

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.

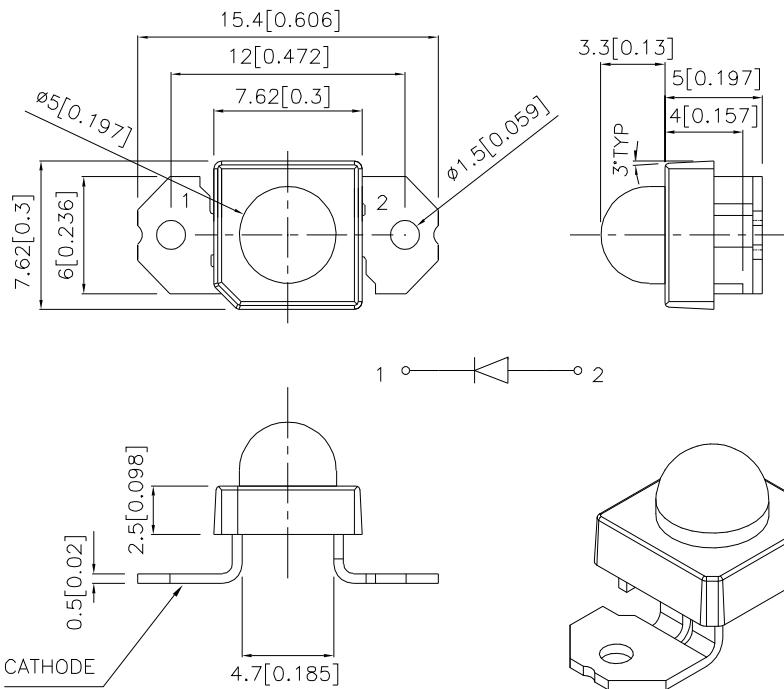
Benefits

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

Typical Applications

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

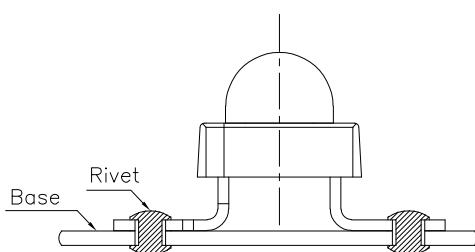
Outline Drawings



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.

PATENT PENDING



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	I _v (mcd) ^[1] @70mA		Viewing Angle ^[2]	
		Min.	Typ.	201/2 Typ.	30°
L-7700C4SURC-G	HYPER RED (InGaAlP)	4700	7000		

Notes:

- 1.Luminous intensity is measured with an integrating sphere after the device has stabilized.
- 2.01/2 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.
L-7700C4SURC-G	640	630	22

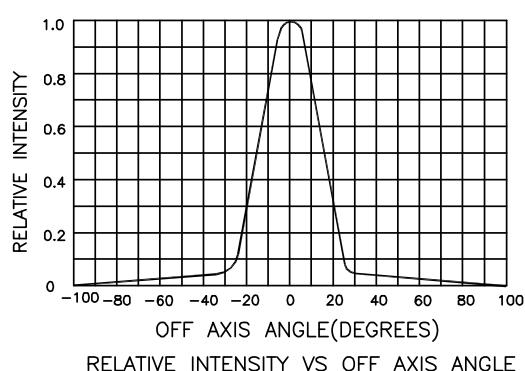
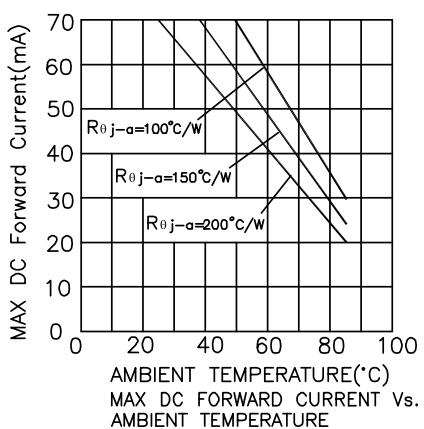
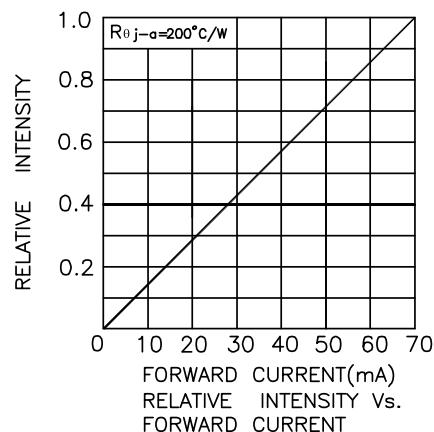
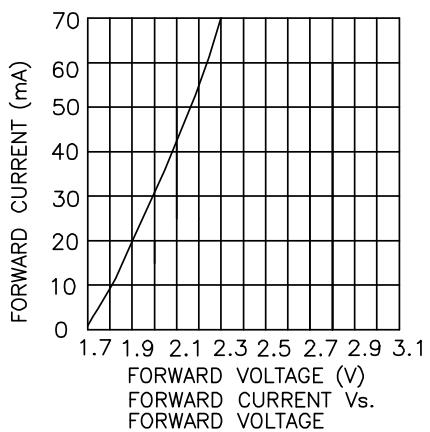
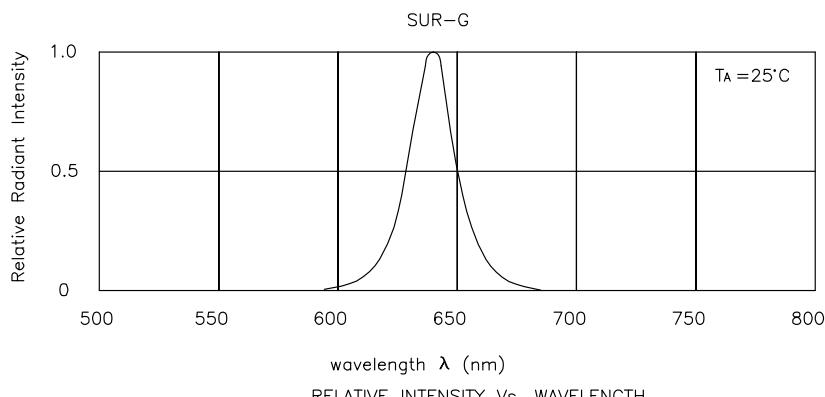
Note:

- 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 V _F (VOLTS) @ I _F =70mA			REVERSE CURRENT I _R (uA) @ V _R =5V	CAPACITANCE C (pF) @ V _F =0V F=1MHZ	THERMAL RESISTANCE R _{θj-pin} °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: +/-1nm
2. Luminous Intensity: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.