20.3mm (0.8INCH) DUAL DIGIT NUMERIC DISPLAY

Part Number: DA08-11SYKWA

Super Bright Yellow

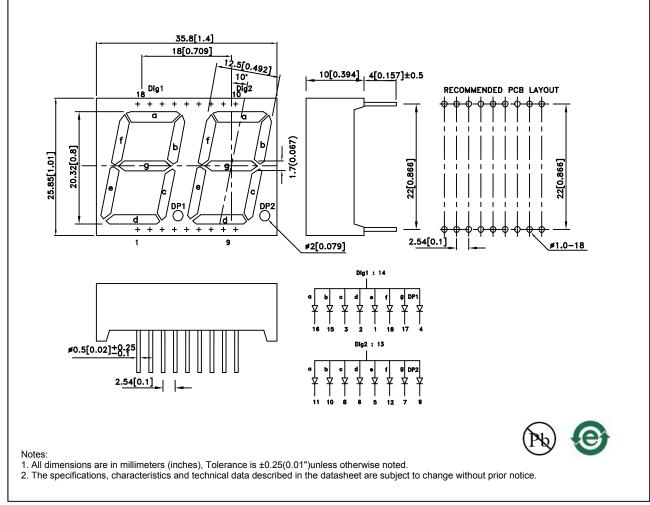
Features

- 0.8 inch digit height.
- Excellent character appearance.
- Easy mounting on P.C. boards or sockets.
- Two digit package simplifies alignments & assembly.
- Mechanically rugged.
- Standard : gray face, white segment.
- RoHS compliant.

Description

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

Package Dimensions& Internal Circuit Diagram



SPEC NO: DSAC8921 APPROVED: WYNEC REV NO: V.5A CHECKED: Joe Lee DATE: MAY/08/2013 DRAWN: F.Cui PAGE: 1 OF 6 ERP: 1302001069

| Selection Guide | | | | | | | | | |
|-----------------|-------------------------------|----------------|------------------------|--------|------------------------------------|--|--|--|--|
| Part No. | Dice | Lens Type | lv (ucd) [1] @ 10mA | | Description | | | | |
| | | | Min. | Тур. | - | | | | |
| DA08-11SYKWA | Super Bright Yellow (AlGaInP) | White Diffused | 52000 | 94000 | Common Anode ,Rt. Hand Decimal. | | | | |
| | | | *14000 | *30000 | | | | | |

Notes:

1. 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 Yellow | 590 | | nm | I⊧=20mA |
| λD [1] | Dominant Wavelength | Super Bright Yellow | 590 | | nm | I⊧=20mA |
| Δλ1/2 | Spectral Line Half-width | Super Bright Yellow | 20 | | nm | I⊧=20mA |
| С | Capacitance | Super Bright Yellow | 20 | | pF | VF=0V;f=1MHz |
| VF [2] | Forward Voltage | Super Bright Yellow | 2.0 | 2.5 | V | l⊧=20mA |
| lr | Reverse Current | Super Bright Yellow | | 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.

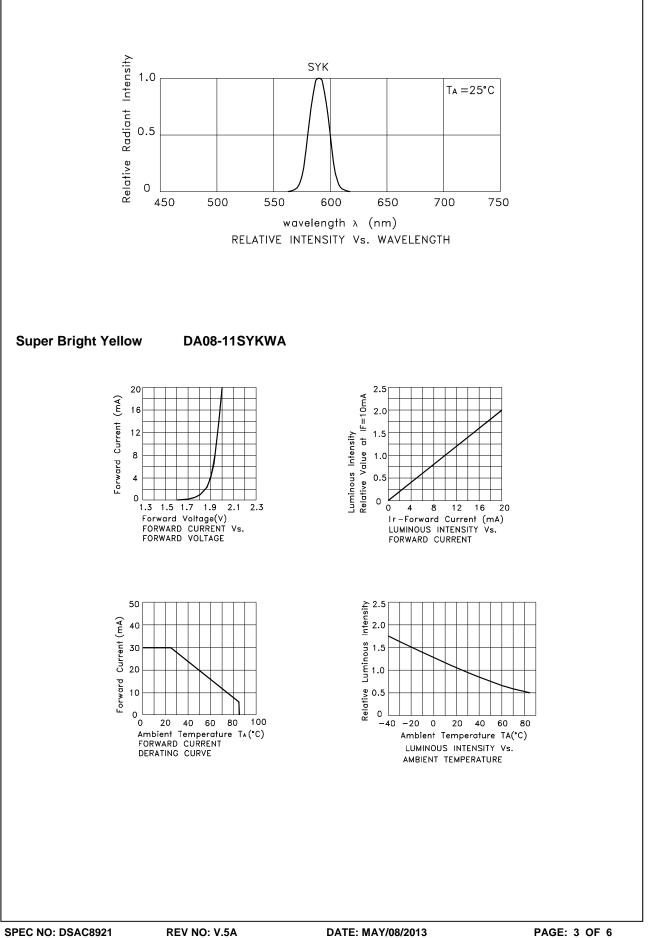
Absolute Maximum Ratings at TA=25°C

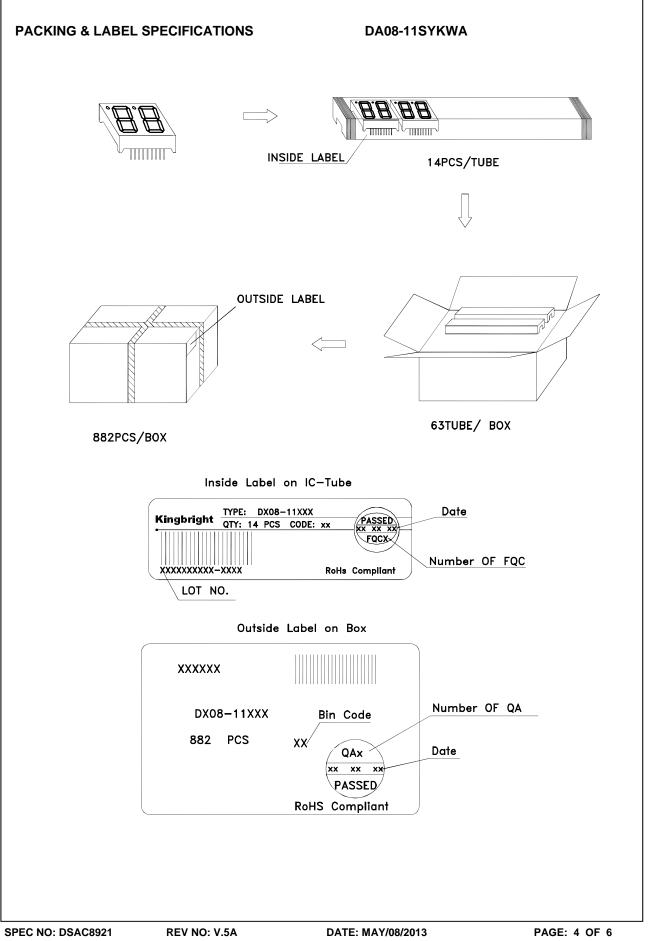
| Parameter | Super Bright Yellow | Units | | |
|---------------------------------|-----------------------|-------|--|--|
| Power dissipation | 75 | mW | | |
| DC Forward Current | 30 | mA | | |
| Peak Forward Current [1] | 175 | mA | | |
| Reverse Voltage | 5 | V | | |
| Operating / Storage Temperature | -40°C To +85°C | | | |
| Lead Solder Temperature[2] | 260°C For 3-5 Seconds | | | |

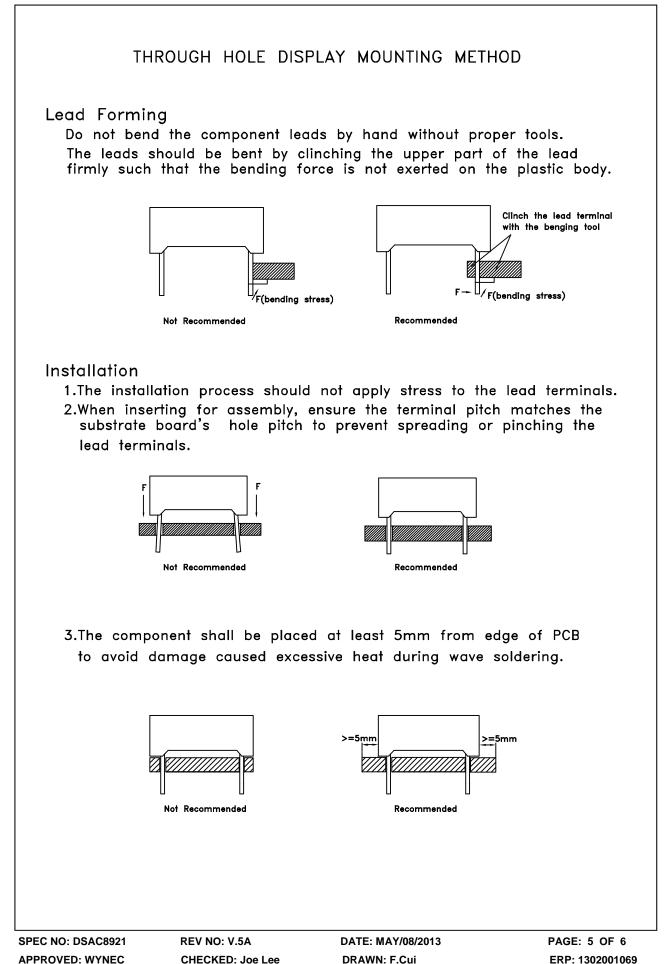
Notes:

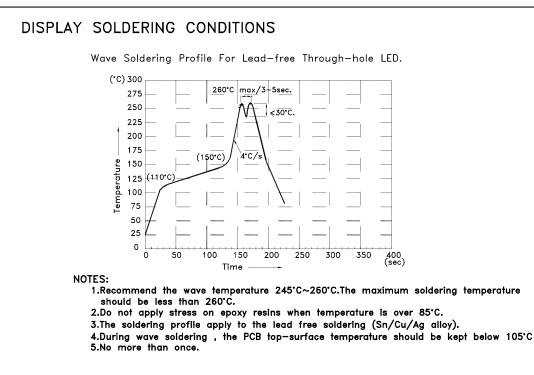
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.









Soldering General Notes:

- 1. Through-hole displays are incompatible with reflow soldering.
- 2. 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.

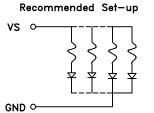
CLEANING

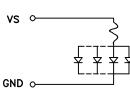
1.Mild "no-clean" fluxes are recommended for use in soldering.

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

1.Protective current-limiting resistors may be necessary to operate the Displays.2.LEDs mounted in parallel should each be placed in series with its own current-limiting resistor.





invalid Set-up

Detailed application notes are listed on our website. http://www.kingbright.com/application_notes

DATE: MAY/08/2013 DRAWN: F.Cui