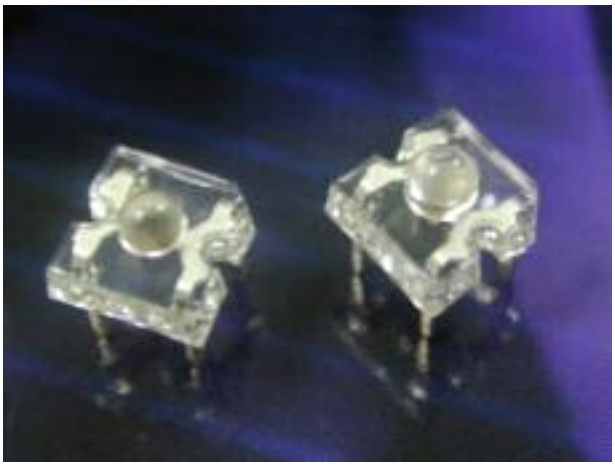
PRELIMINARY SPEC

WP7679C1SURC/G



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.

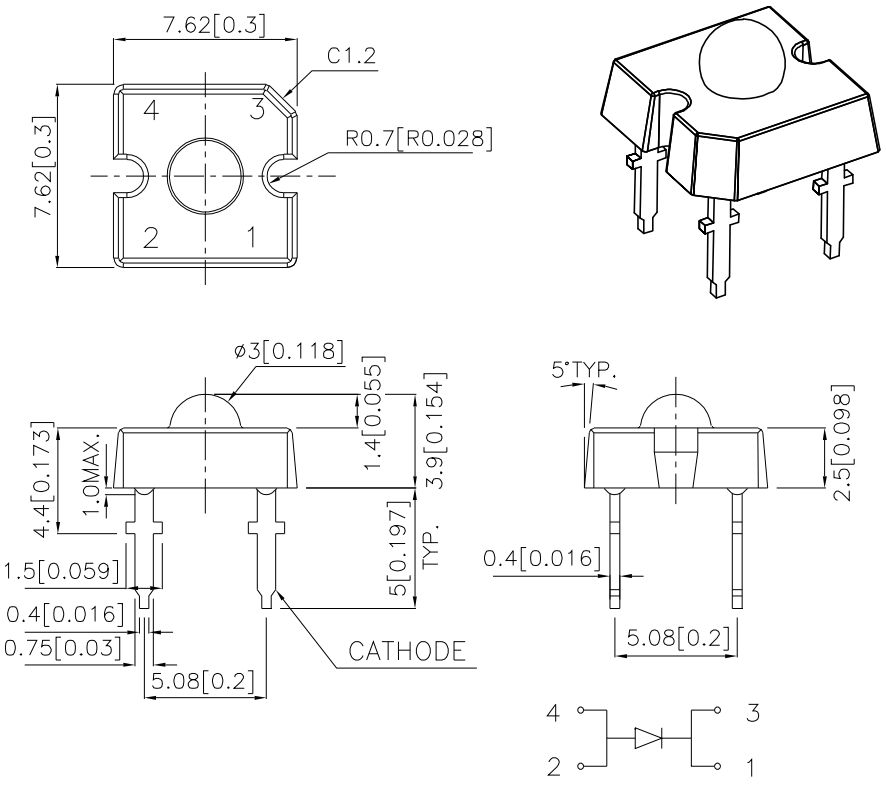
Typical Applications:

*****Automotive Exterior Lighting.

*****Electronic Signs and Signals.

*****Specialty Lighting.

Outline Drawings



Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±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	SUR/G	UNITS
DC Forward Current	70	mA
Power dissipation	182	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.
WP7679C1SURC/G	DH InGaAlP RED	1.8	3	70°

Notes:
1.Luminous intensity is measured with an integrating sphere after the device has stabilized.
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 $R_{\theta j-a}$=200°C/W

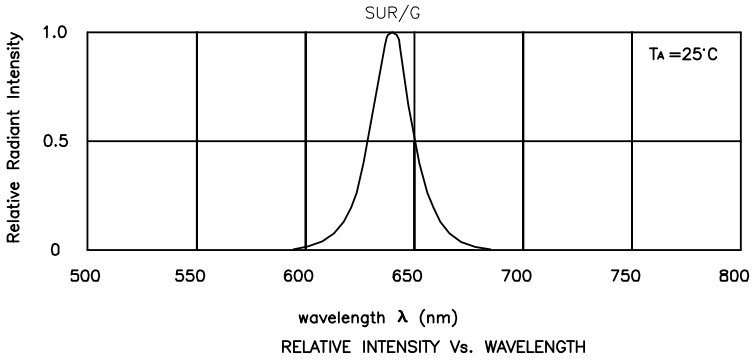
DEVICE TYPE	PEAK WAVELENGTH λPEAK (nm) TYP.	DOMINANT[1] WAVELENGTH λDOM (nm) TYP.	SPECTRAL LINE WAVELENGTH Δλ1/2(nm) TYP.
SUR/G	640	630	22

NOTE:
1.The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the device.

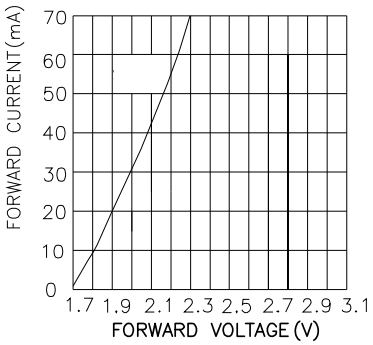
Electrical Characteristics at TA=25°C

DEVICE TYPE	FORWARD VOLTAGE V_F(VOLTS) @ I_F=70mA MIN.	FORWARD VOLTAGE V_F(VOLTS) @ I_F=70mA TYP.	FORWARD VOLTAGE 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.
SUR/G	2.1	2.3	2.6	10	45	125

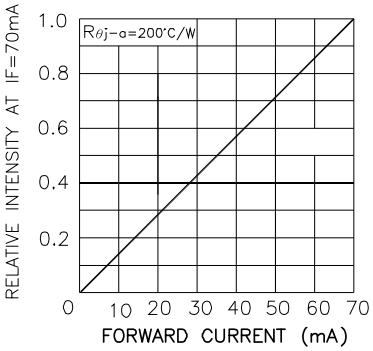
Figures



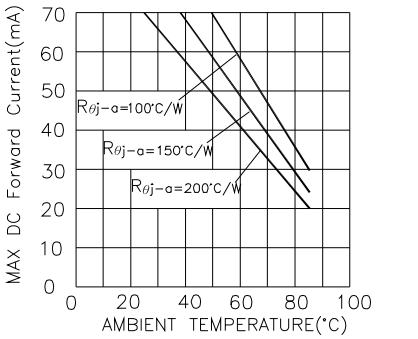
RELATIVE INTENSITY Vs. WAVELENGTH



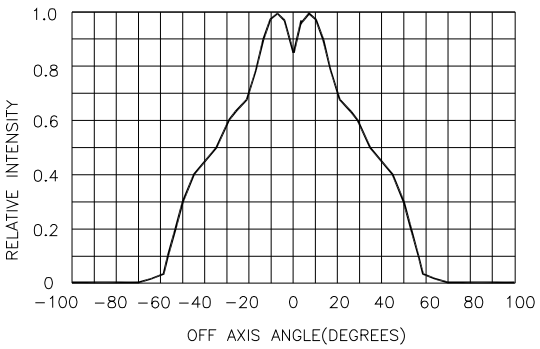
FORWARD CURRENT Vs.
FORWARD VOLTAGE



RELATIVE INTENSITY Vs.
FORWARD CURRENT



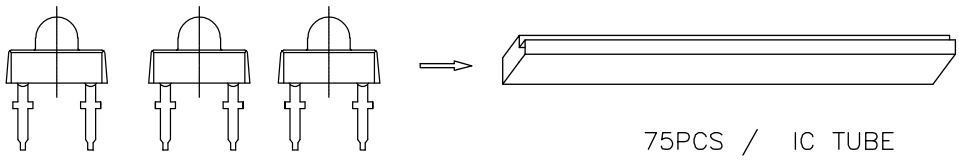
MAX DC FORWARD CURRENT Vs AMBIENT
TEMPERATURE



RELATIVE INTENSITY VS OFF AXIS ANGLE

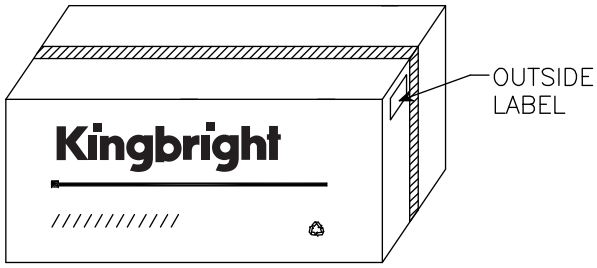
Kingbright

PACKING & LABEL SPECIFICATIONS **WP7679C1SURC/G**

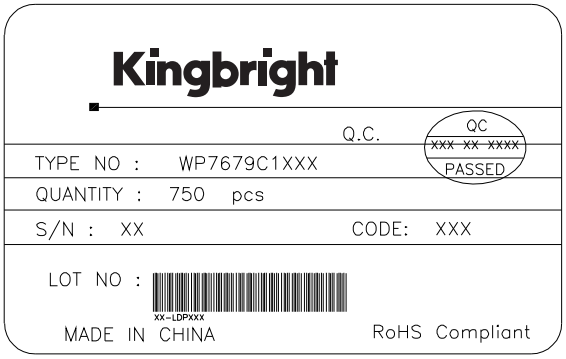


75PCS / IC TUBE

750pcs / 10pcs IC TUBE



24K / 6# BOX



Remarks:
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity/ luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:
1. Wavelength: +/-1nm
2. Luminous intensity/ luminous flux: +/-15%
3. Forward Voltage: +/-0.1V
Note: Accuracy may depend on the sorting parameters.