

T-1 (3mm) RIGHT ANGLE LED INDICATOR

Part Number: L-130WDT/1EGW

High Efficiency Red

Features

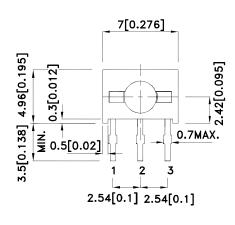
- Pre-trimmed leads for pc board mounting.
- 3 leads with common lead.
- Black case enhances contrast ratio.
- Housing UL rating:94V-0.
- Housing material: type 66 nylon.
- RoHS compliant.

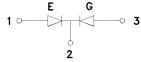
Description

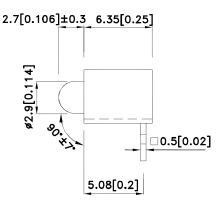
The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

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

Package Dimensions







- 1 ANODE RED
- 2 COMMON CATHODE
- 3 ANODE GREEN

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25(0.01") unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.
 4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

SPEC NO: DSAA8283 APPROVED: WYNEC

REV NO: V.13 CHECKED: Allen Liu

DATE: DEC/15/2010 DRAWN: C.H.Han

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
L-130WDT/1EGW	High Efficiency Red (GaAsP/GaP)	White Diffused	12	30	60°
	Green (GaP)	Wille Dillused	12	30	

- Notes: 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value. 2. Luminous intensity/ luminous Flux: +/-15%.

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 IF=20mA		
λD [1]	Dominant Wavelength	High Efficiency Red Green	625 568		nm	I==20mA	
Δλ1/2	Spectral Line Half-width	High Efficiency Red Green	45 30		nm	IF=20mA	
С	Capacitance	High Efficiency Red Green	15 15		pF	VF=0V;f=1MHz	
VF [2]	Forward Voltage	High Efficiency Red Green	2 2.2	2.5 2.5	V	I==20mA	
lr	Reverse Current	High Efficiency Red Green		10 10	uA	V _R = 5V	

Notes:

- 1.Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.

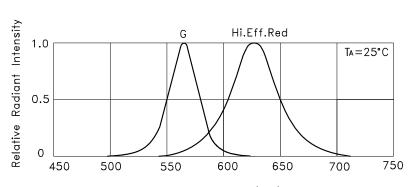
Absolute Maximum Ratings at TA=25°C

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		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:

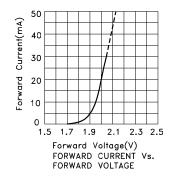
- 1.1/10 Duty Cycle, 0.1ms Pulse Width.
 2. 2mm below package base.
 5mm below package base.

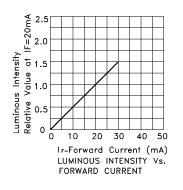
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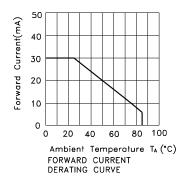


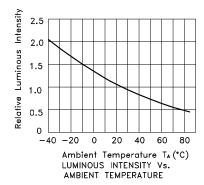
wavelength \times (nm) RELATIVE INTENSITY Vs. WAVELENGTH

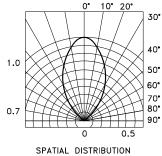
L-130WDT/1EGW High Efficiency Red





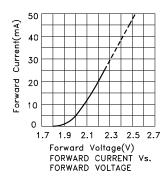


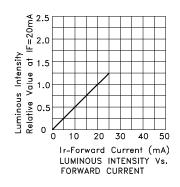


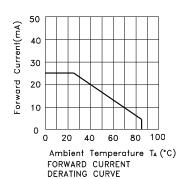


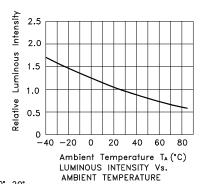
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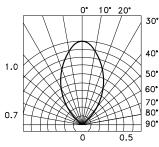
Green





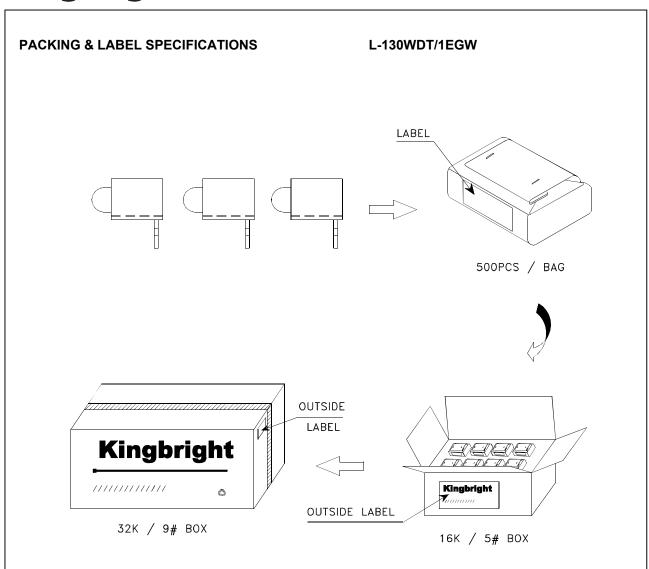


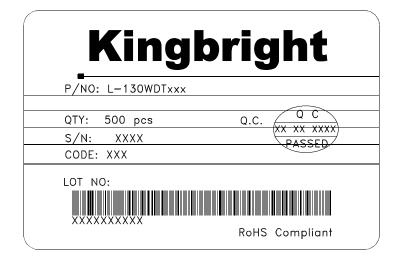




SPATIAL DISTRIBUTION

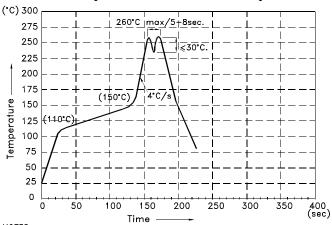
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NOTES:

- 1.Recommend the wave temperature 245°C~260°C.The maximum soldering temperature should be less than 260°C.
- $2.\mbox{Do}$ not apply stress on epoxy resins when temperature is over $85\mbox{^{\circ}C}.$
- 3. The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
- 4.During wave soldering, the PCB top-surface temperature should be kept below 105°C. 5.No more than once.

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