### 8.89mmx19.05mm LED LIGHT BAR

Part Number: KB-2785SYKW Su

Super Bright Yellow

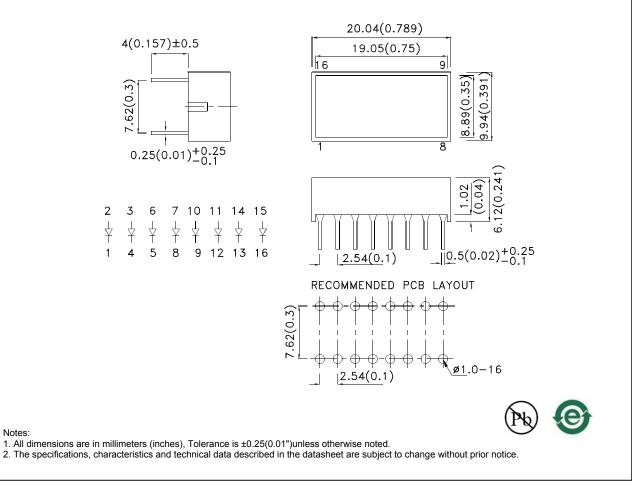
#### Features

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

#### Package Dimensions& Internal Circuit Diagram



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Selection Guide	Dice	Lens Type Iv (mcd) [1] @ 20mA				
			Min.	Тур.		
KB-2785SYKW		White Diffused	200	360		
KB-278551KW	Super Bright Yellow (AlGaInP)		*55	*96		

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	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Yellow	590		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	20		nm	IF=20mA
С	Capacitance	Super Bright Yellow	20		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Yellow	2.0	2.5	V	I⊧=20mA
lr	Reverse Current	Super Bright Yellow		10	uA	Vr=5V

Notes:

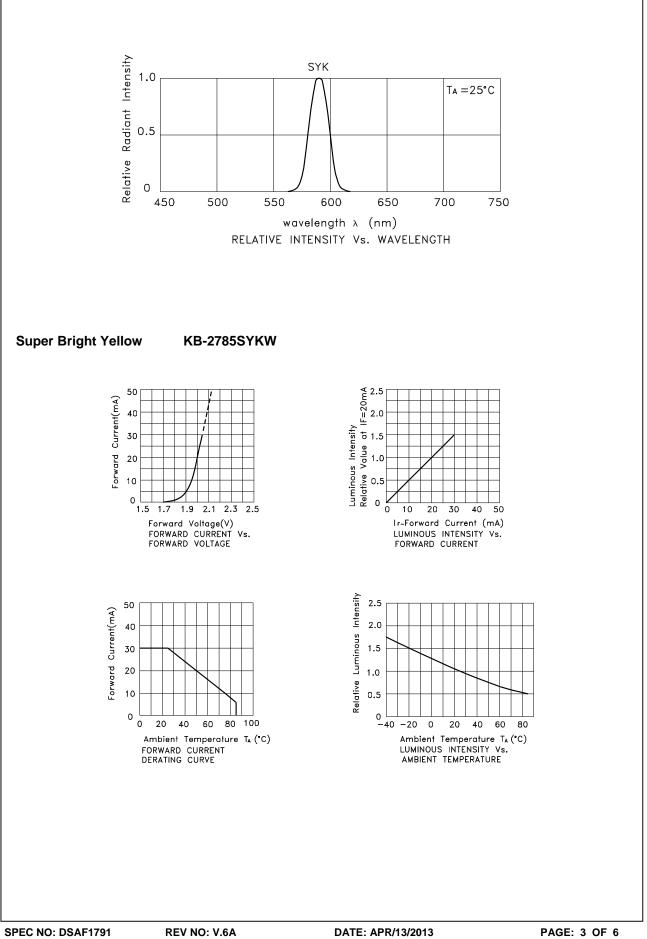
Notes.
Wavelength: +/-1nm.
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

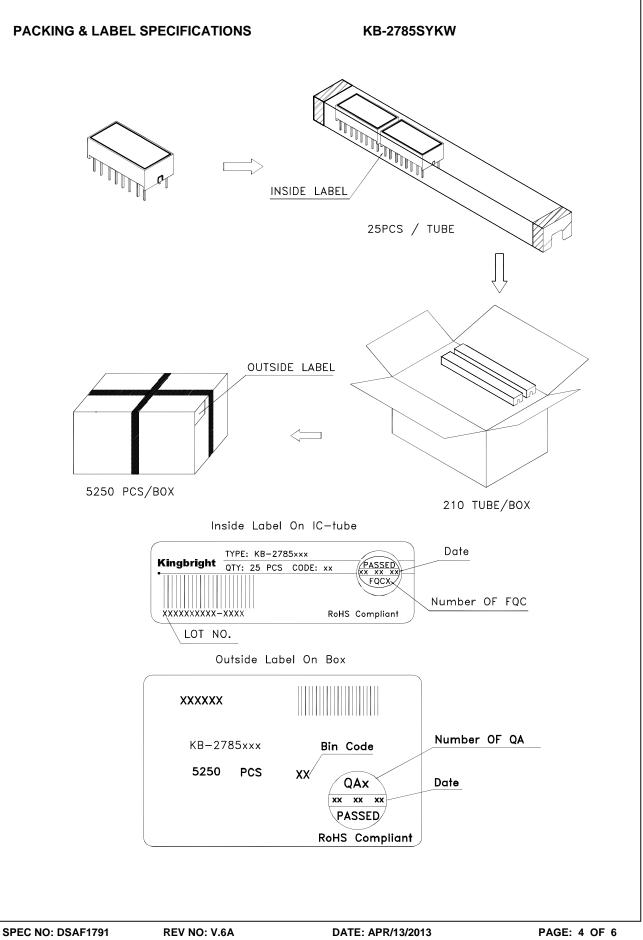
#### Absolute Maximum Ratings at TA=25°C

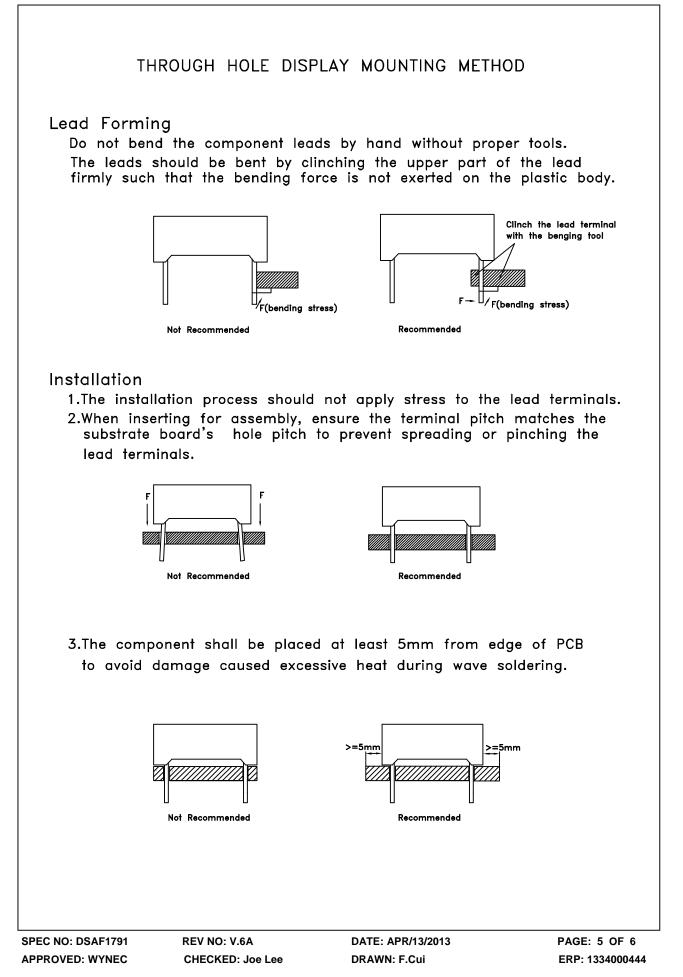
Parameter	Super Bright Yellow	
Power dissipation	75	mW
DC Forward Current	30	mA
Peak Forward Current [1]	175	mA
Reverse Voltage	5	V
Operating / Storage Temperature	ng / Storage Temperature -40°C To +85°C	
Lead Solder Temperature[2]	260°C For 3-5 Seconds	

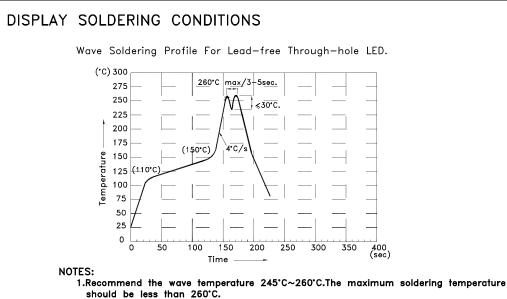
Notes:

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









2.Do not apply stress on epoxy resins when temperature is over 85°C.

3.The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy). 4.During wave soldering , the PCB top-surface temperature should be kept below 105°C

5.No more than once.

### 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.

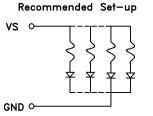
### CLEANING

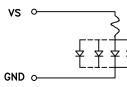
1.Mild "no-clean" fluxes are recommended for use in soldering.

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

 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

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

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