#### 14.2mm (0.56INCH) SINGLE DIGIT NUMERIC DISPLAY

Part Number: SC56-21SYKWA

Super Bright Yellow

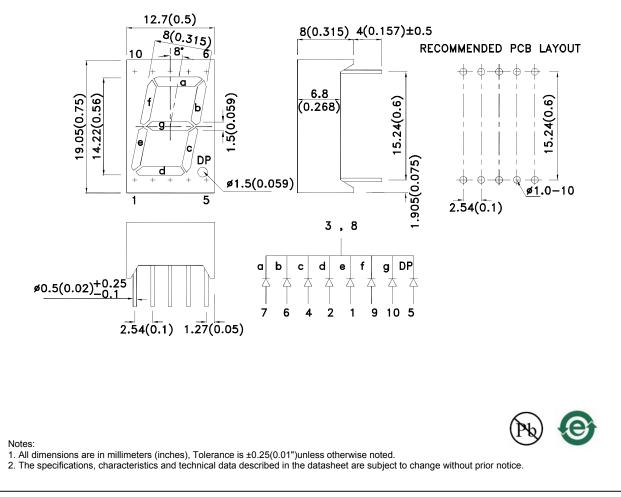
#### Features

- 0.56 inch digit height.
- Low current operation.
- Excellent character appearance.
- Easy mounting on P.C. boards or sockets.
- 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: DSAM8432 APPROVED: WYNEC REV NO: V.1A CHECKED: Joe Lee DATE: JAN/26/2013 DRAWN: Q.M.Chen PAGE: 1 OF 6 ERP: 1301002653

Selection Guide					
Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	
SC56-21SYKWA	Super Bright Yellow (AlGaInP)	White Diffused	52000	160000	. Common Cathode, Rt.Hand Decimal.
			*21000	*48000	

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	IF=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	IF=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.

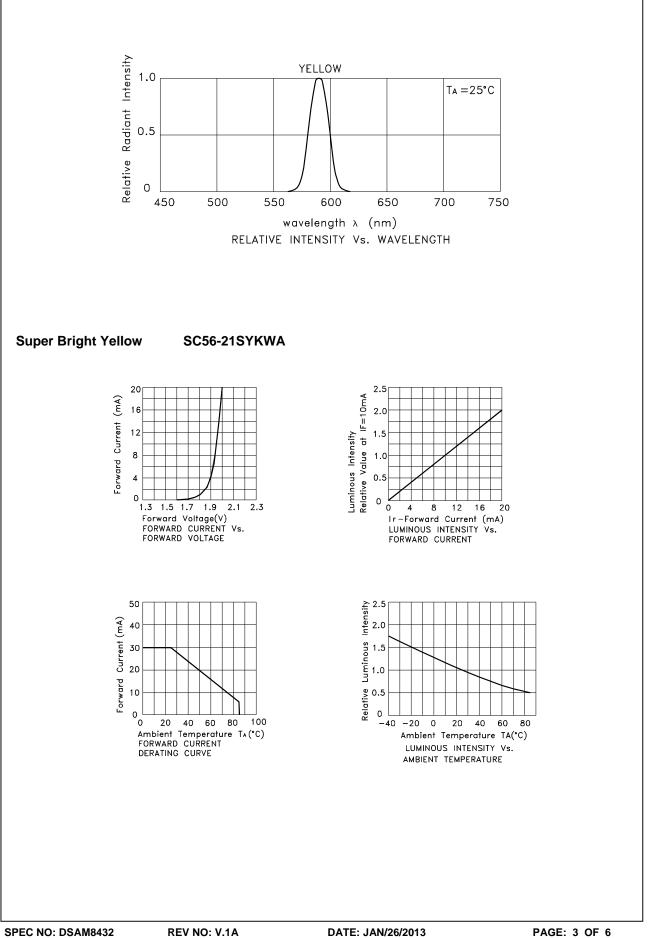
#### Absolute Maximum Ratings at TA=25°C

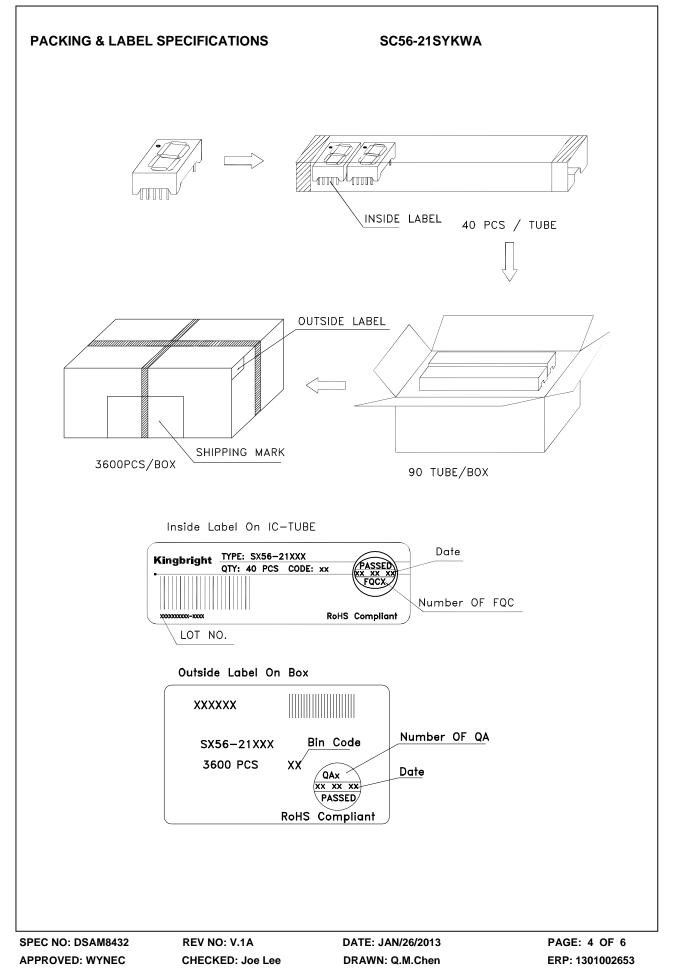
Parameter	Super Bright Yellow	Units		
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	175	mA		
Reverse Voltage	5	V		
Operating / Storage Temperature	-40°C To +85°C			
Lead Solder Temperature[2]	260°C For 3-5 Seconds			

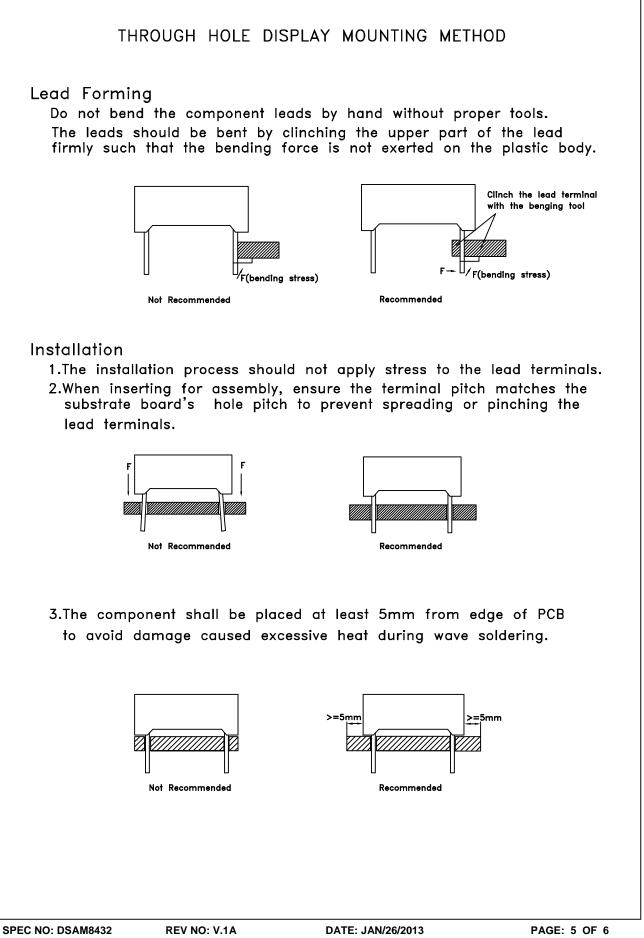
Notes:

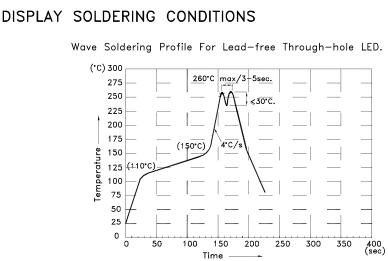
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.









#### NOTES:

Recommend the wave temperature 245°C~260°C. The maximum soldering temperature should be less than 260°C.
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.

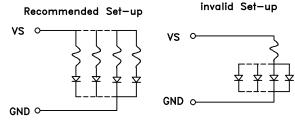
### CLEANING

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.



All design applications should refer to Kingbright application notes available at <a href="http://www.KingbrightUSA.com/ApplicationNotes">http://www.KingbrightUSA.com/ApplicationNotes</a>

DATE: JAN/26/2013 DRAWN: Q.M.Chen

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