### T-1 3/4 (5mm) BI-COLOR RIGHT ANGLE LED INDICATOR

Part Number: L-150A9VS/1EGW

High Efficiency Red Green

#### Features

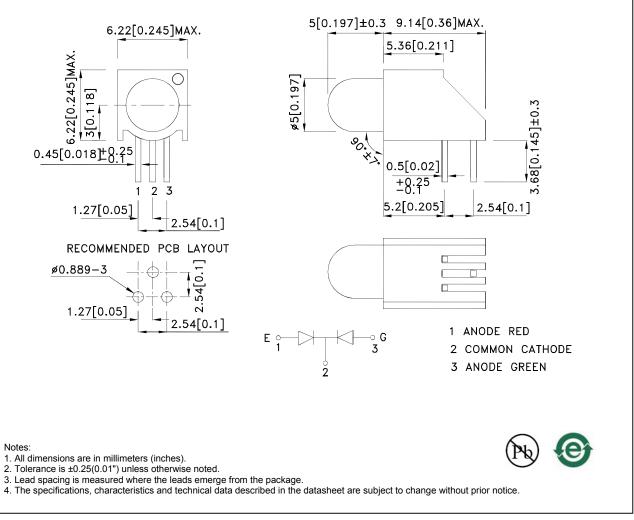
- Pre-trimmed leads for pc board mounting.
- High reliability life measured in years.
- Housing UL rating:94V-0.
- Housing material: type 66 nylon.
- RoHS compliant.

#### 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: DSAE7017 APPROVED: WYNEC REV NO: V.11A CHECKED: Allen Liu DATE: SEP/27/2013 DRAWN: D.N.Huang PAGE: 1 OF 6 ERP: 1102006958

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Min. Typ.	201/2
L-150A9VS/1EGW	High Efficiency Red (GaAsP/GaP)	White Diffused	18	50	- 30°
			*12	*30	
	Green (GaP)		18	50	
			*18	*50	

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
2. Luminous intensity/ luminous Flux: +/-15%.
\* Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

#### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	High Efficiency Red Super Bright Green	627 565		nm	I⊧=20mA	
λD [1]	Dominant Wavelength	High Efficiency Red Super Bright Green	617 568		nm	I⊧=20mA	
Δλ1/2	Spectral Line Half-width	High Efficiency Red Super Bright Green	45 30		nm	I⊧=20mA	
С	Capacitance	High Efficiency Red Super Bright Green	15 15		pF	VF=0V;f=1MHz	
VF [2]	Forward Voltage	High Efficiency Red Super Bright Green	2 2.2	2.5 2.5	V	I⊧=20mA	
lr	Reverse Current	High Efficiency Red Super Bright Green		10 10	uA	VR = 5V	

Notes:

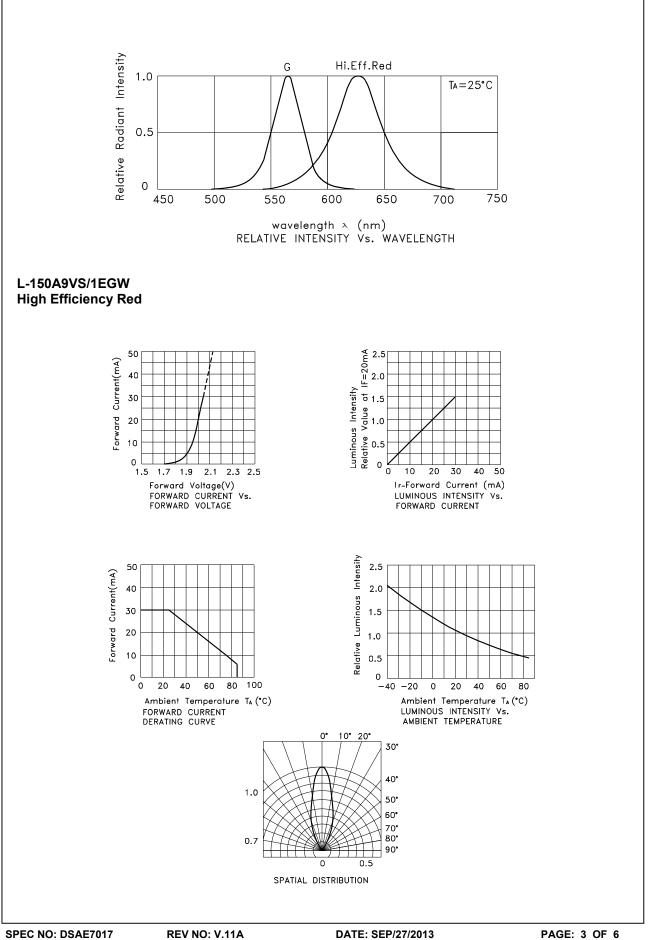
1.Wavelength: +/-1nm. 2.Forward Voltage: +/-0.1V. 3.Wavelength value is traceable to the CIE127-2007 compliant national standards.

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

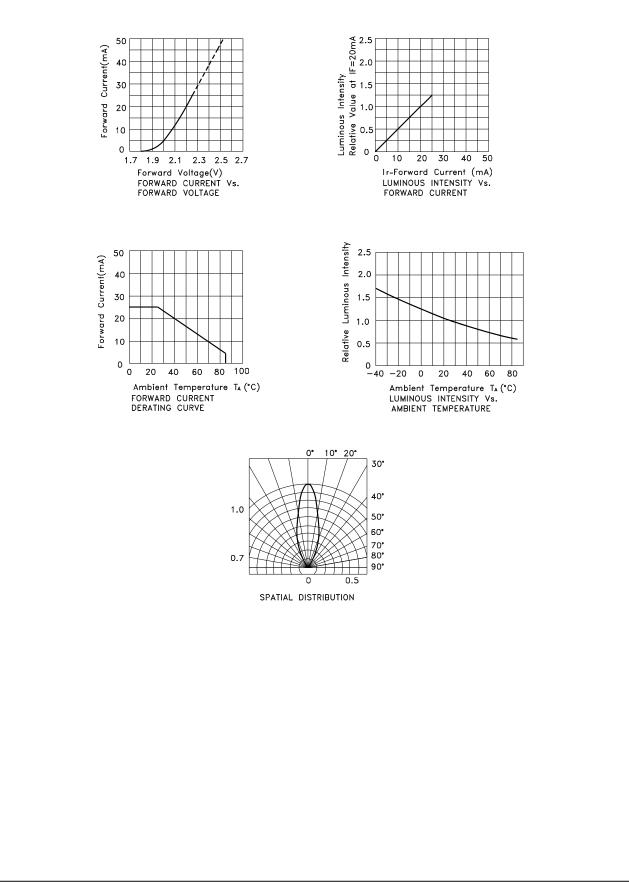
Parameter	High Efficiency Red	Green	Units		
Power dissipation	75	62.5	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	160	140	mA		
Reverse Voltage	Į	5	V		
Operating / Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 3 Seconds				
Lead Solder Temperature [3]	260°C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

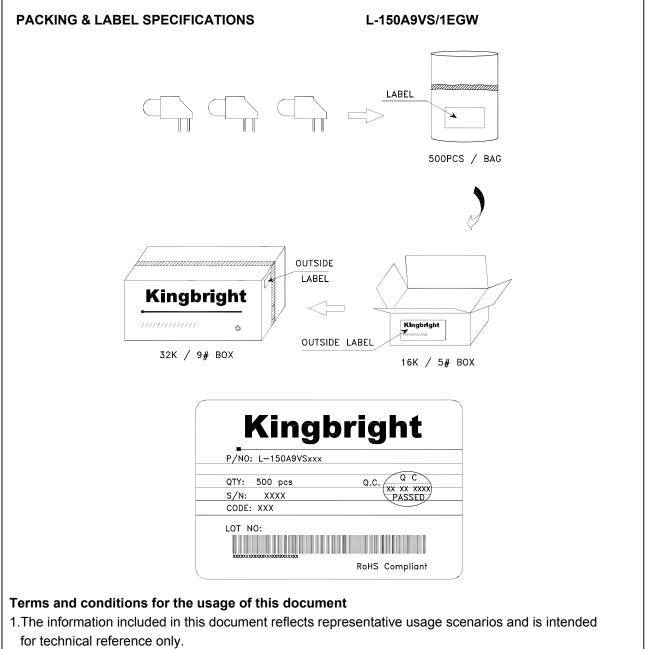
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
 2. 2mm below package base.
 3. 5mm below package base.



Green





- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
- 5. The contents and information of this document may not be reproduced or re-transmitted without permission by Kingbright.
- 6.All design applications should refer to Kingbright application notes available at <a href="http://www.kingbright.com/application\_notes">http://www.kingbright.com/application\_notes</a>

#### PRECAUTIONS

1. The lead pitch of the LED must match the pitch of the mounting holes on the PCB during component placement. Lead-forming may be required to insure the lead pitch matches the hole pitch. Refer to the figure below for proper lead forming procedures.

