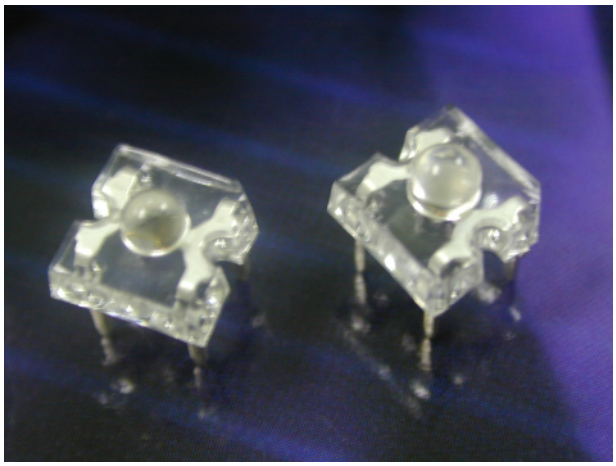
PRELIMINARY SPEC

Part Number: L-7679C1SYC-H



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.

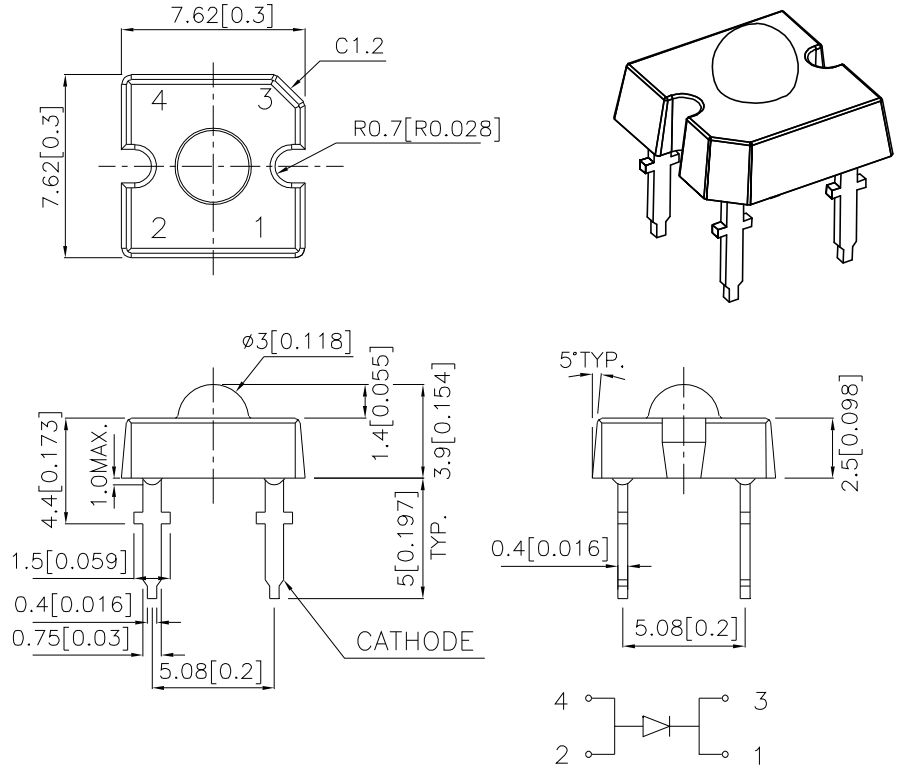
Typical Applications:

*****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	SY-H	UNITS
DC Forward Current	70	mA
Power dissipation	245	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.
L-7679C1SYC-H	TS InGaAlP YELLOW	1.2	4	70°

Notes:
1.Luminous intensity is measured with an integrating sphere after the device has stabilized; Luminous Intensity/ luminous flux: +/-15%.
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.
SY-H	590	589	20

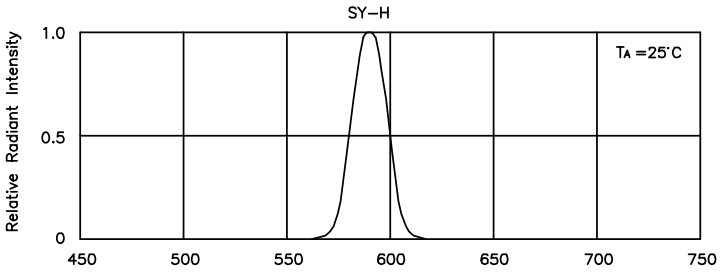
Note:
1.The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the device; Wavelength: +/-1nm.

Electrical Characteristics at TA=25°C

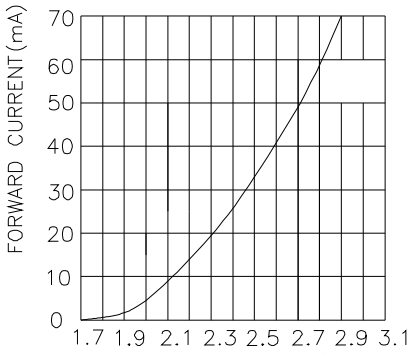
DEVICE TYPE	FORWARD VOLTAGE V_F(VOLTS) @ I_F=70mA [1] MIN.	FORWARD VOLTAGE V_F(VOLTS) @ I_F=70mA [1] TYP.	FORWARD VOLTAGE V_F(VOLTS) @ I_F=70mA [1] MAX.	REVERSE CURRENT I_R (uA) @ V_R=5V MAX.	CAPACITANCE C (pF) @ V_F=0V F=1MHZ TYP.	THERMAL RESISTANCE Rθj-pin °C/W TYP.
SY-H	2.6	2.9	3.5	10	45	125

Note:
1.Forward Voltage: +/-0.1V.

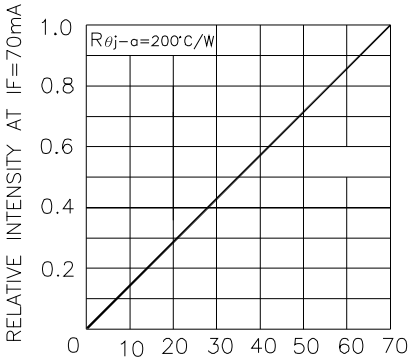
Figures



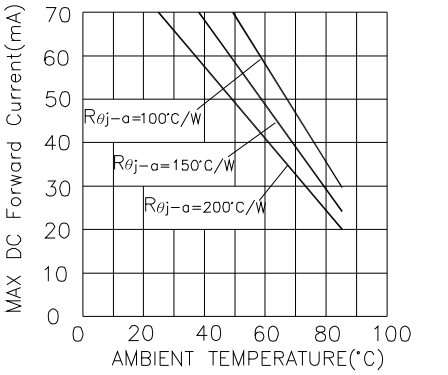
RELATIVE INTENSITY Vs. WAVELENGTH



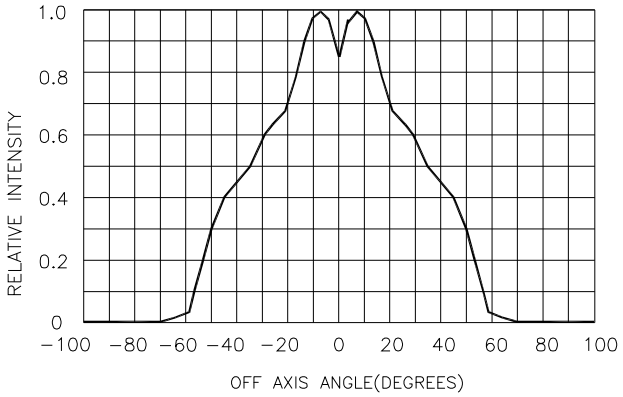
FORWARD CURRENT Vs.
FORWARD VOLTAGE



RELATIVE INTENSITY Vs.
FORWARD CURRENT



MAX DC FORWARD CURRENT Vs AMBIENT
TEMPERATURE



RELATIVE INTENSITY VS OFF AXIS ANGLE