### SURFACE MOUNT DISPLAY

Part Number: KCSA56-107 Si

Super Bright Yellow

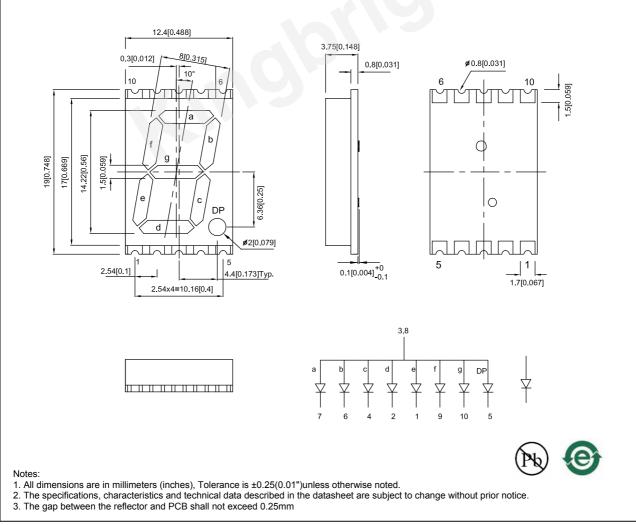
#### Features

- 0.56 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Gray face, white segment.
- Package: 400pcs/ reel.
- Moisture sensitivity level : level 2a.
- 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: DSAF9108 APPROVED: Wynec REV NO: V.10A CHECKED: Joe Lee DATE: JUL/06/2016 DRAWN: W.Q.Zhong PAGE: 1 OF 5 ERP: 1351000399

Selection Guide									
Part No.	Emitting Color (Material)	Lens Type	lv (ucd) [1] @ 10mA		Description				
			Min.	Тур.					
KCSA56-107	Super Bright Yellow (AlGaInP)	White Diffused	31000	76000	Common Anode,Rt. Hand Decimal.				
			*14000	*29000					

Notes:

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

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

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Yellow	590		nm	I⊧=10mA
λD [1]	Dominant Wavelength	Super Bright Yellow	590		nm	IF=10mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	20		nm	I⊧=10mA
С	Capacitance	Super Bright Yellow	20		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Yellow	1.95	2.5	V	I⊧=10mA
lr	Reverse Current	Super Bright Yellow		10	uA	VR=5V

Notes:

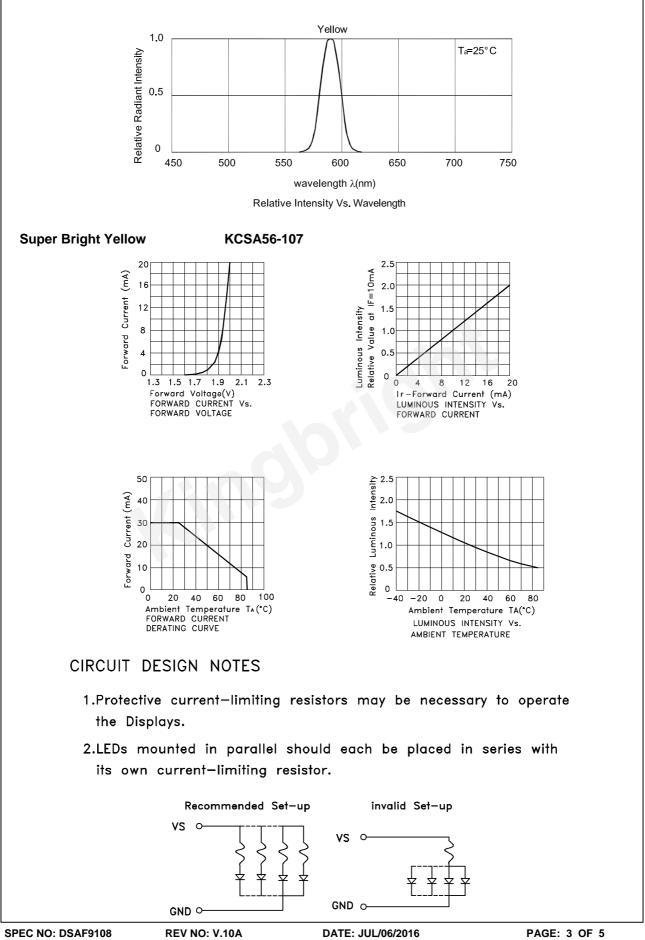
Wavelength: +/-1nm.
 Forward Voltage: +/-0.1V.
 Wavelength value is traceable to CIE127-2007 standards.

Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

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

Parameter	Values	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		

Notes:
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

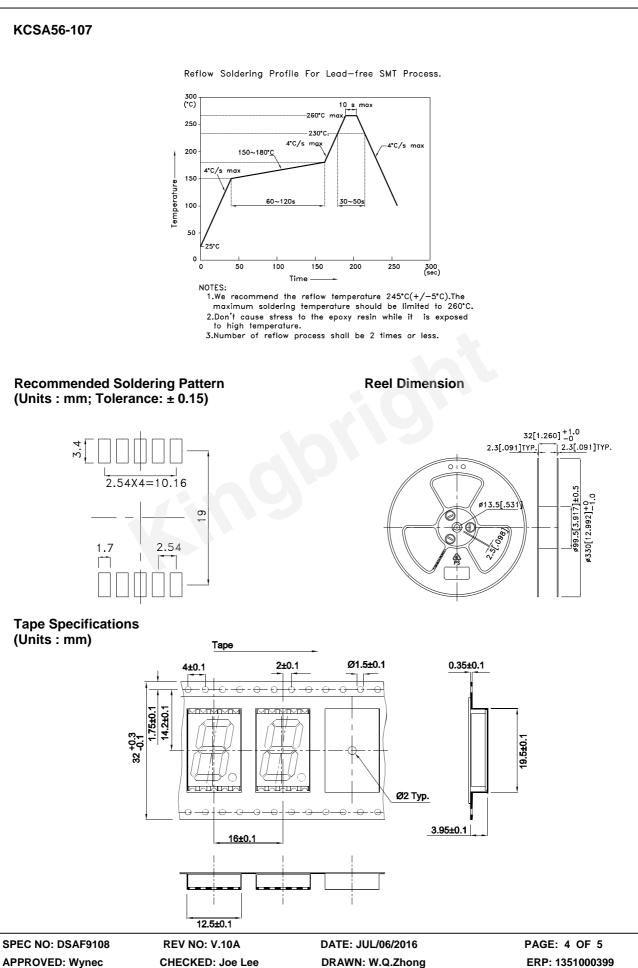


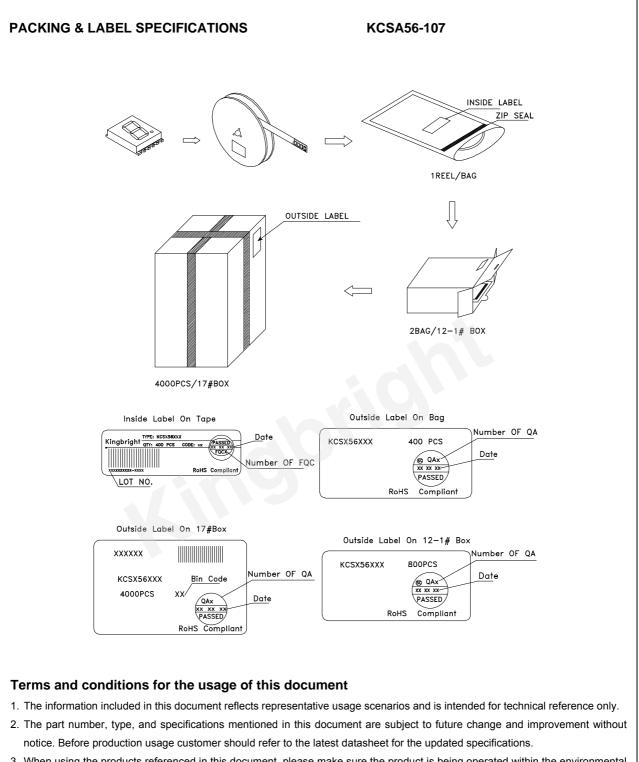
APPROVED: Wynec

CHECKED: Joe Lee

DRAWN: W.Q.Zhong

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- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
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