

## PRELIMINARY SPEC

L-7700C4SURC-G



## Technical Data

### Features

- \* HIGH LUMINANCE OUTPUT.
- \* DESIGN FOR HIGH CURRENT OPERATION.
- \* SOLDERLESS MOUNTING TECHNIQUE.
- \* LOW POWER CONSUMPTION.
- \* LOW THERMAL RESISTANCE.
- \* LOW PROFILE.
- \* PACKAGED IN TUBES FOR USE WITH  
AUTOMATIC INSERTION EQUIPMENT.
- \* RoHS COMPLIANT.

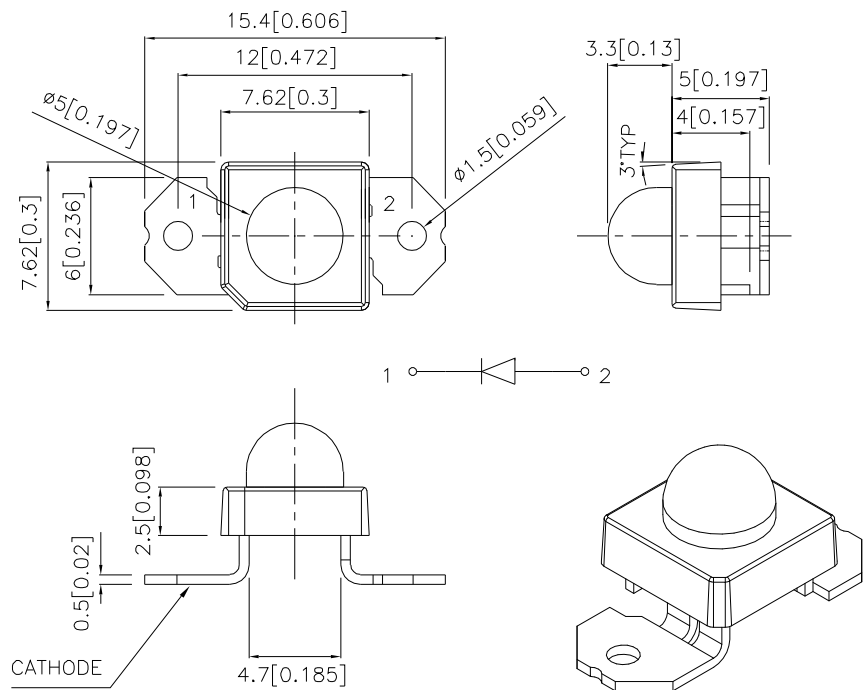
### Benefits

- \*Rugged Lighting Products.
- \*Electricity savings.
- \*Maintenance savings.
- \*Environmental Conformance.

### Typical Applications

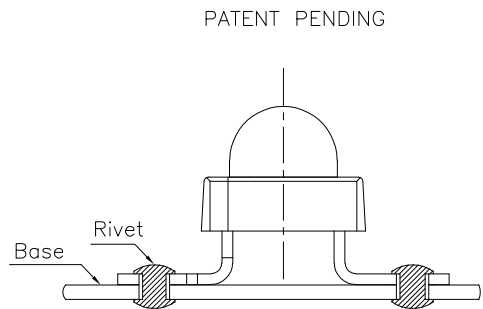
- \*Automotive Exterior Lighting.
- \*Solid State Lighting and Signaling.

## 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	SUR-G	UNITS
DC Forward Current	70	mA
Power dissipation	160	mW
Reverse Voltage	5	V
Operating Temperature	-40 To +85	°C
Storage Temperature	-55 To +85	°C

## Selection Guide

Part No.	LED COLOR	Iv(mcd) <sup>[1]</sup> @ 70mA		Viewing Angle <sup>[2]</sup>
		Min.	Typ.	2θ1/2 Typ.
L-7700C4SURC-G	HYPER RED (InGaAlP)	4700	7000	30°

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 If=70mA Rθj-a=200°C/W

DEVICE TYPE	PEAK WAVELENGTH λPEAK (nm) TYP.	DOMINANT <sup>[1]</sup> WAVELENGTH λDOM (nm) TYP.	SPECTRAL LINE WAVELENGTH Δλ1/2(nm) TYP.
L-7700C4SURC-G	640	630	22

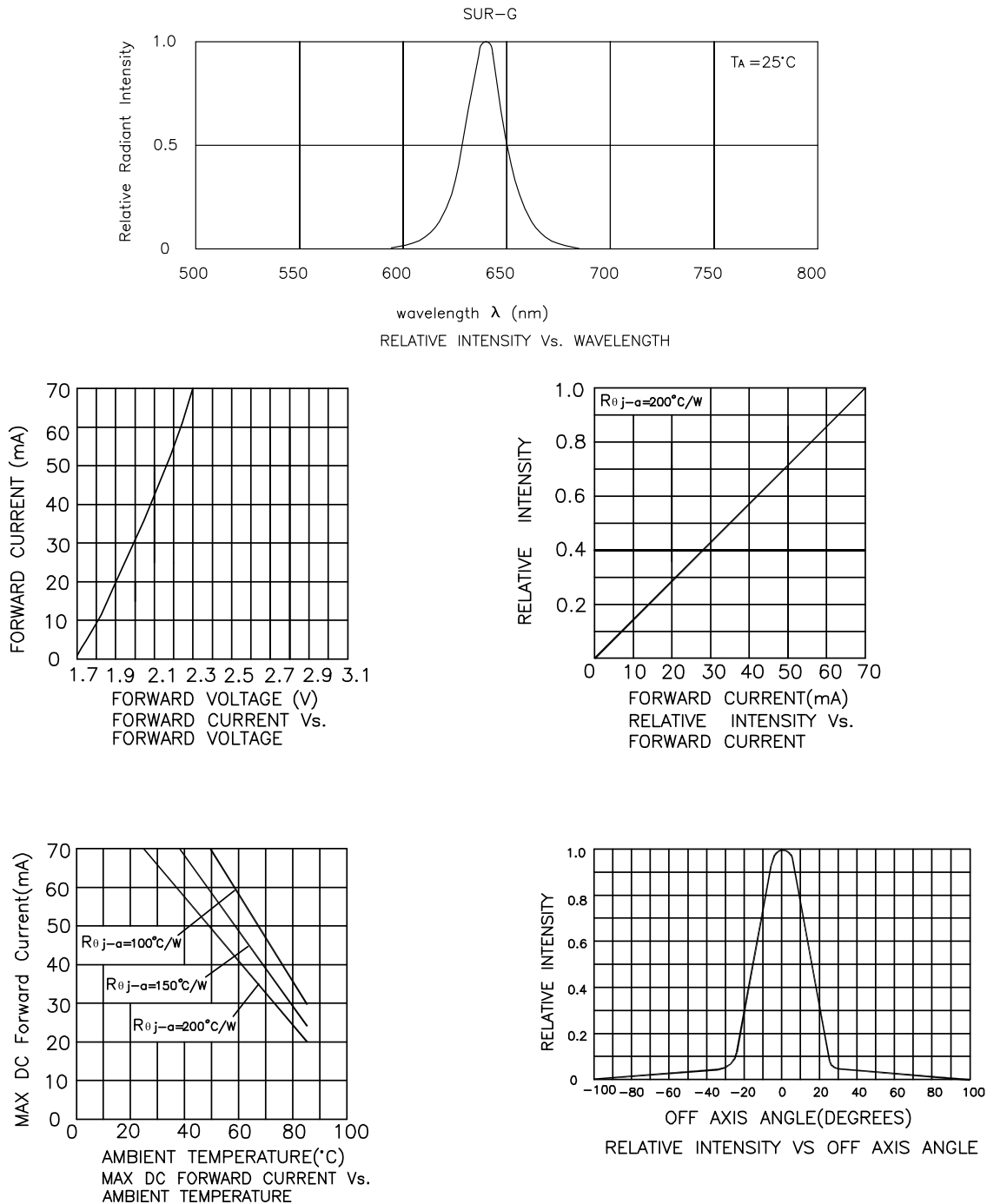
Note:

- 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			REVERSE CURRENT	CAPACITANCE	THERMAL
	V <sub>F</sub> (VOLTS)			I <sub>R</sub> (uA)	C (pF)	RESISTANCE
	@			@	@	Rθj-pin
	I <sub>F</sub> =70mA			V <sub>R</sub> =5V	V <sub>F</sub> =0V F=1MHZ	°C/W
	MIN.	TYP.	MAX.	MAX.	TYP.	TYP.
L-7700C4SURC-G	1.9	2.2	2.5	10	45	125

## Figures



### Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength:  $\pm 1\text{nm}$
2. Luminous Intensity:  $\pm 15\%$
3. Forward Voltage:  $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters.