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

P/N: L-115VEGW

HIGH EFFICIENCY RED GREEN

#### Features

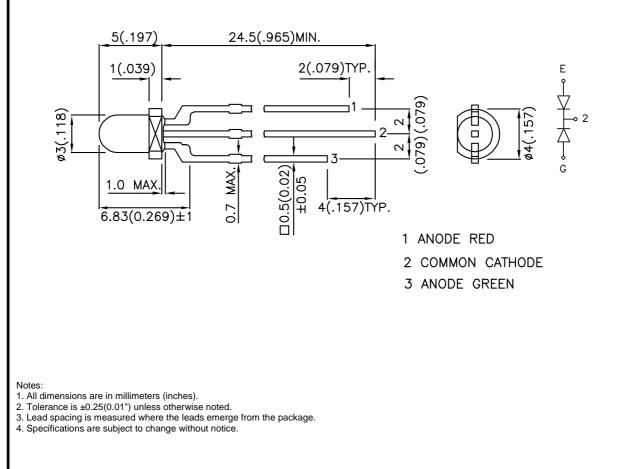
- •UNIFORM LIGHT OUTPUT.
- •LOW POWER CONSUMPTION.
- •3 LEADS WITH ONE COMMON LEAD.
- •I.C. COMPATIBLE.
- •LONG LIFE SOLID STATE RELIABILITY.
- •RoHS COMPLIANT.

#### 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: DSAA0082 APPROVED: J. Lu REV NO: V.8 CHECKED: Allen Liu DATE: NOV/22/2005 DRAWN: Y.W.WANG

Selection Guid	de				
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle
			Min.	Тур.	2 0 1/2
L-115VEGW	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	10	50	60°
	GREEN (GaP)		10	30	

Note: 1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

### 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 <sub>F</sub> =20mA
λD	Dominant Wavelength	High Efficiency Red Green	625 568		nm	I <sub>F</sub> =20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red Green	45 30		nm	I <sub>F</sub> =20mA
С	Capacitance	High Efficiency Red Green	15 15		pF	V <sub>F</sub> =0V;f=1MHz
V <sub>F</sub>	Forward Voltage	High Efficiency Red Green	2.0 2.2	2.5 2.5	V	I <sub>F</sub> =20mA
I <sub>R</sub>	Reverse Current	High Efficiency Red Green		10 10	uA	$V_R = 5V$

### Absolute Maximum Ratings at TA=25°C

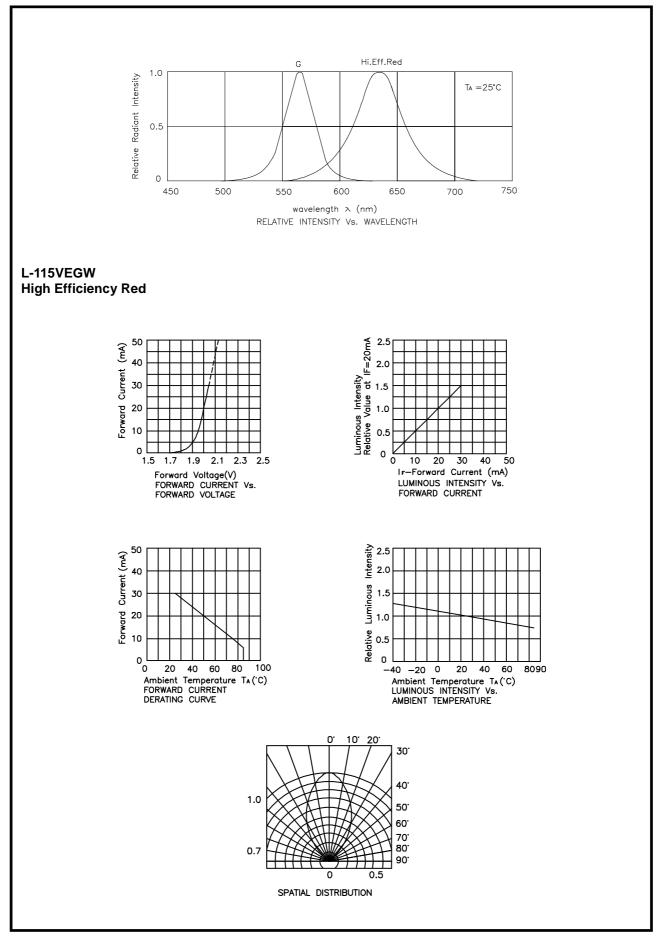
Parameter	High Efficiency Red	Green	Units			
Power dissipation	105	105	mW			
DC Forward Current	30	25	mA			
Peak Forward Current [1]	160	140	mA			
Reverse Voltage	5	5	V			
Operating / storage Temperature	-40°C To +85°C					
Lead Solder Temperature [2]	260°C For 3 Seconds					
Lead Solder Temperature [3]	260°C For 5 Seconds					

Notes:

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

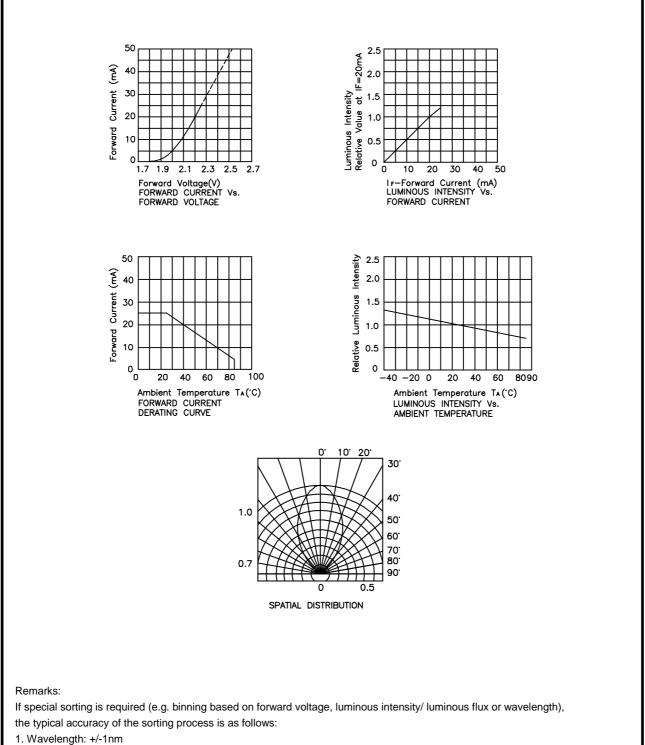
2. 2mm below package base.

3. 5mm below package base.



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#### Green



- 2. Luminous Intensity/ Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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