T-1(3mm) BI-COLOR INDICATOR LAMP

PRELIMINARY SPEC

Part Number: L-3VEGW-CA

HIGH EFFICIENCY RED GREEN

Features

•UNIFORM LIGHT OUTPUT.

•LOW POWER CONSUMPTION.

•3 LEADS WITH ONE COMMON LEAD.

•I.C. COMPATIBLE.

•LONG LIFE - SOLID STATE RELIABILITY.

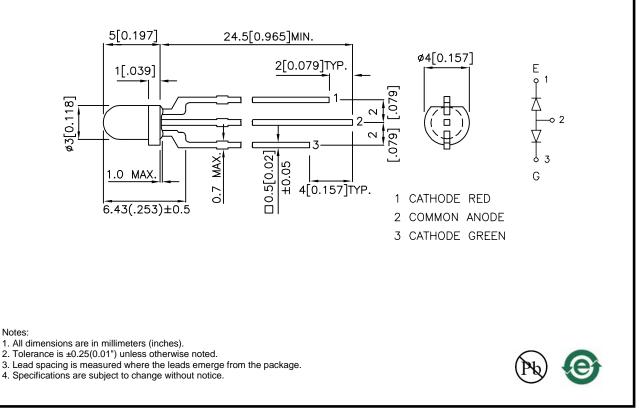
•RoHS COMPLIANT.

Description

The High Efficiency Red source color devices are made With Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions



SPEC NO: DSAA4865

APPROVED: WYNEC

REV NO: V.7 CHECKED: Allen Liu DATE: JUN/25/2007 DRAWN: W.J.HUA

Selection Guide

| Part No. | Dice | Lens Type | lv (mcd) [2] @ 20mA | | Viewing Angle [1] |
|------------|---------------------------------|----------------|------------------------|------|----------------------|
| | | | Min. | Тур. | 201/2 |
| L-3VEGW-CA | HIGH EFFICIENCY RED (GaAsP/GaP) | WHITE DIFFUSED | 2.6 | 10 | 60° |
| | GREEN (GaP) | | 1.6 | 8 | |

Notes:

01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
Luminous Intensity / Luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

| Symbol | Parameter | Device | Тур. | Max. | Units | Test Conditions |
|----------------|--------------------------|------------------------------|------------|------------|-------|---------------------------|
| λpeak | Peak Wavelength | High Efficiency Red Green | 627 565 | | nm | I _F =20mA |
| λD [1] | Dominant Wavelength | High Efficiency Red Green | 625 568 | | nm | I _F =20mA |
| Δλ1/2 | Spectral Line Half-width | High Efficiency Red Green | 45 30 | | nm | I _F =20mA |
| С | Capacitance | High Efficiency Red Green | 15 15 | | pF | V _F =0V;f=1MHz |
| Vf [2] | Forward Voltage | High Efficiency Red Green | 2.0 2.2 | 2.5 2.5 | V | I _F =20mA |
| I _R | Reverse Current | High Efficiency Red Green | | 10 10 | uA | $V_R = 5V$ |

Notes:

1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

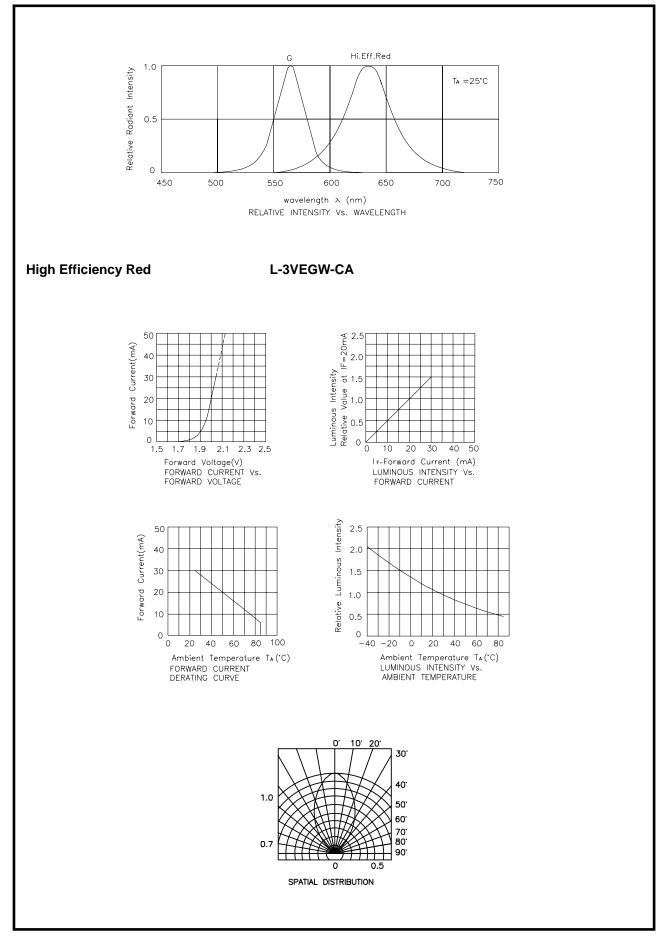
| Parameter | High Efficiency Red | Green | Units | | |
|-------------------------------|---------------------|-------|-------|--|--|
| Power dissipation | 75 | 62.5 | mW | | |
| DC Forward Current | 30 | 25 | mA | | |
| Peak Forward Current [1] | 160 | 140 | mA | | |
| Reverse Voltage | 5 | 5 | V | | |
| Operating/storage Temperature | -40°C To +85°C | | | | |
| Lead Solder Temperature [2] | 260°C For 3 Seconds | | | | |
| Lead Solder Temperature [3] | 260°C For 5 Seconds | | | | |

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.

3. 5mm below package base.



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Green

