9.14mm (0.36INCH) SINGLE DIGIT NUMERIC DISPLAY

Part Number: SA36-11SEKWA

Super Bright Orange

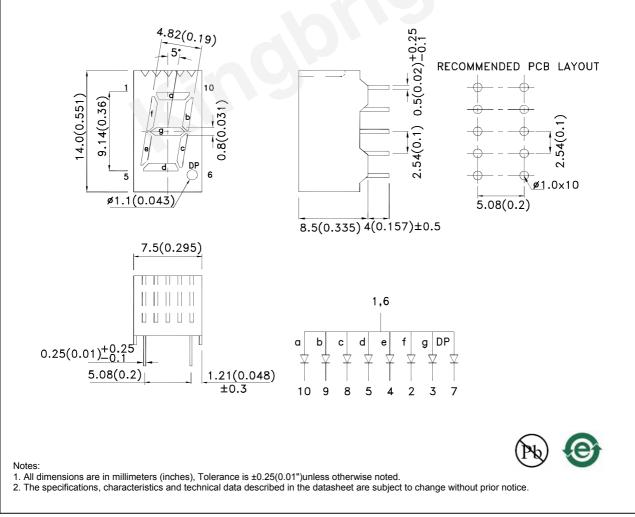
Features

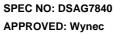
- 0.36 inch digit height.
- Low current operation.
- Excellent character appearance.
- Easy mounting on P.C. boards or sockets.
- Categorized for luminous intensity.
- Mechanically rugged.
- Standard : gray face, white segment.
- RoHS compliant.

Description

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

Package Dimensions& Internal Circuit Diagram





REV NO: V.9A CHECKED: Joe Lee DATE: JUN/18/2016 DRAWN: W.Q.Zhong PAGE: 1 OF 6 ERP: 1301002368

Selection Guide	1		h. (J) [4]	
Part No.	Emitting Color (Material)	Lens Type	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	
SA36-11SEKWA	Super Bright Orange (AlGaInP)	White Diffused	21000	45000	Common Anode, Rt. Hand Decimal.
			*5600	*14000	

Notes:

1.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 Orange	610		nm	I⊧=10mA
λD [1]	Dominant Wavelength	Super Bright Orange	601		nm	I⊧=10mA
Δλ1/2	Spectral Line Half-width	Super Bright Orange	29		nm	I⊧=10mA
С	Capacitance	Super Bright Orange	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Orange	2	2.5	V	I⊧=10mA
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 CIE127-2007 standards.

4. 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

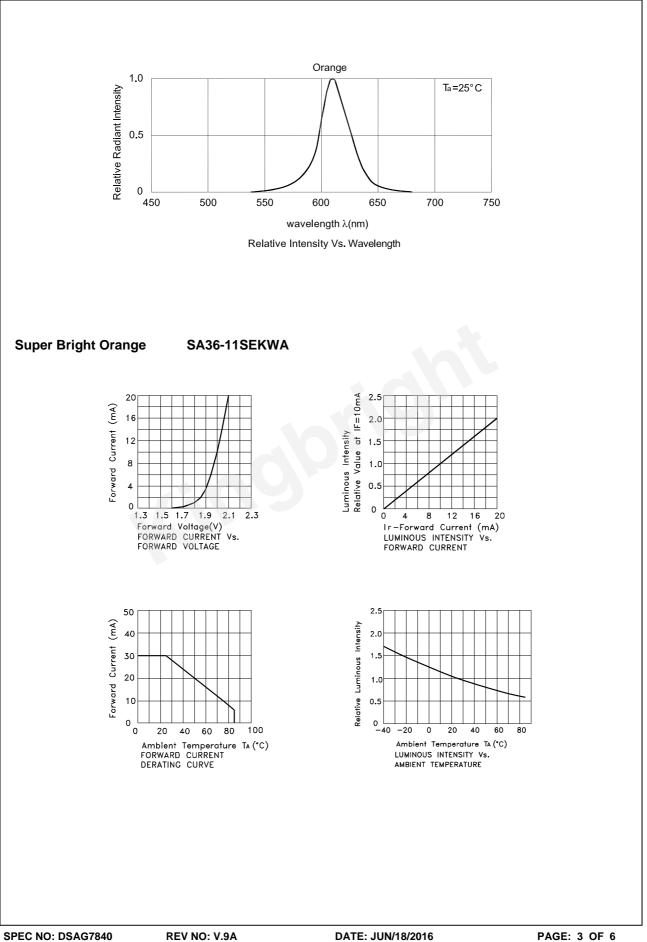
Parameter	Values	Units		
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	195	mA		
Electrostatic Discharge Threshold (HBM)	3000	V		
Reverse Voltage	5	V		
Operating / Storage Temperature	-40°C To +85°C			
Lead Solder Temperature[2] 260°C For 3-5 Seconds				

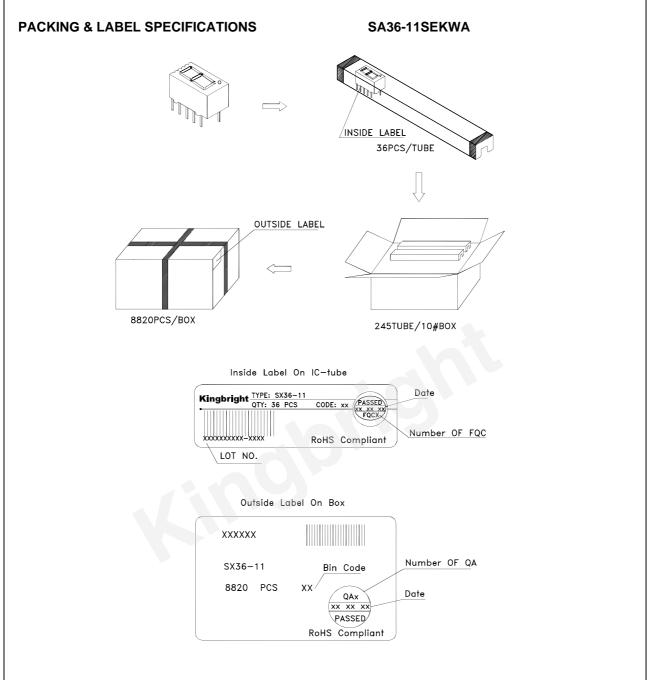
Notes:

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

2. 2mm below package base.

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.

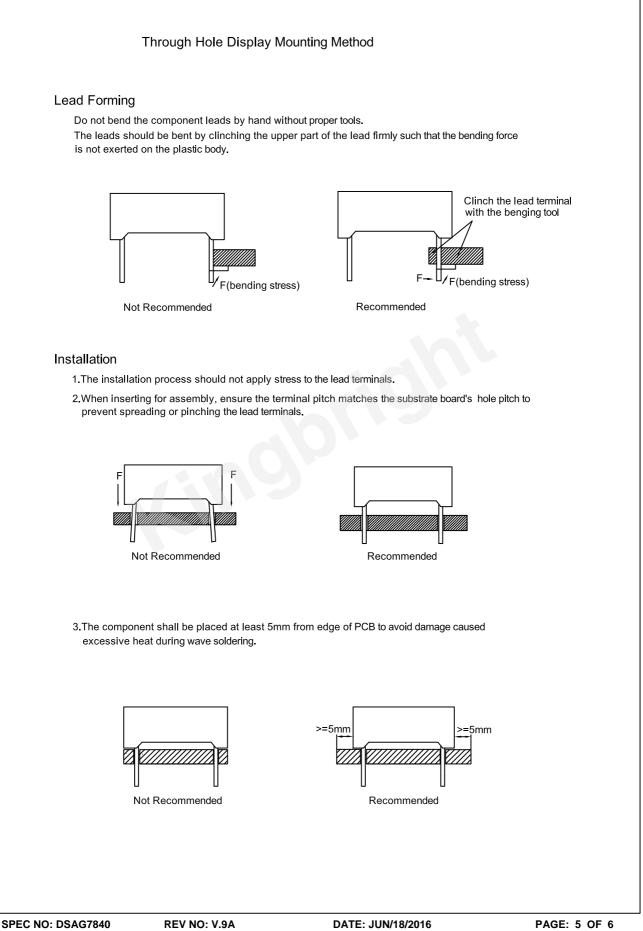




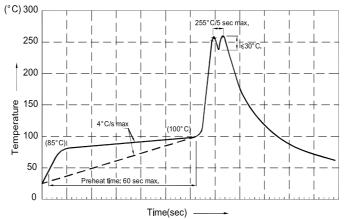
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Recommended Wave Soldering Profiles:



Notes:

- 1.Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C
- 2.Peak wave soldering temperature between 245° C ~ 255° C for 3 sec (5 sec max).
- 3.Do not apply stress to the epoxy resin while the temperature is above 85°C.
- 4. Fixtures should not incur stress on the component when mounting and during soldering process.
- 5.SAC 305 solder alloy is recommended.
- 6.No more than one wave soldering pass.
- 7 During wave soldering, the PCB top-surface temperature should be kept below 105°C.

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.

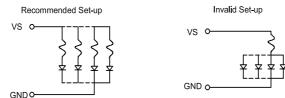
Cleaning

- 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 .
- 3. The cleaning process should take place at room temperature and the devices should not be washed for more than one minute.
- 4.When water is used in the cleaning process, immediately remove excess moisture from the component with forced-air drying afterwards.

Circuit Design Notes

1. Protective current-limiting resistors may be necessary to operate the LEDs within the specified range.

2.LEDs mounted in parallel should each be placed in series with its own current-limiting resistor.



- The driving circuit should be designed to protect the LED against reverse voltages and transient voltage spikes when the circuit is powered up or shut down.
- 4. The safe operating current should be chosen after considering the maximum ambient temperature of the operating environment.
- 5. Prolonged reverse bias should be avoided, as it could cause metal migration, leading to an increase in leakage current or causing a short circuit.

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