8.89mmx3.81mm LED LIGHT BAR

Part Number: KB-A100SRW

Super Bright Red

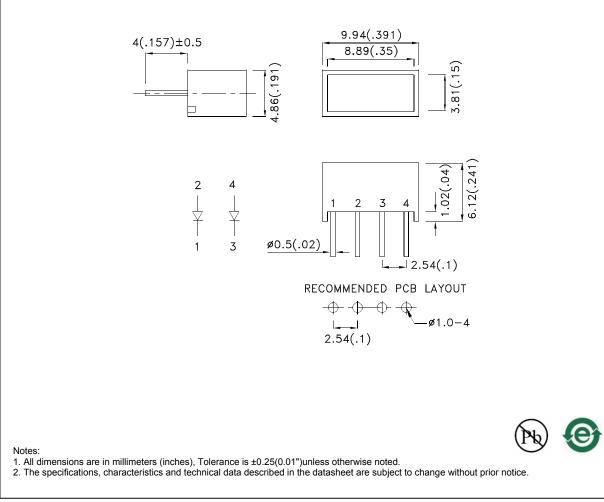
Features

- Uniform light emitting area.
- Low current operation.
- Easily mounted on P.C. boards.
- Flush mountable.
- Can be used with panels and legend mounts.
- 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



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| Selection Guide | | | | | | | | |
|-----------------|---------------------------|----------------|------------------------|------|--|--|--|--|
| Part No. | Dice | Lens Type | lv (mcd) [1] @ 20mA | | | | | |
| | | | Min. | Тур. | | | | |
| KB-A100SRW | Super Bright Red (GaAlAs) | White Diffused | 55 | 100 | | | | |

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:

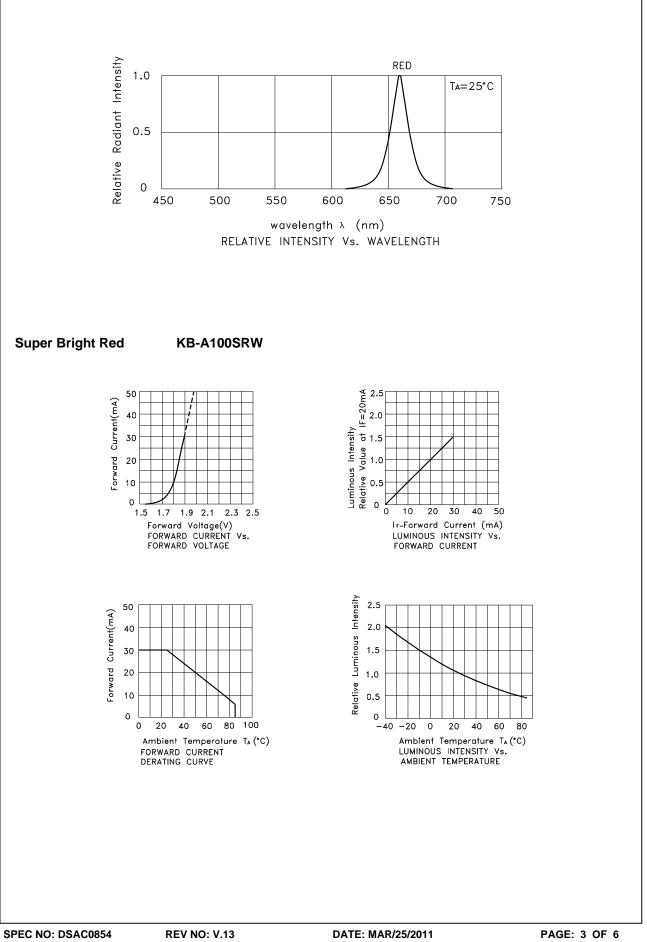
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

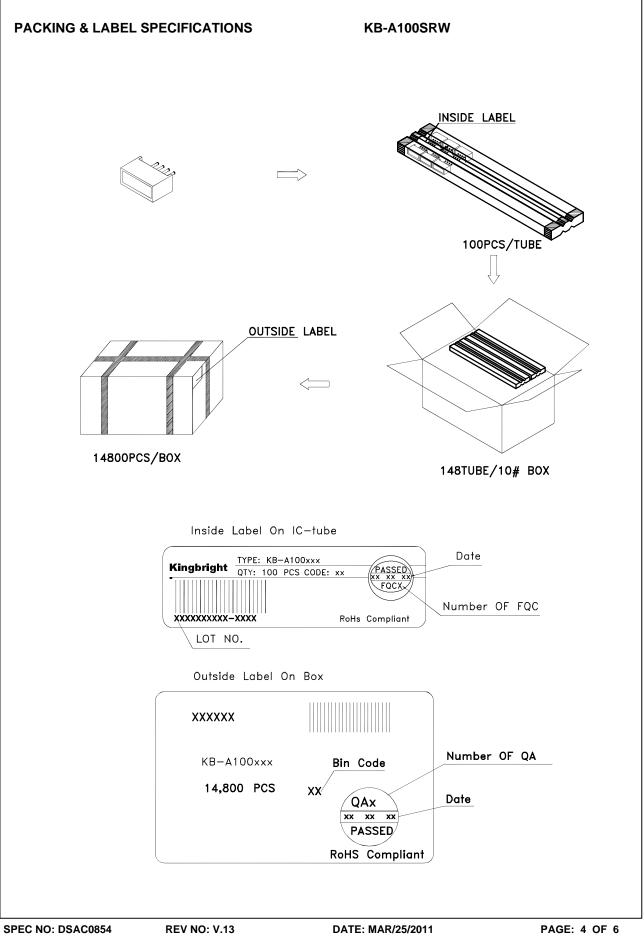
Absolute Maximum Ratings at TA=25°C

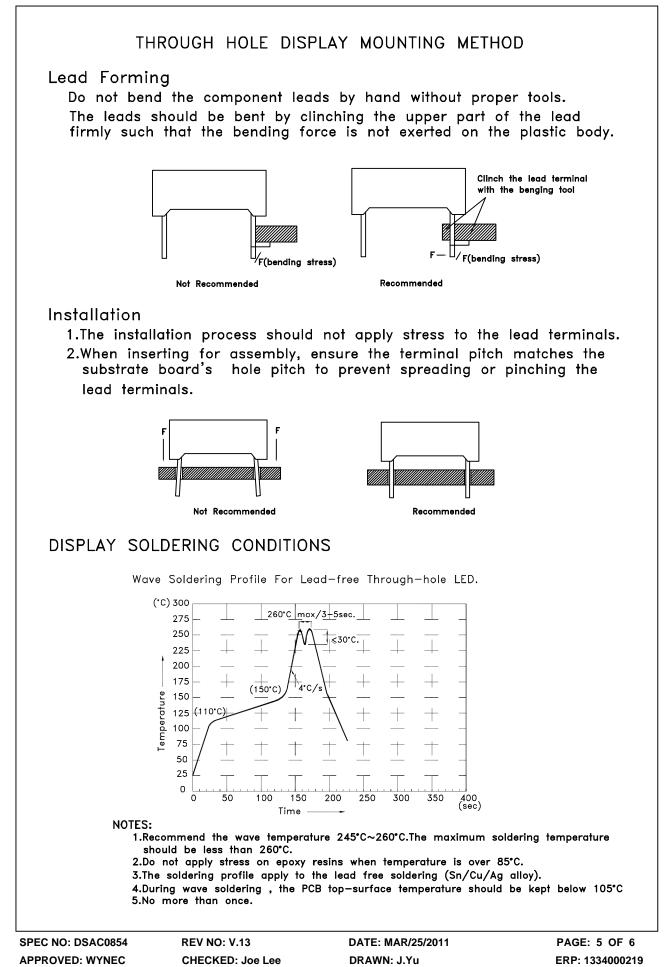
| Parameter | Super Bright Red | Units | | |
|---------------------------------|-----------------------|-------|--|--|
| Power dissipation | 75 | mW | | |
| DC Forward Current | 30 | mA | | |
| Peak Forward Current [1] | 155 | mA | | |
| Reverse Voltage | 5 | V | | |
| Operating / Storage Temperature | -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.

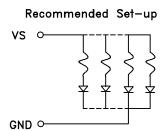
CLEANING

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

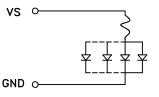
2. If cleaning is required, Kingbright recommends to wash components with water only. Do not use harsh organic solvents for cleaning, because they may damage the plastic parts .And the devices should not be washed for more than one minute.

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



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KB-A100SRW