

L3VEYW

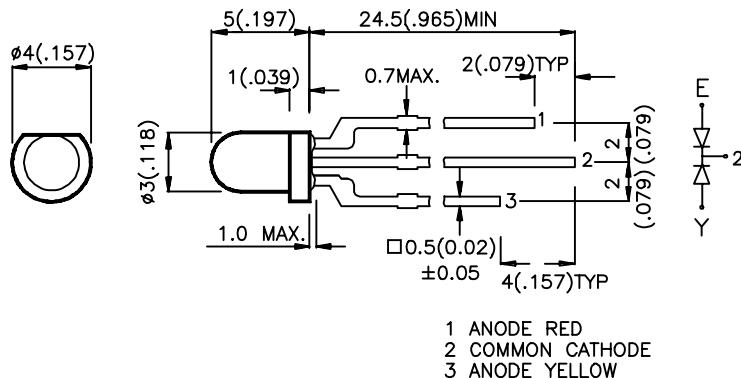
Features

- UNIFORM LIGHT OUTPUT.
- LOW POWER CONSUMPTION.
- MILKY WHITE DIFFUSION LENS.
- 3 LEADS WITH ONE COMMON LEAD.
- THIRD COLOR (MIXED COLOR) AVAILABLE.
- SUPER BRIGHT VERSION AVAILABLE.
- I.C. COMPATIBLE.
- LONG LIFE - SOLID STATE RELIABILITY.

Description

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.
The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow 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 | I _v (mcd) @ 20 mA | | Viewing Angle |
|----------|---------------------------------|----------------|---------------------------------|------|---------------|
| | | | Min. | Typ. | |
| L3VEYW | HIGH EFFICIENCY RED (GaAsP/GaP) | WHITE DIFFUSED | 12 | 40 | 60° |
| | YELLOW (GaAsP/GaP) | | 8 | 15 | |

Note:

1. 01/2 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

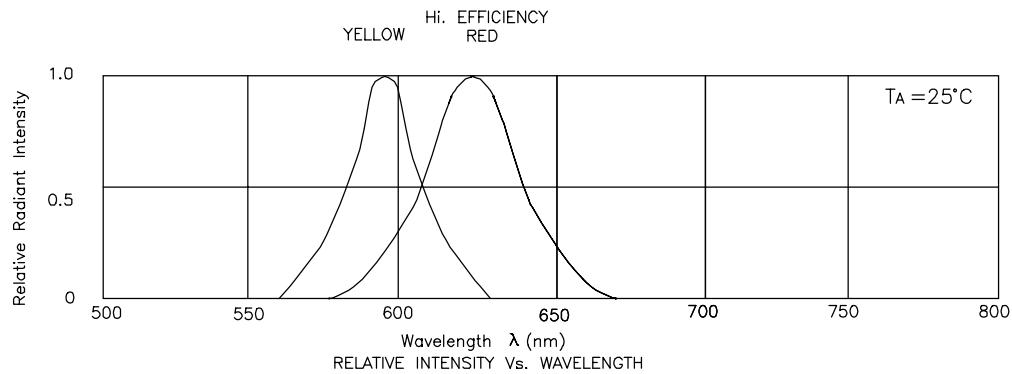
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-------------------|-------------------------|----------------------------|------------|------------|-------|-----------------|
| λ _{peak} | Peak Wavelength | High Efficiency Red Yellow | 627 590 | | nm | IF=20mA |
| λ D | Dominate Wavelength | High Efficiency Red Yellow | 625 588 | | nm | IF=20mA |
| Δλ1/2 | Spectral Line Halfwidth | High Efficiency Red Yellow | 45 35 | | nm | IF=20mA |
| C | Capacitance | High Efficiency Red Yellow | 15 20 | | pF | VF=0V;f=1MHz |
| V _F | Forward Voltage | High Efficiency Red Yellow | 2.0 2.1 | 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 | High Efficiency Red | Yellow | Units |
|-------------------------------|---------------------|--------|-------|
| Power dissipation | 105 | 105 | mW |
| DC Forward Current | 30 | 30 | mA |
| Peak Forward Current [1] | 160 | 140 | mA |
| Reverse Voltage | 5 | 5 | V |
| Operation/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.



High Efficiency Red / Yellow L3VEYW

