

L934SEC/E HYPER ORANGE  
 L934SEC/H HYPER ORANGE  
 L934SYC/H SUPER BRIGHT YELLOW

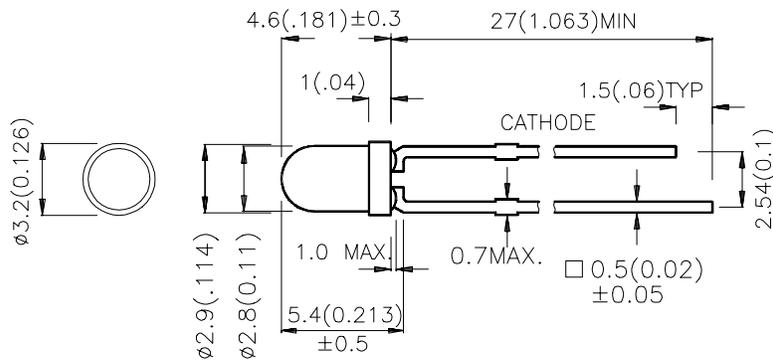
### Features

- ULTRA BRIGHTNESS.
- BOTH DIFFUSED AND WATER CLEAR LENS ARE AVAILABLE.
- OUTSTANDING MATERIAL EFFICIENCY.
- RELIABLE AND RUGGED.
- IC COMPATIBLE/LOW CURRENT CAPABILITY.

### Description

The Hyper Orange and Super Bright Yellow source color devices are made with DH InGaAlP on GaAs substrate Light Emitting Diode.

### Package Dimensions



#### 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 lead emerge package.
4. Specifications are subject to change without notice.

## Selection Guide

| Part No.  | Dice                          | Lens Type   | Iv (mcd)<br>@ 20 mA |      | Viewing<br>Angle |
|-----------|-------------------------------|-------------|---------------------|------|------------------|
|           |                               |             | Min.                | Typ. | θ1/2             |
| L934SEC/E | HYPER ORANGE (InGaAlP)        | WATER CLEAR | 1000                | 2000 | 50°              |
| L934SEC/H |                               | WATER CLEAR | 2000                | 3500 | 50°              |
| L934SYC/H | SUPER BRIGHT YELLOW (InGaAlP) | WATER CLEAR | 480                 | 900  | 50°              |

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

## Electrical / Optical Characteristics at T<sub>A</sub>=25°C

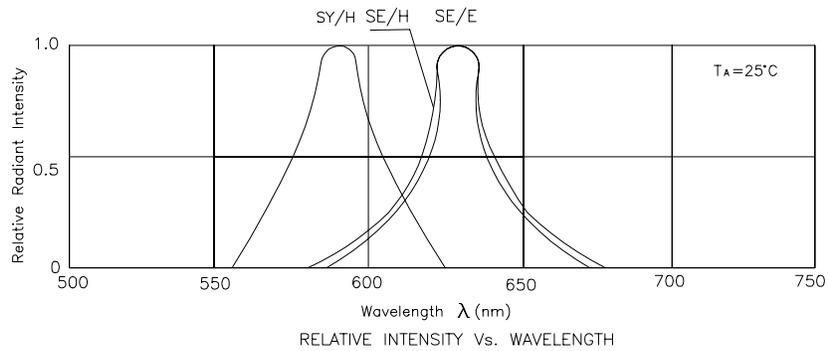
| Symbol            | Parameter               | Device   | Typ.              | Max.              | Units | Test Conditions |
|-------------------|-------------------------|--|-------------------|-------------------|-------|-----------------|
| λ <sub>peak</sub> | Peak Wavelength         | Hyper Orange (SE/E)<br>Hyper Orange (SE/H)<br>Super Bright Yellow (SY/H) | 630<br>630<br>590 |                   | nm    | IF=20mA         |
| λ <sub>D</sub>    | Dominate Wavelength     | Hyper Orange (SE/E)<br>Hyper Orange (SE/H)<br>Super Bright Yellow (SY/H) | 621<br>630<br>589 |                   | nm    | IF=20mA         |
| Δλ <sub>1/2</sub> | Spectral Line Halfwidth | Hyper Orange (SE/E)<br>Hyper Orange (SE/H)<br>Super Bright Yellow (SY/H) | 20<br>25<br>20    |                   | nm    | IF=20mA         |
| C                 | Capacitance             | Hyper Orange (SE/E)<br>Hyper Orange (SE/H)<br>Super Bright Yellow (SY/H) | 25<br>27<br>45    |                   | pF    | VR=0V;f=1MHz    |
| V <sub>F</sub>    | Forward Voltage         | Hyper Orange (SE/E)<br>Hyper Orange (SE/H)<br>Super Bright Yellow (SY/H) | 2.0<br>2.4<br>2.3 | 2.5<br>2.8<br>2.8 | V     | IF=20mA         |
| I <sub>R</sub>    | Reverse Current         | All  |                   | 10                | μA    | VR = 5V         |

## Absolute Maximum Ratings at T<sub>A</sub>=25°C

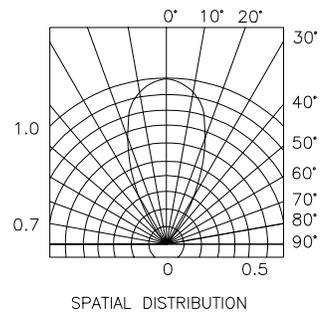
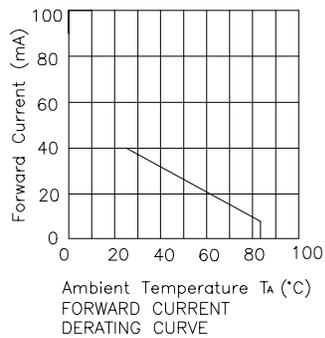
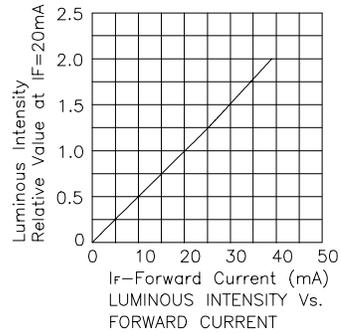
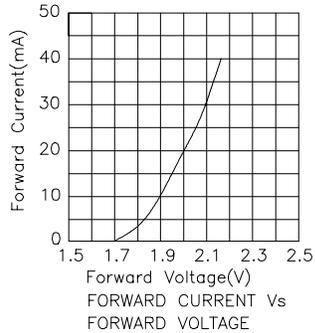
| Parameter                     | Hyper Orange<br>(SE/E) | Hyper Orange<br>(SE/H) | Super Bright Yellow<br>(SY/H) | Units |
|-------------------------------|------------------------|------------------------|-------------------------------|-------|
| Power dissipation             | 150                    | 120                    | 120                           | mW    |
| DC Forward Current            | 40                     | 30                     | 30                            | mA    |
| Peak Forward Current [1]      | 195                    | 150                    | 140                           | mA    |
| Reverse Voltage               | 5                      | 5                      | 5                             | V     |
| Operating/Storage Temperature | -40°C To +85°C         |                        |                               |       |
| Lead Solder Temperature [2]   | 260°C For 5 Seconds    |                        |                               |       |

Notes:

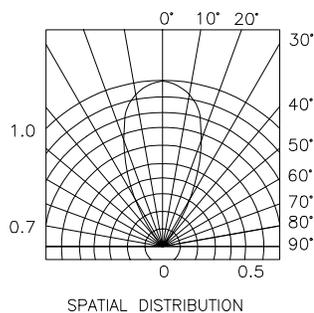
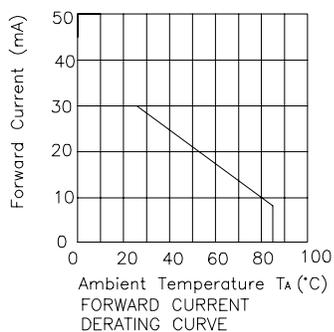
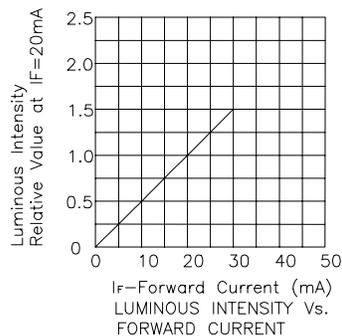
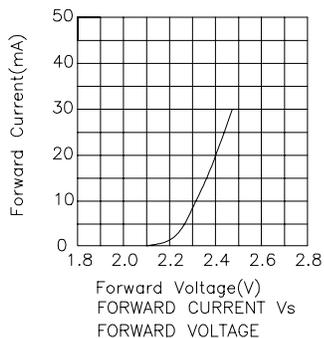
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.



## Hyper Orange L934SEC/E



## Hyper Orange L934SEC/H



## Super Bright Yellow L934SYC/H

