T-1 (3mm) TRI-LEVEL LED INDICATOR

WP934SA/1I2GD

HIGH EFFICIENCY RED

GREEN

Features

•PRE-TRIMMED LEADS FOR PC MOUNTING.

•I.C. COMPATIBLE.

•BLACK CASE ENHANCES CONTRAST RATIO.

•WIDE VIEWING ANGLE.

•HIGH RELIABILITY LIFE MEASURED IN YEARS.

•UL RATING: 94V-0.

•HOUSING MATERIAL: TYPE 66 NYLON.

•RoHS COMPLIANT.

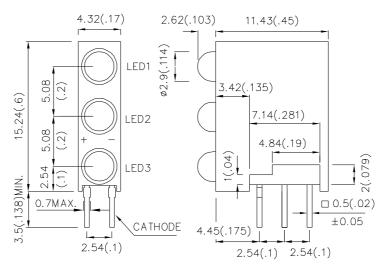
Description

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

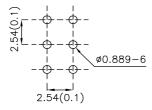
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions

LED1: WP934ID(RED)
LED2,3: WP934GD(GREEN)



RECOMMENDED PCB LAYOUT



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 leads emerge from the package.
- 4. Specifications are subject to change without notice.

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 10mA		Viewing Angle	
		-	Min.	Тур.	2 θ 1/2	
WP934SA/1I2GD	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	8	20	40°	
WP9345A/112GD	GREEN (GaP)	GREEN DIFFUSED	8	20		

Note:

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=20mA
λD	Dominant Wavelength	High Efficiency Red Green	625 568		nm	I=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red Green	45 30		nm	I=20mA
С	Capacitance	High Efficiency Red Green	15 15		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red Green	2.0 2.2	2.5 2.5	V	I=20mA
I _R	Reverse Current	All		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:

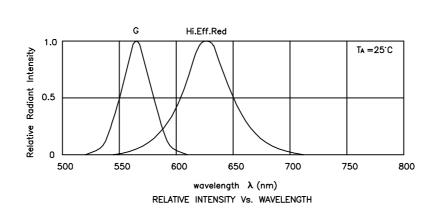
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
- 3. 5mm below package base.

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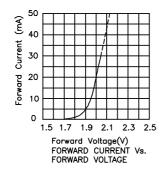
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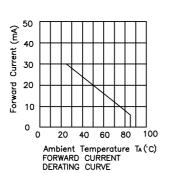
^{1.01/2} is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

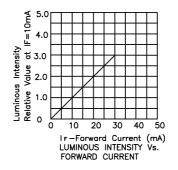
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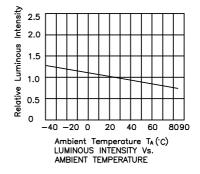


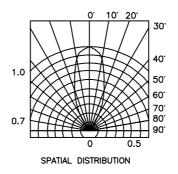
WP934SA/1I2GD High Efficiency Red







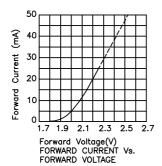


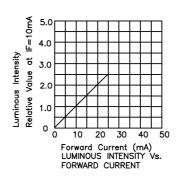


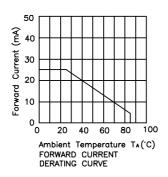
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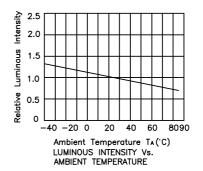
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Green



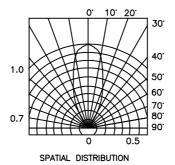






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Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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