



## Selection Guide

| Part No.     | Dice                      | Lens Type    | Iv (mcd) [2]<br>@ 20mA |      | Viewing<br>Angle [1] |
|--------------|---------------------------|--------------|------------------------|------|----------------------|
|              |                           |              | Min.                   | Typ. | 2θ1/2                |
| WP934MD/2SRD | 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 |
|--------|--------------------------|------------------|------|------|-------|-----------------|
| λpeak  | Peak Wavelength          | Super Bright Red | 660  |      | nm    | IF=20mA         |
| λD [1] | Dominant Wavelength      | Super Bright Red | 640  |      | nm    | IF=20mA         |
| Δλ1/2  | Spectral Line Half-width | Super Bright Red | 20   |      | nm    | IF=20mA         |
| C      | Capacitance              | Super Bright Red | 45   |      | pF    | VF=0V;f=1MHz    |
| VF [2] | Forward Voltage          | Super Bright Red | 1.85 | 2.5  | V     | IF=20mA         |
| IR     | Reverse Current          | Super Bright Red |      | 10   | uA    | VR = 5V         |

### Notes:

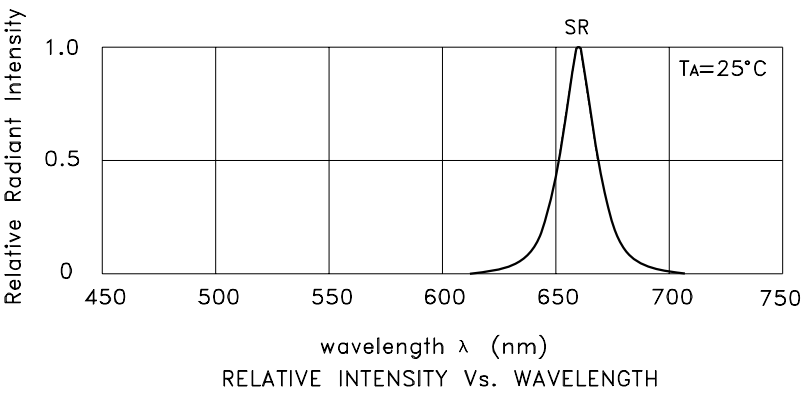
- 1.Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

## Absolute Maximum Ratings at TA=25°C

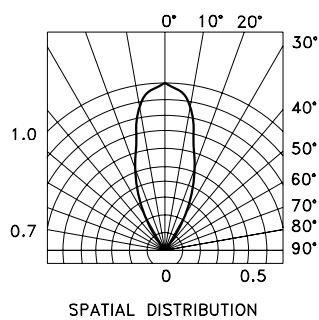
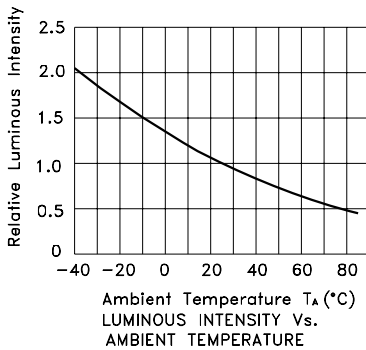
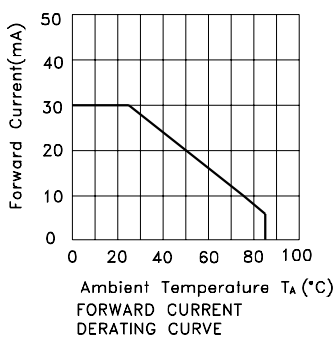
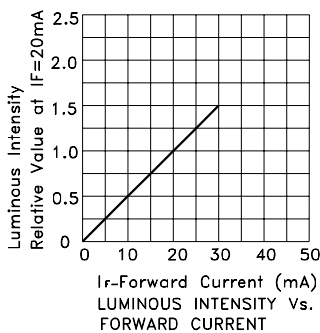
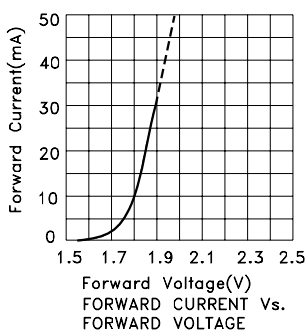
| Parameter                     | Super Bright Red    | Units |
|-------------------------------|---------------------|-------|
| Power dissipation             | 75                  | mW    |
| DC Forward Current            | 30                  | mA    |
| Peak Forward Current [1]      | 155       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

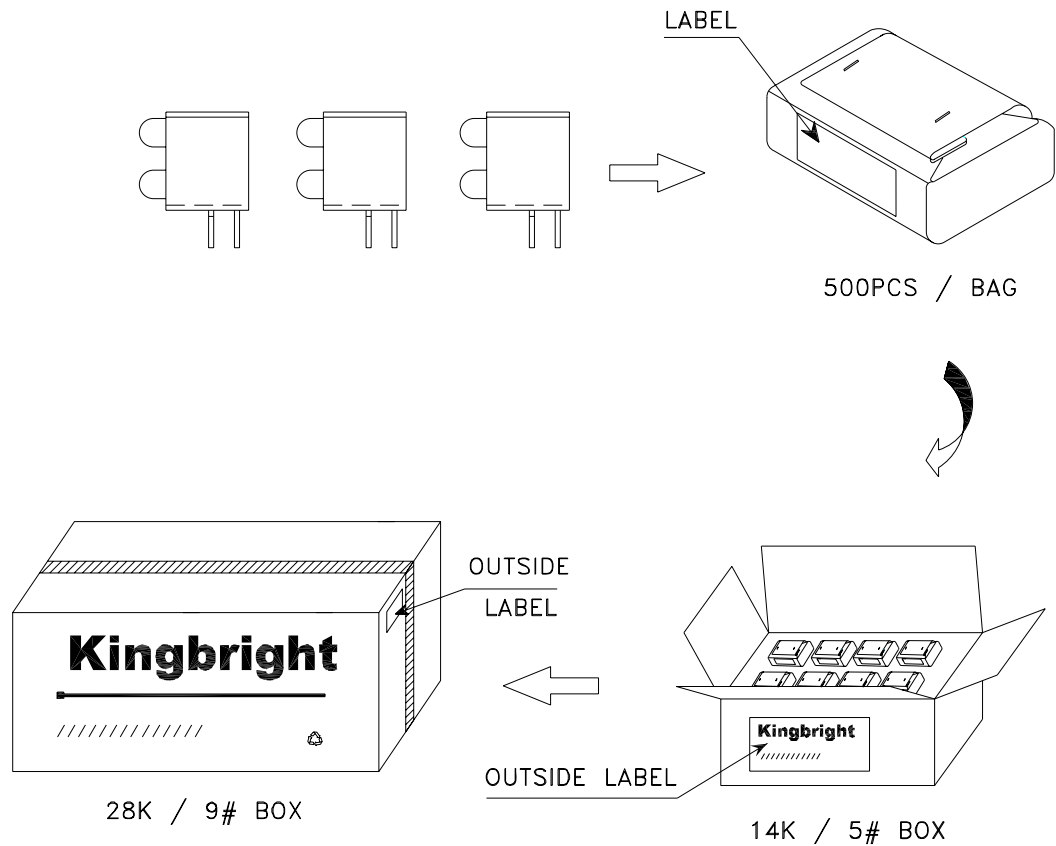


Super Bright Red WP934MD/2SRD



## PACKING & LABEL SPECIFICATIONS

WP934MD/2SRD



|                                                                                                            |          |
|------------------------------------------------------------------------------------------------------------|----------|
| <b>Kingbright</b>                                                                                          |          |
| Q.C.                                                                                                       |          |
| TYPE NO : WP934MDxxx                                                                                       |          |
| QUANTITY : 500 pcs                                                                                         |          |
| S/N : XX                                                                                                   | CODE: XX |
| LOT NO : <br>xxxxxxxxxx |          |
| RoHS Compliant                                                                                             |          |