

# Kingbright

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

Part Number: WP934PJ/3SRD

SUPER BRIGHT RED

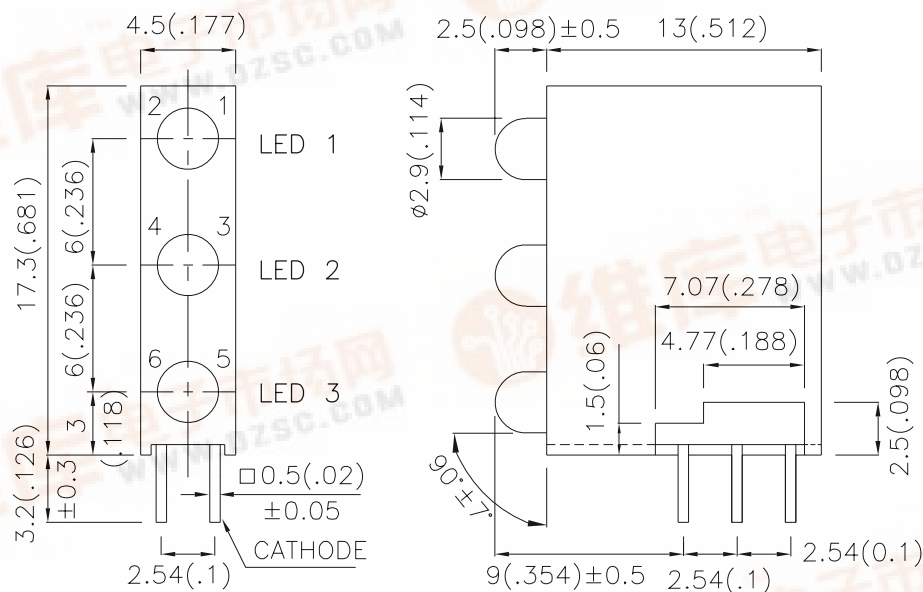
### Features

- TRI-LEVEL DESIGN.
- DIFFERENT COLOR COMBINATION AVAILABLE.
- BLACK CASE ENHANCES CONTRAST RATIO.
- HIGH RELIABILITY LIFE MEASURED IN YEARS.
- UL RATING : 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- RoHS COMPLIANT.

### Description

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

### Package Dimensions



#### 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) [2]<br>@ 20mA |      | Viewing Angle [1] |
|--------------|---------------------------|--------------|------------------------|------|-------------------|
|              |                           |              | Min.                   | Typ. | 2θ1/2             |
| WP934PJ/3SRD | SUPER BRIGHT RED (GaAlAs) | RED DIFFUSED | 110                    | 300  | 40°               |

Notes:

1. θ1/2 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           | Typ. | Max. | Units | Test Conditions           |
|--------------------|--------------------------|------------------|------|------|-------|---------------------------|
| λ <sub>peak</sub>  | Peak Wavelength          | Super Bright Red | 660  |      | nm    | I <sub>F</sub> =20mA      |
| λ <sub>D</sub> [1] | Dominant Wavelength      | Super Bright Red | 640  |      | nm    | I <sub>F</sub> =20mA      |
| Δλ <sub>1/2</sub>  | Spectral Line Half-width | Super Bright Red | 20   |      | nm    | I <sub>F</sub> =20mA      |
| C                  | Capacitance              | Super Bright Red | 45   |      | pF    | V <sub>F</sub> =0V;f=1MHz |
| V <sub>F</sub> [2] | Forward Voltage          | Super Bright Red | 1.85 | 2.5  | V     | I <sub>F</sub> =20mA      |
| I <sub>R</sub>     | Reverse Current          | Super Bright Red |      | 10   | uA    | V <sub>R</sub> = 5V       |

Notes:

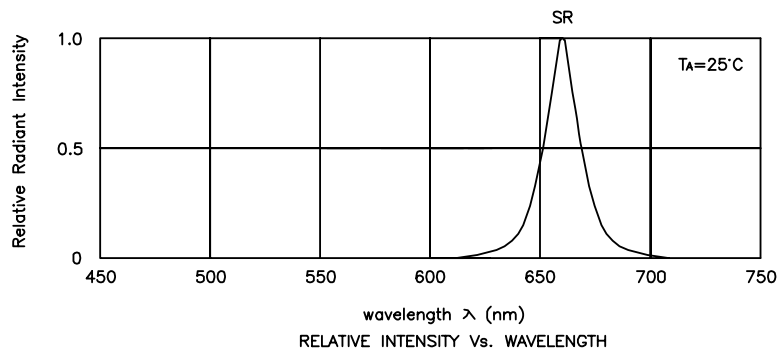
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

## Absolute Maximum Ratings at TA=25°C

| Parameter                     | Super Bright Red    | Units |
|-------------------------------|---------------------|-------|
| Power dissipation             | 75                  | mW    |
| DC Forward Current            | 30                  | mA    |
| Peak Forward Current [1]      | 155                 | 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 |       |

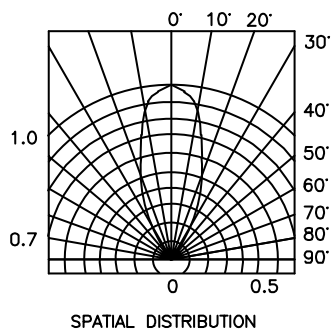
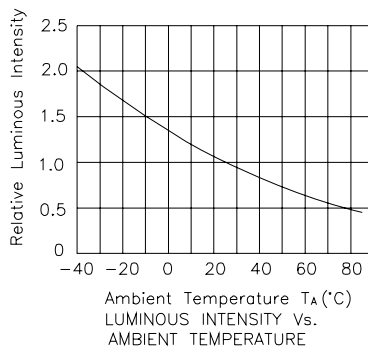
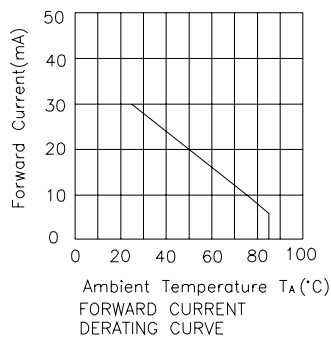
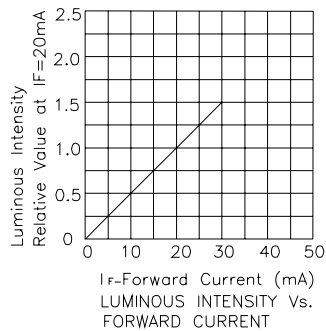
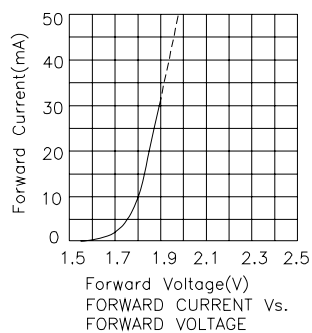
Notes:

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



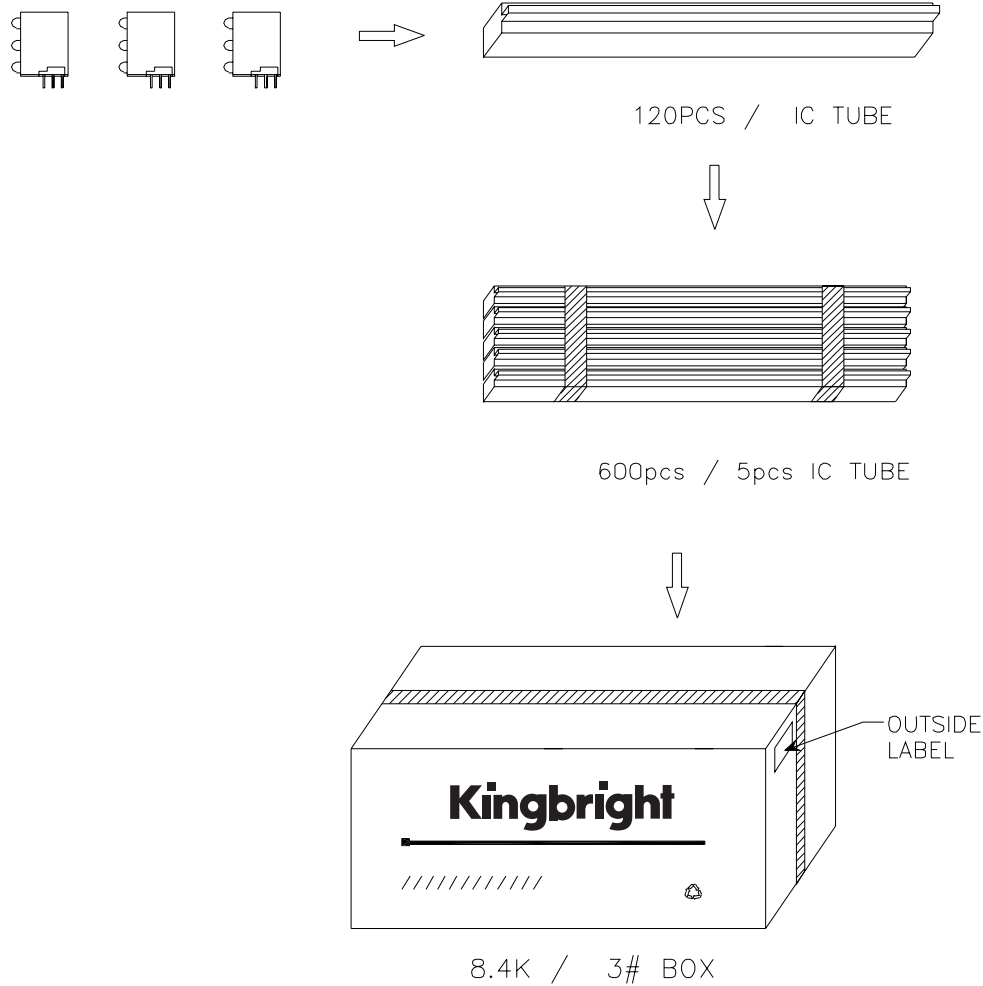
## Super Bright Red

## WP934PJ/3SRD



PACKING & LABEL SPECIFICATIONS

WP934PJ/3SRD



|                                                                                             |           |
|---------------------------------------------------------------------------------------------|-----------|
| <b>Kingbright</b>                                                                           |           |
| Q.C.                                                                                        |           |
| TYPE NO : WP934PJ/XXX                                                                       |           |
| QUANTITY : 600 pcs                                                                          |           |
| S/N : XXX                                                                                   | CODE: XXX |
| LOT NO:  |           |
| MADE IN CHINA                                                                               |           |
| RoHS Compliant                                                                              |           |

QC

xx xx: xxx

PASSED