#### 8.89mmx19.05mm LED LIGHT BAR

Part Number: KB-2685SEKW

Super Bright Orange

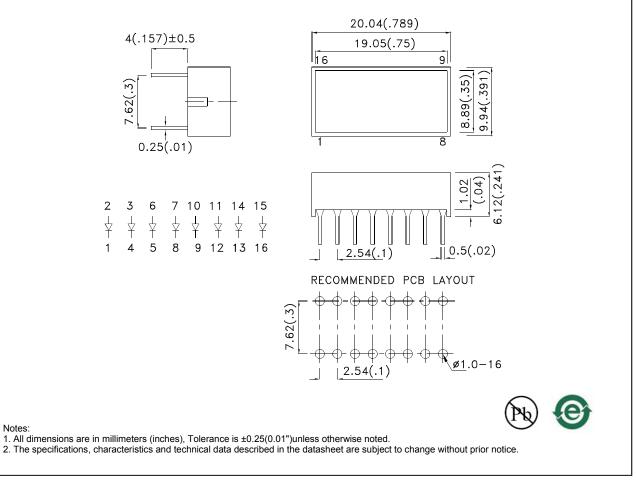
#### **Features**

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

#### Description

The Super Bright Orange device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

#### Package Dimensions& Internal Circuit Diagram



SPEC NO: DSAJ4659 APPROVED: WYNEC

DATE: DEC/30/2011 DRAWN: C.H.HAN

PAGE: 1 OF 6 ERP: 1334000609

| Selection Guide Part No. | Dice                          | Iv (mcd) [1]<br>Lens Type @ 20mA |      |      |  |  |
|--------------------------|-------------------------------|----------------------------------|------|------|--|--|
|                          |                               |                                  | Min. | Тур. |  |  |
| KB-2685SEKW              | Super Dright Orange (AlColpD) | White Diffused                   | 200  | 380  |  |  |
| ND-20035EKW              | Super Bright Orange (AlGaInP) | White Diffused                   | *80  | *140 |  |  |

Note:

Luminous intensity/ luminous Flux: +/-15%.
 \* Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

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

| Symbol | Parameter                | Device              | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|---------------------|------|------|-------|-----------------|
| λpeak  | Peak Wavelength          | Super Bright Orange | 610  |      | nm    | I⊧=20mA         |
| λD [1] | Dominant Wavelength      | Super Bright Orange | 601  |      | nm    | I⊧=20mA         |
| Δλ1/2  | Spectral Line Half-width | Super Bright Orange | 29   |      | nm    | I⊧=20mA         |
| С      | Capacitance              | Super Bright Orange | 15   |      | pF    | VF=0V;f=1MHz    |
| VF [2] | Forward Voltage          | Super Bright Orange | 2.1  | 2.5  | V     | I⊧=20mA         |
| IR     | Reverse Current          | Super Bright Orange |      | 10   | uA    | VR=5V           |

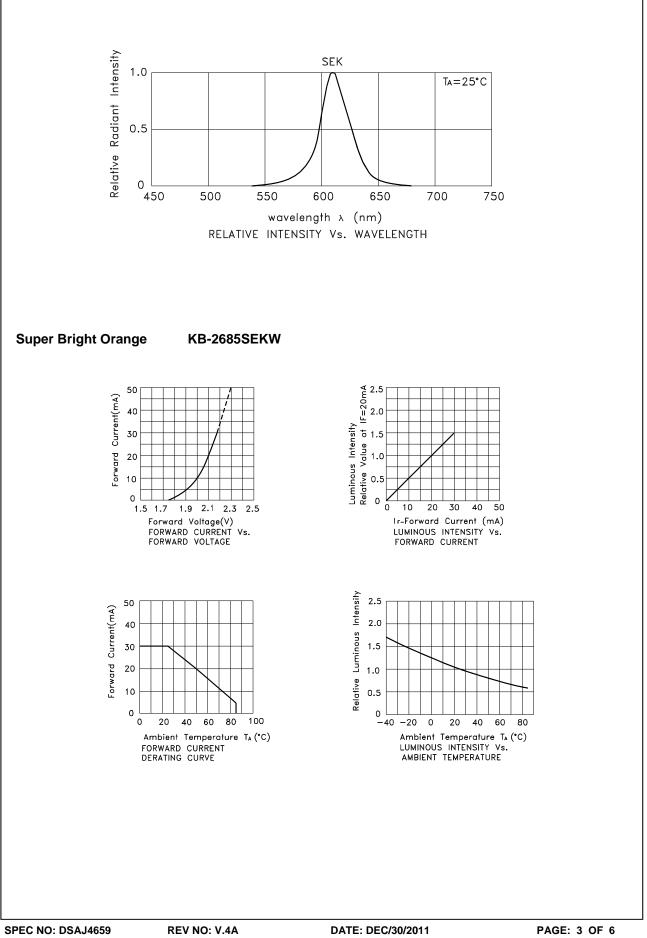
Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

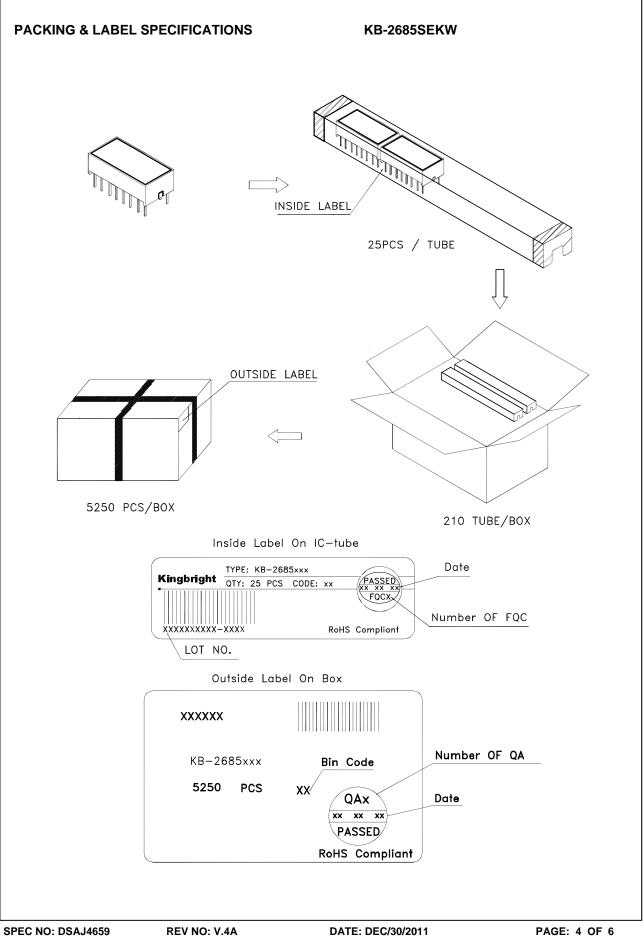
#### Absolute Maximum Ratings at TA=25°C

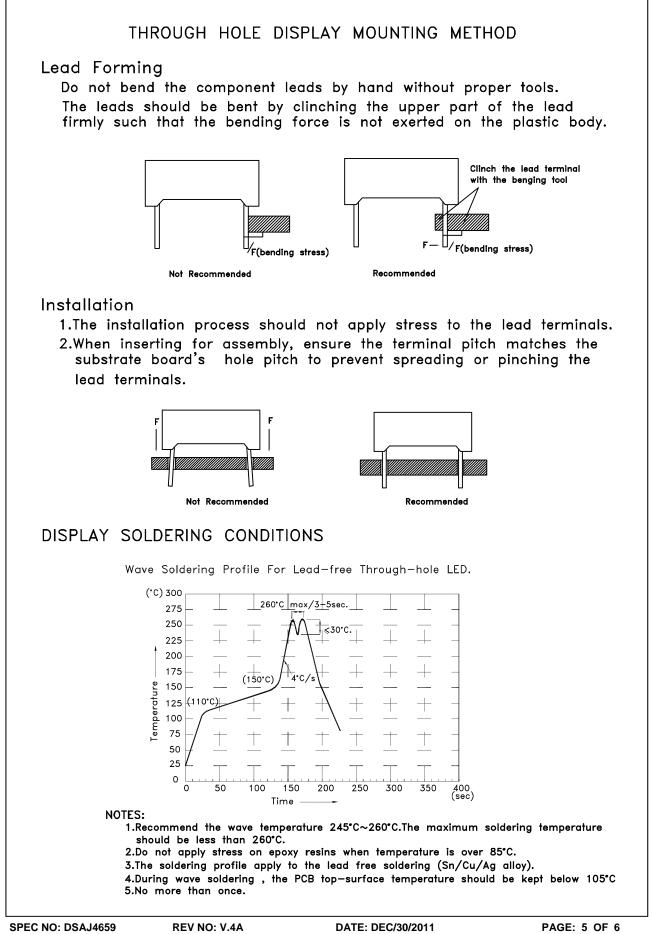
| Parameter                       | Super Bright Orange            |    |  |
|---------------------------------|--------------------------------|----|--|
| Power dissipation               | 75                             | mW |  |
| DC Forward Current              | 30                             | mA |  |
| Peak Forward Current [1]        | 195                            | mA |  |
| Reverse Voltage                 | 5                              | V  |  |
| Operating / Storage Temperature | age 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.







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### 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.

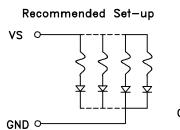
### CLEANING

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

