

WP7113BR9.52/ID

HIGH EFFICIENCY RED

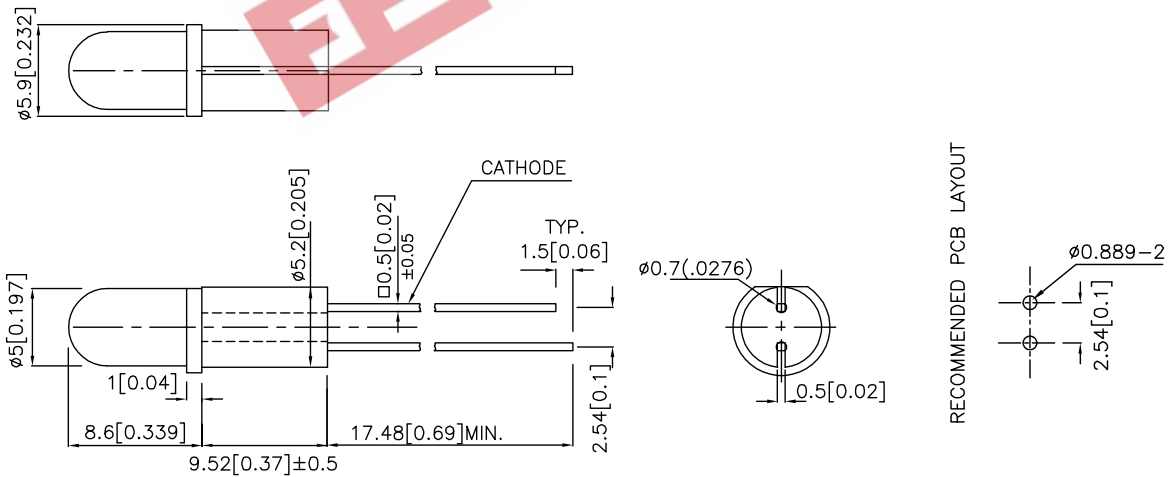
Features

- LED FIRMLY HELD BY SPACER-NO ADDITIONAL FIXTURING OR GLUEING NECESSARY.
- SUITABLE FOR BACK PANEL ILLUMINATION, CIRCUIT BOARD INDICATOR, LED INDICATOR.
- UL RATING: 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- RoHS COMPLIANT.

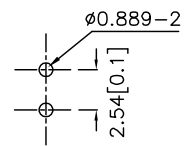
Description

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

Package Dimensions



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.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 10mA		Viewing Angle
			Min.	Typ.	2 θ 1/2
WP7113BR9.52/ID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	8	45	30°

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25°C

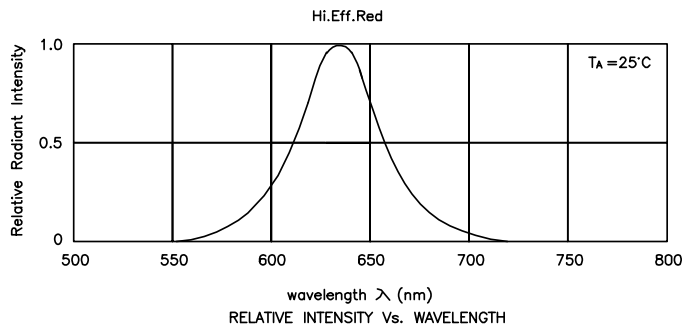
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627		nm	IF=20mA
λD	Dominant Wavelength	High Efficiency Red	625		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45		nm	IF=20mA
C	Capacitance	High Efficiency Red	15		pF	VF=0V;f=1MHz
VF	Forward Voltage	High Efficiency Red	2.0	2.5	V	IF=20mA
IR	Reverse Current	High Efficiency Red		10	uA	VR = 5V

Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red	Units
Power dissipation	105	mW
DC Forward Current	30	mA
Peak Forward Current [1]	160	mA
Reverse Voltage	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	

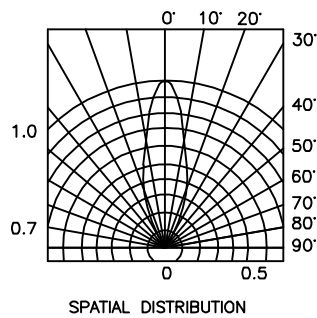
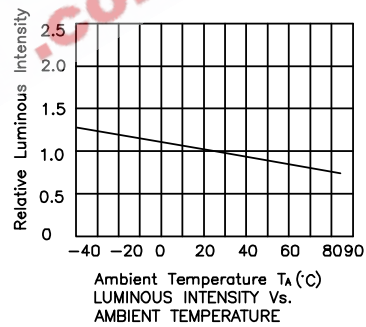
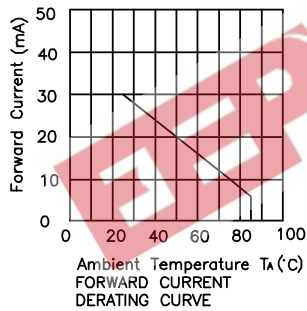
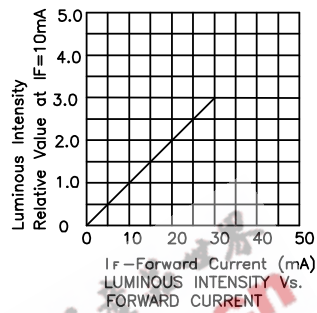
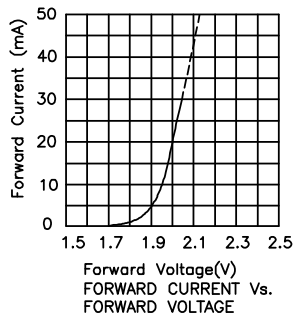
Notes:

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



High Efficiency Red

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Remarks:

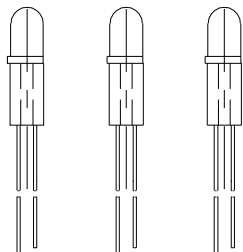
If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: $\pm 1\text{nm}$
2. Luminous Intensity: $\pm 15\%$
3. Forward Voltage: $\pm 0.1\text{V}$

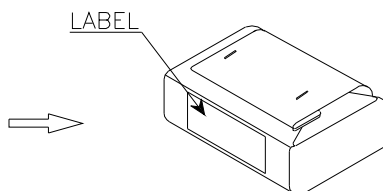
Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

WP7113BR9.52/ID



P/N: WP7113BR9.52/ID

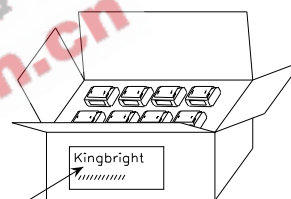


200PCS / BAG




12.8K / 9# BOX

OUTSIDE LABEL



OUTSIDE LABEL

1.6K / 1# BOX

Kingbright				
Q.C.	<table border="1"> <tr> <td>QC</td> </tr> <tr> <td>xxx-xx-2005</td> </tr> <tr> <td>PASSED</td> </tr> </table>	QC	xxx-xx-2005	PASSED
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xxx-xx-2005				
PASSED				
TYPE NO : WP7113BR9.52/ID				
QUANTITY : 200 pcs				
S/N : XXX	CODE: XX			
LOT NO : 				
RoHS Compliant				