

PRELIMINARY SPEC

L-7700C4SEC-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.

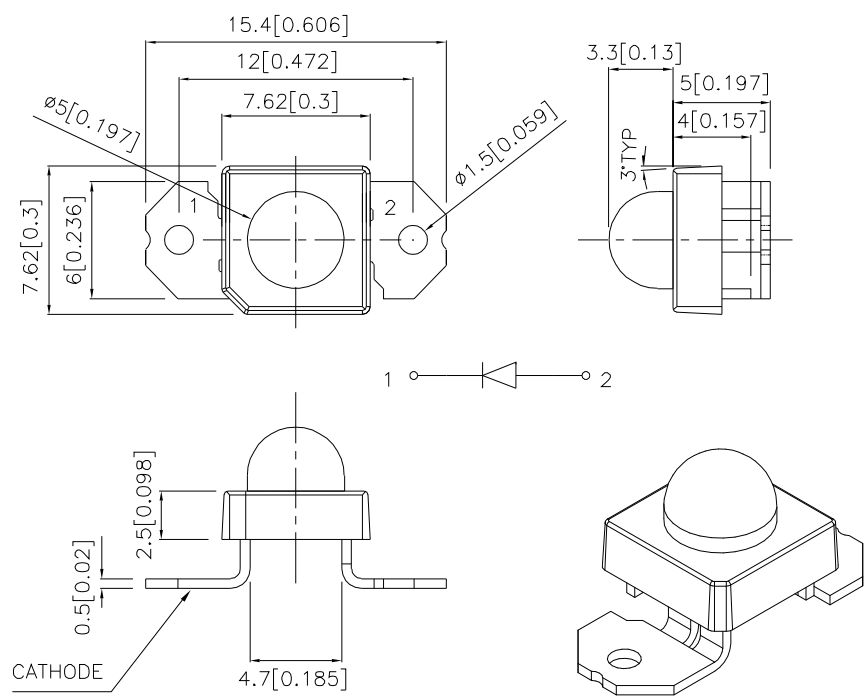
Benefits

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

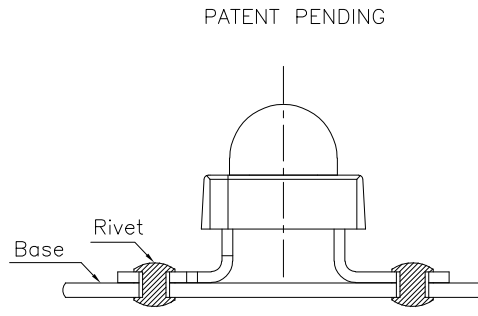
Typical Applications

- *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.



Absolute Maximum Ratings at TA=25°C

PARAMETER	SE-H	UNITS
DC Forward Current	70	mA
Power dissipation	200	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) ^[1] @70mA		Viewing Angle ^[2]
		Min.	Typ.	2θ1/2 Typ.
L-7700C4SEC-H	HYPER ORANGE (InGaAlP)	6.7	12	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 ^[1] WAVELENGTH λDOM (nm) TYP.	SPECTRAL LINE WAVELENGTH Δλ1/2(nm) TYP.
L-7700C4SEC-H	640	630	25

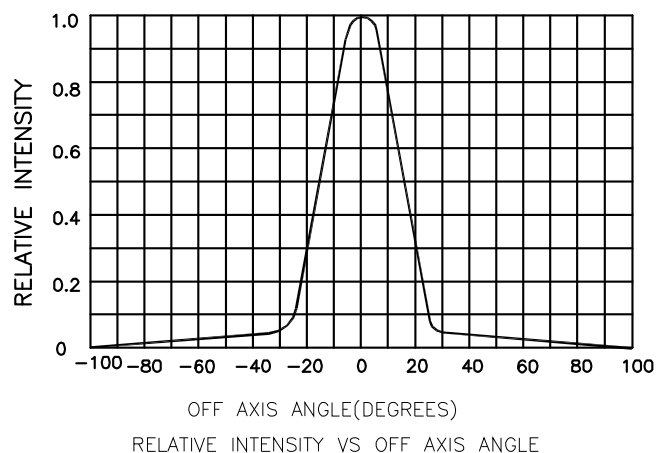
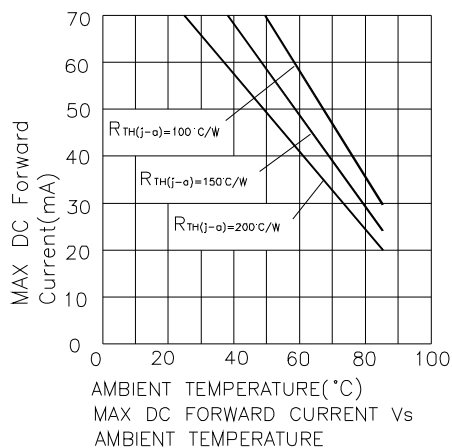
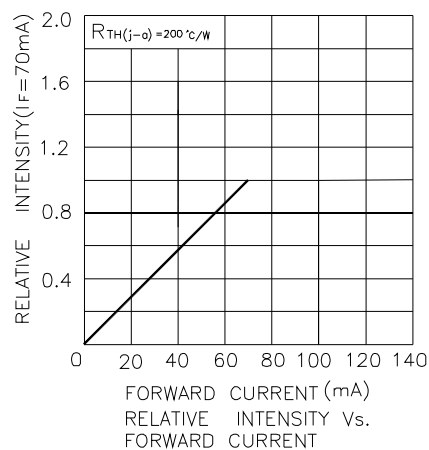
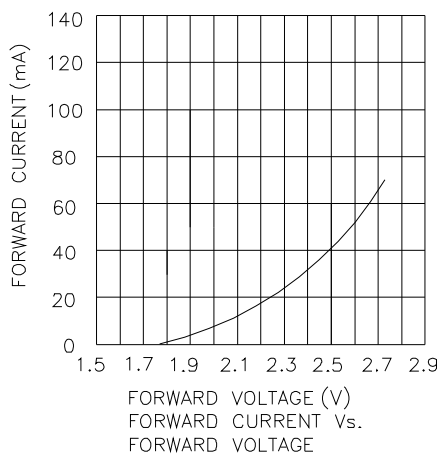
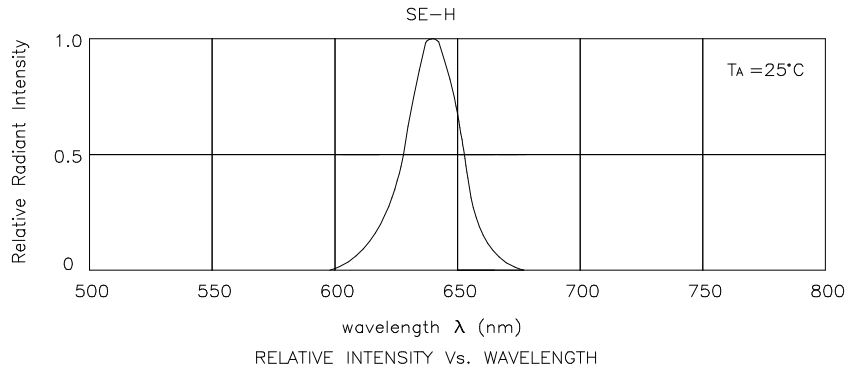
Note:

- 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 _F (VOLTS)			I _R (uA)	C (pF)	RESISTANCE
	@			@	@	Rθj-pin
	I _F =70mA			V _R =5V	V _F =0V F=1MHZ	°C/W
	MIN.	TYP.	MAX.	MAX.	TYP.	TYP.
L-7700C4SEC-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: $\pm 1\text{nm}$
2. Luminous intensity/ luminous flux: $\pm 15\%$
3. Forward Voltage: $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters.