

PRELIMINARY SPEC

P/N: L-7701C4SEC-H



## 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.

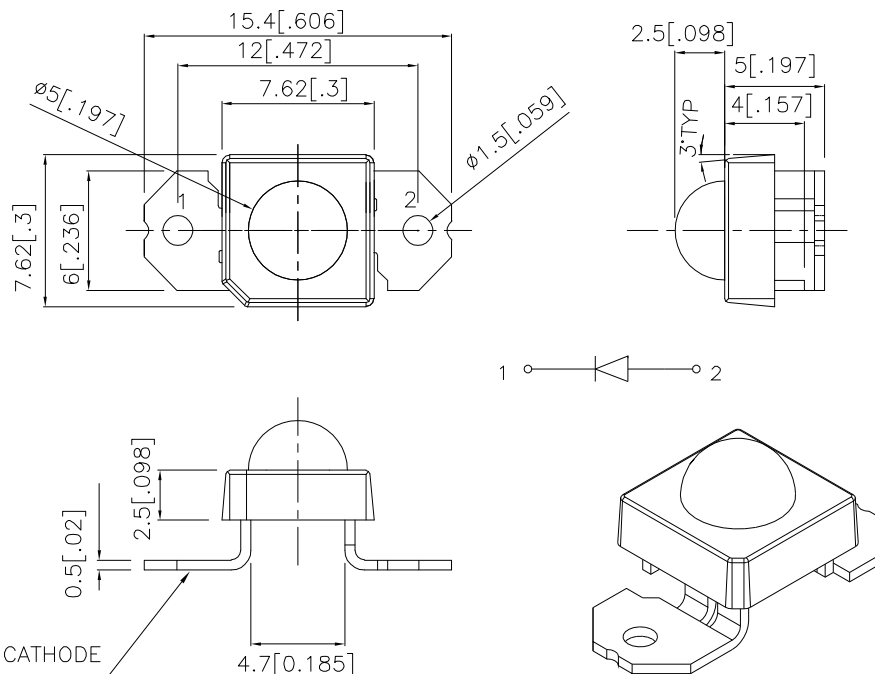
### Benefits

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

### Typical Applications

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

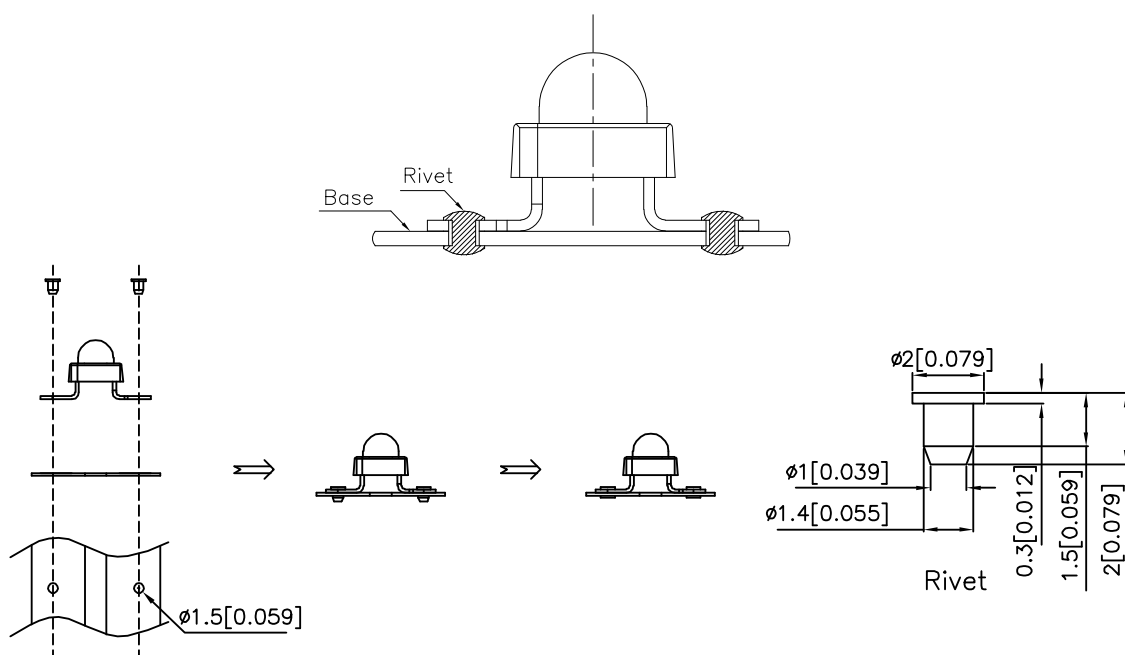
## Outline Drawings



**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	SE-H	UNITS
DC Forward Current	150	mA
Power dissipation	540	mW
Reverse Voltage	5	V
Operating Temperature	-40 To +85	°C
Storage Temperature	-55 To +85	°C

## Selection Guide

Part No.	LED COLOR	Iv(cd) <sup>[1]</sup> @70mA		Viewing Angle <sup>[2]</sup>
		MIN.	TYP.	2θ1/2 Typ.
L-7701C4SEC-H	HYPER ORANGE (InGaAlP)	5.7	10	50°

Notes:

- Luminous intensity is measured with an integrating sphere after the device has stabilized.
- 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	PEAK WAVELENGTH	DOMINANT <sup>[1]</sup> WAVELENGTH	SPECTRAL LINE WAVELENGTH
TYPE	λPEAK (nm) TYP.	λDOM (nm) TYP.	Δλ1/2(nm) TYP.
L-7701C4SEC-H	640	630	25

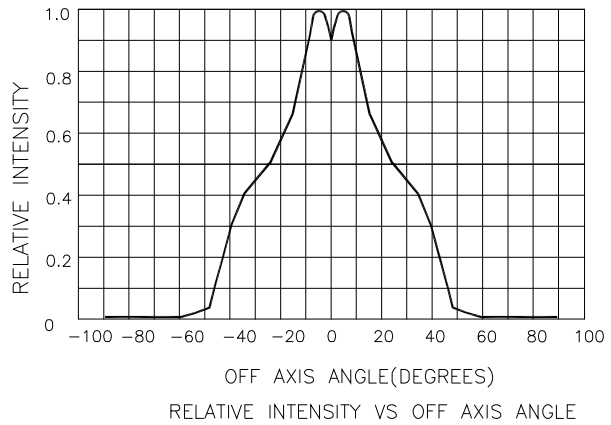
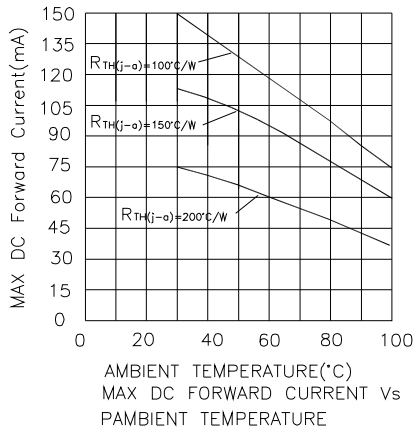
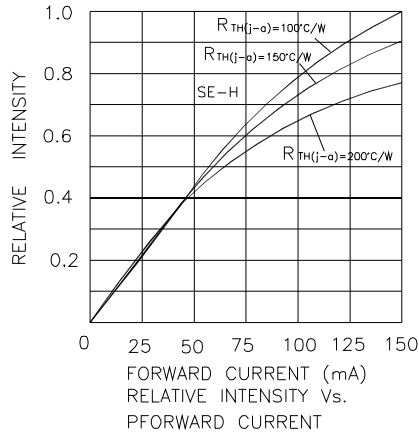
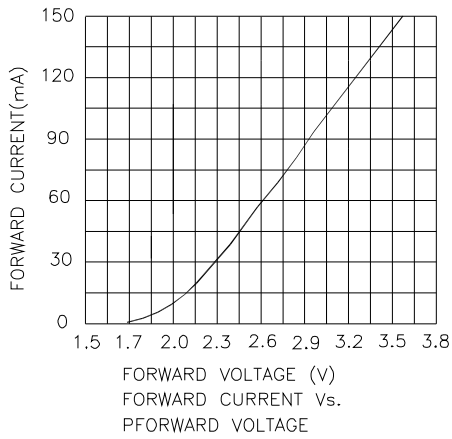
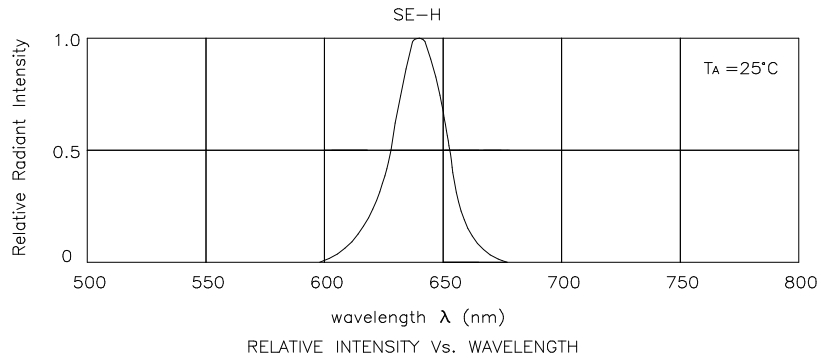
Note:

- 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	FORWARD VOLTAGE			REVERSE CURRENT	CAPACITANCE	THERMAL RESISTANCE
	VF(VOLTS) @ IF=70mA			IR (uA) @ VR=5V	C (pF) @ VF=0V F=1MHZ	Rθj-pin °C/W
TYPE	MIN.	TYP.	MAX.	MAX.	TYP.	TYP.
L-7701C4SEC-H	2.5	2.7	3.1	10	27	125

## Figures



**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.