

L-7104SEx SUPER BRIGHT ORANGE

L-7104SYx SUPER BRIGHT YELLOW

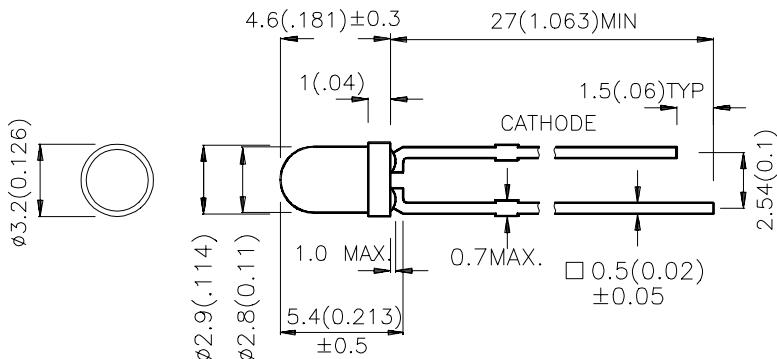
Features

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

Description

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

Package Dimensions



Notes:

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

Selection Guide

| Part No. | Dice | Lens Type | I _V (mcd) @ 20 mA | | Viewing Angle |
|-----------|-------------------------------|-----------------|------------------------------|------|---------------|
| | | | Min. | Typ. | |
| L-7104SEC | SUPER BRIGHT ORANGE (InGaAlP) | WATER CLEAR | 500 | 1300 | 34° |
| L-7104SET | | ORANGE TRANS. | 500 | 1300 | 34° |
| L-7104SED | | ORANGE DIFFUSED | 300 | 800 | 40° |
| L-7104SYC | SUPER BRIGHT YELLOW (InGaAlP) | WATER CLEAR | 300 | 700 | 34° |
| L-7104SYT | | YELLOW TRANS. | 300 | 700 | 34° |
| L-7104SYD | | YELLOW DIFFUSED | 100 | 250 | 40° |

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_A=25°C

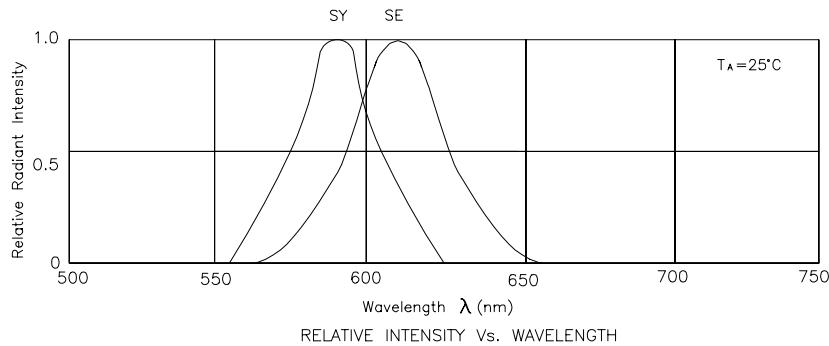
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|----------------|-------------------------|--|------------|------------|-------|-----------------|
| λpeak | Peak Wavelength | Super Bright Orange Super Bright Yellow | 610 590 | | nm | IF=20mA |
| λ D | Dominate Wavelength | Super Bright Orange Super Bright Yellow | 601 588 | | nm | IF=20mA |
| Δλ1/2 | Spectral Line Halfwidth | Super Bright Orange Super Bright Yellow | 29 28 | | nm | IF=20mA |
| C | Capacitance | Super Bright Orange Super Bright Yellow | 30 25 | | pF | VF=0V;f=1MHz |
| V _F | Forward Voltage | Super Bright Orange Super Bright Yellow | 2.0 2.0 | 2.5 2.5 | V | IF=20mA |
| I _R | Reverse Current | All | | 10 | uA | VR = 5V |

Absolute Maximum Ratings at T_A=25°C

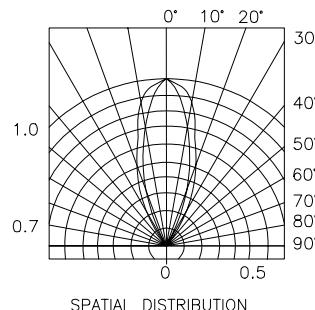
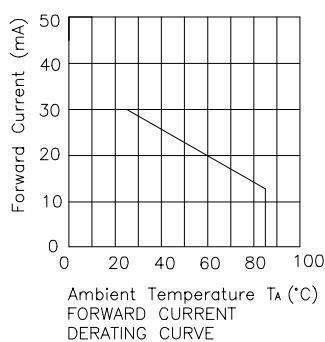
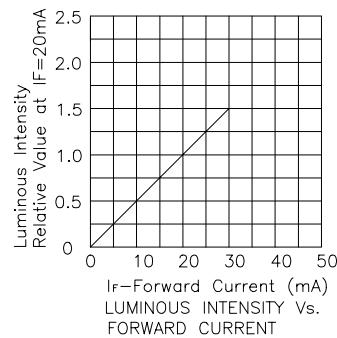
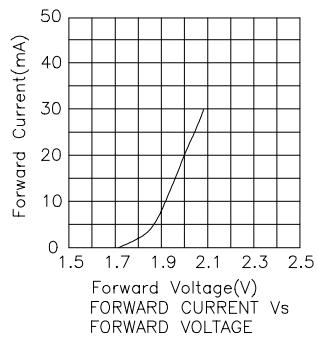
| Parameter | Super Bright Orange | Super Bright Yellow | Units |
|--------------------------------|---------------------|---------------------|-------|
| Power dissipation | 75 | 125 | mW |
| DC Forward Current | 30 | 30 | mA |
| Peak Forward Current [1] | 195 | 175 | mA |
| Reverse Voltage | 5 | 5 | V |
| Operating/Storage Temperature | -40°C To +85°C | | |
| Lead Soldering Temperature [2] | 260°C For 5 Seconds | | |

Notes:

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



Super Bright Orange L-7104SEC,L-7104SET,L-7104SED



Super Bright Yellow L-7104SYC,L-7104SYT,L-7104SYD

