

## 4.7mm RIGHT ANGLE LED INDICATOR

Part Number: WP1533BQ/ID HIGH EFFICIENCY RED

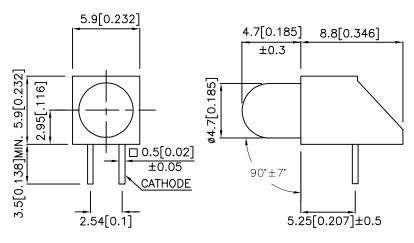
### **Features**

- •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.

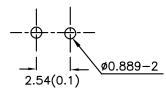
## **Description**

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

## **Package Dimensions**







### Notes:

- 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) [2] @ 10 mA		Viewing Angle [1]
			Min.	Тур.	201/2
WP1533BQ/ID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	8	30	60°

- 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline 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	627		nm	IF=20mA
λD [1]	Dominant Wavelength	High Efficiency Red	625		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45		nm	IF=20mA
С	Capacitance	High Efficiency Red	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	High Efficiency Red	2.0	2.5	V	IF=20mA
lr	Reverse Current	High Efficiency Red		10	uA	VR = 5V

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

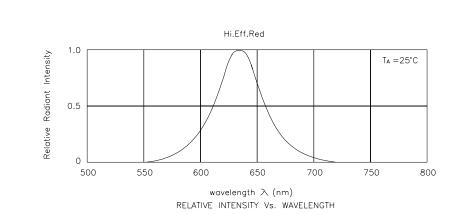
## Absolute Maximum Ratings at Ta=25°C

Parameter	High Efficiency Red		
Power dissipation	75	mW	
DC Forward Current	30		
Peak Forward Current [1]	160	mA	
Reverse Voltage	5	V	
Operating/Storage Temperature	g/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		

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

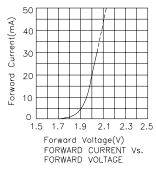
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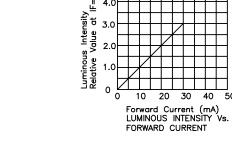
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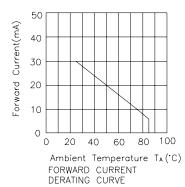


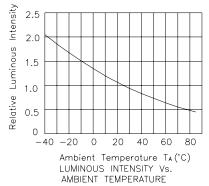
High Efficiency Red

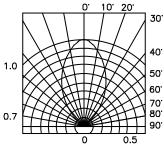
WP1533BQ/ID









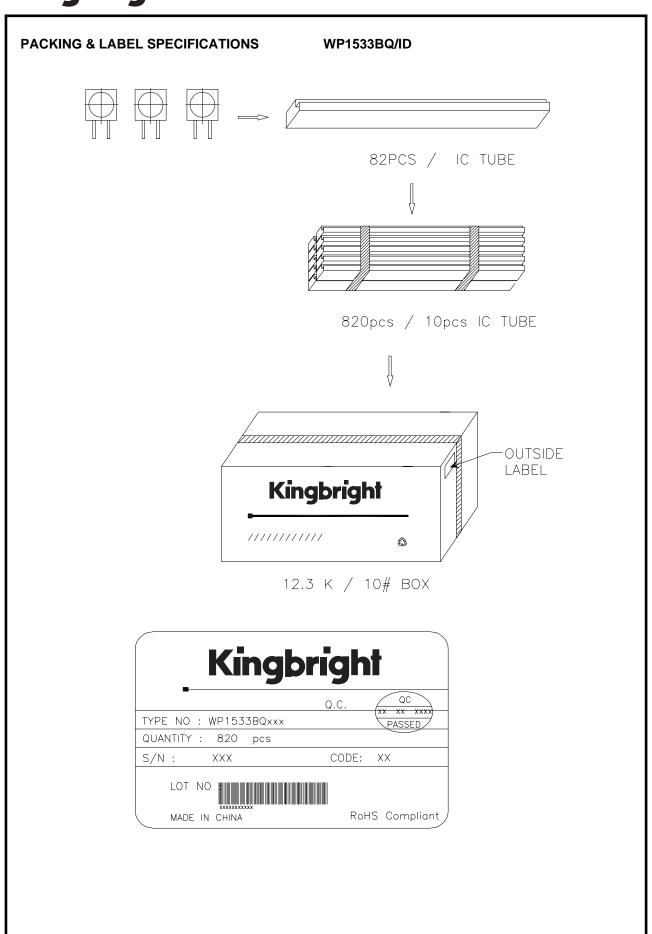


SPATIAL DISTRIBUTION

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