### imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



### Contact us

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#### 9.14mm (0.36INCH) SINGLE DIGIT NUMERIC DISPLAY

Part Number: SA36-11SRWA

#### Super Bright Red

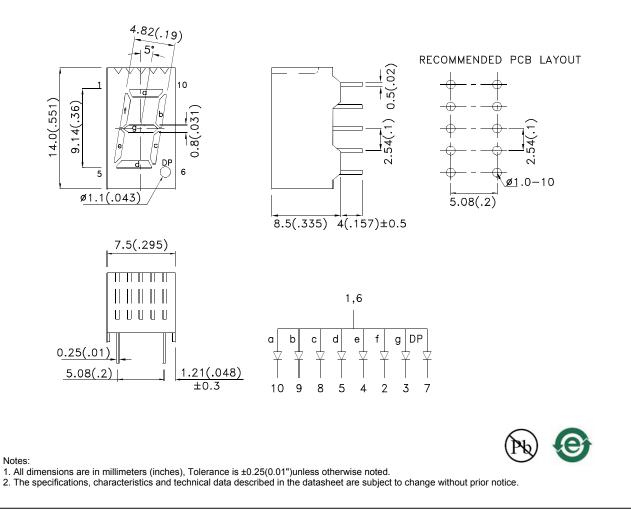
#### **Features**

- 0.36 inch digit height.
- Low current operation.
- Excellent character appearance.
- Easy mounting on P.C. boards or sockets.
- Categorized for luminous intensity.
- Mechanically rugged.
- Standard : gray face, white segment.
- RoHS compliant.

#### Description

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

#### Package Dimensions& Internal Circuit Diagram



DATE: MAR/29/2011 DRAWN: J.Yu

| Selection Guide |                           |                |                        |       |                                    |  |  |  |  |
|-----------------|---------------------------|----------------|------------------------|-------|------------------------------------|--|--|--|--|
| Part No.        | Dice                      | Lens Type      | lv (ucd) [1]<br>@ 10mA |       | Description                        |  |  |  |  |
|                 |                           |                | Min.                   | Тур.  |                                    |  |  |  |  |
| SA36-11SRWA     | Super Bright Red (GaAlAs) | White Diffused | 5600                   | 10000 | Common Anode,<br>Rt. Hand Decimal. |  |  |  |  |

Note:

1. Luminous intensity/ luminous Flux: +/-15%.

#### Electrical / Optical Characteristics at TA=25°C

| Symbol | Parameter                | Device           | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|------------------|------|------|-------|-----------------|
| λpeak  | Peak Wavelength          | Super Bright Red | 660  |      | nm    | I⊧=20mA         |
| λD [1] | Dominant Wavelength      | Super Bright Red | 640  |      | nm    | I⊧=20mA         |
| Δλ1/2  | Spectral Line Half-width | Super Bright Red | 20   |      | nm    | I⊧=20mA         |
| С      | Capacitance              | Super Bright Red | 45   |      | pF    | VF=0V;f=1MHz    |
| VF [2] | Forward Voltage          | Super Bright Red | 1.85 | 2.5  | V     | I⊧=20mA         |
| lr     | Reverse Current          | Super Bright Red |      | 10   | uA    | Vr=5V           |

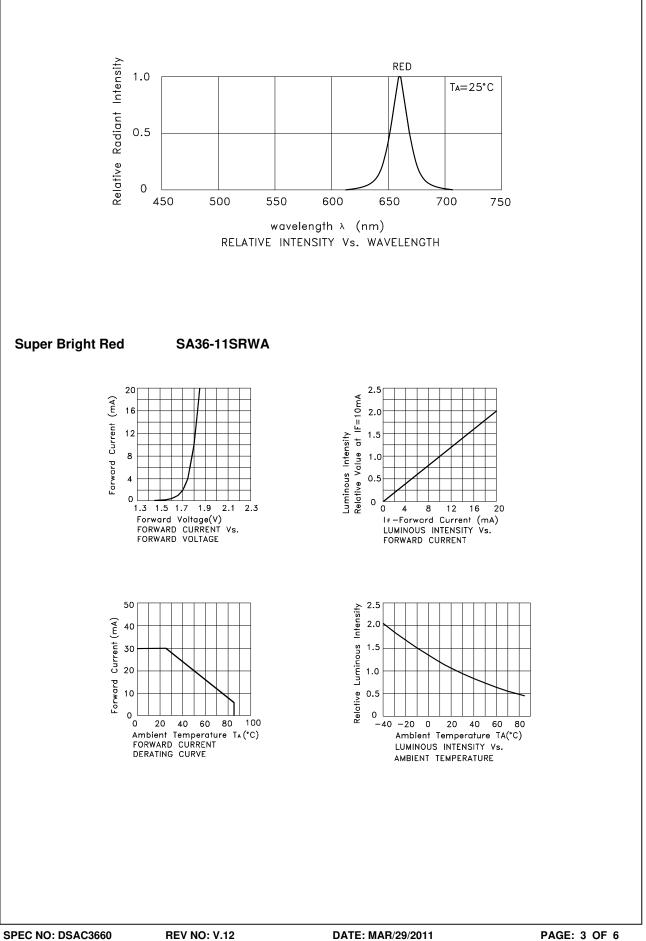
Notes:

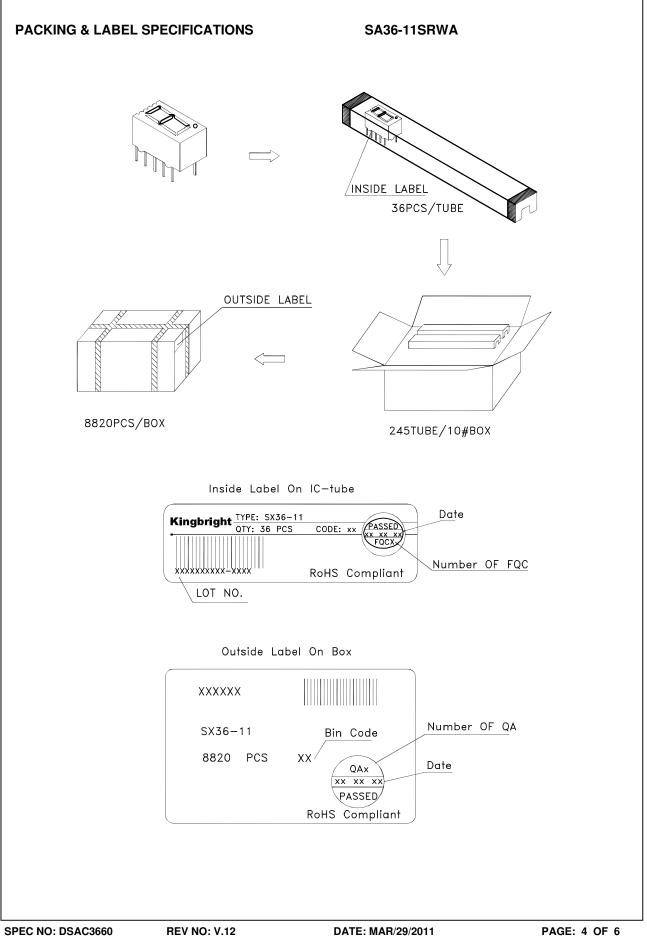
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

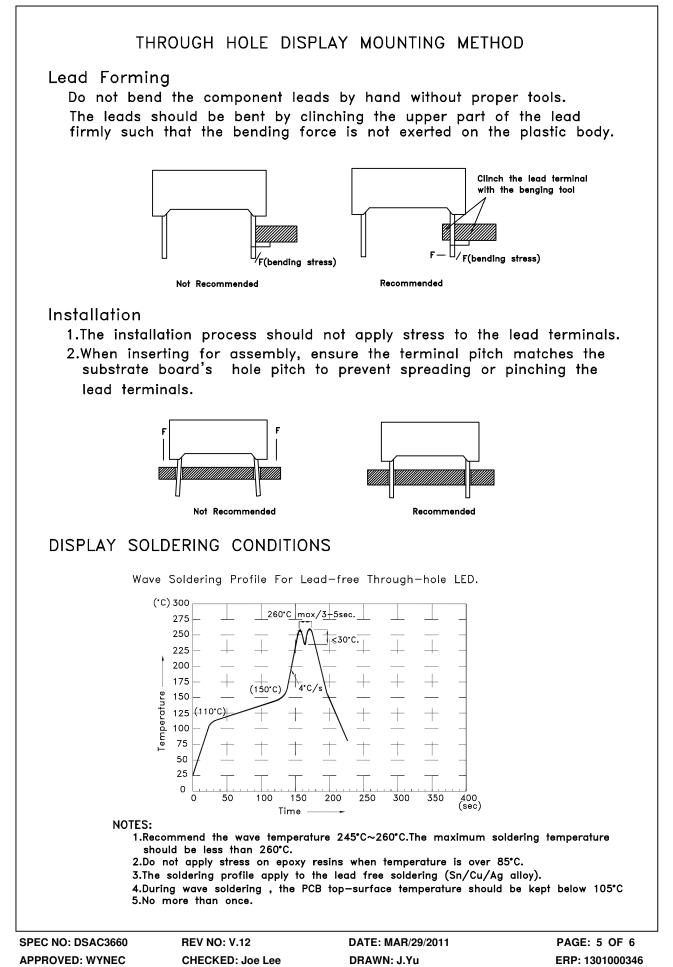
#### Absolute Maximum Ratings at TA=25°C

| 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 3-5 Seconds |       |  |  |

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







### Soldering General Notes:

- a. Through-hole displays are incompatible with reflow soldering.
- b. If components will undergo multiple soldering processes, or other processes where the components may be subjected to intense heat, please check with Kingbright for compatibility.

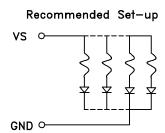
### CLEANING

1.Mild "no-clean" fluxes are recommended for use in soldering.

2. If cleaning is required, Kingbright recommends to wash components with water only. Do not use harsh organic solvents for cleaning, because they may damage the plastic parts .And the devices should not be washed for more than one minute.

### CIRCUIT DESIGN NOTES

 Protective current-limiting resistors may be necessary to operate the Displays.
LEDs mounted in parallel should each be placed in series with its own current-limiting resistor.



invalid Set-up

