10.92mm (0.43INCH) SINGLE DIGIT NUMERIC DISPLAY

Part Number: SC43-11EWA

High Efficiency Red

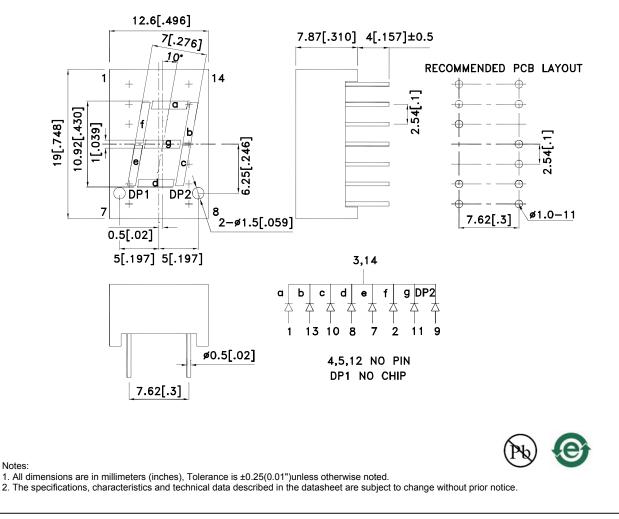
Features

- 0.43 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 High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

Package Dimensions& Internal Circuit Diagram



DATE: JUL/04/2012 DRAWN: C.H.Han

ľ	Selection Guide					
	Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description
				Min.	Тур.	-
		High Efficiency Red (GaAsP/GaP)	White Diffused	5600	12000	Common Cathode, Rt. Hand Decimal.
	SC43-11EWA			*1400	*3400	

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	Ту	′p.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627	*627		nm	I⊧=20mA
λD [1]	Dominant Wavelength	High Efficiency Red	625	*617		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	4	5		nm	I⊧=20mA
С	Capacitance	High Efficiency Red	1	5		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	High Efficiency Red	2.	.0	2.5	V	IF=20mA
IR	Reverse Current	High Efficiency Red			10	uA	VR=5V

Notes:

1.Wavelength: +/-1nm.

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

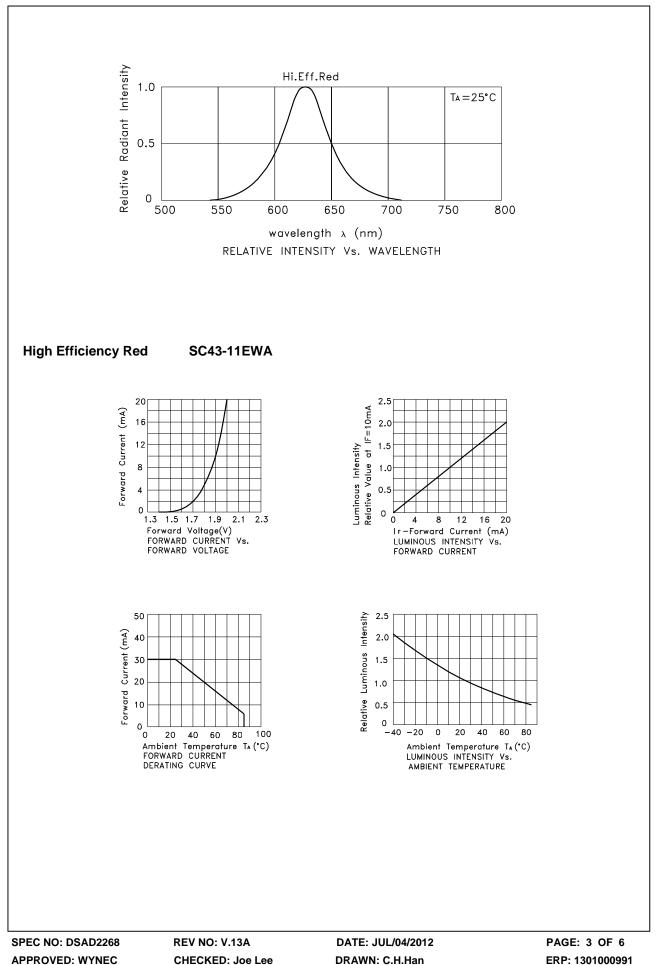
Absolute Maximum Ratings at TA=25°C

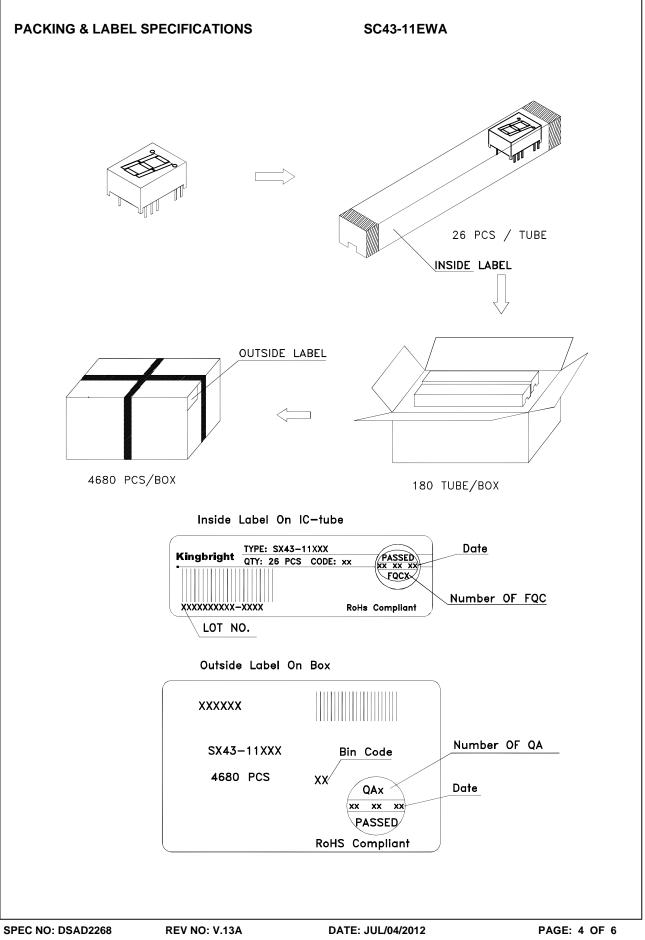
0					
Parameter	High Efficiency Red				
Power dissipation	75	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	160	mA			
Reverse Voltage	5	V			
Operating / Storage Temperature	-40°C To +85°C				
Lead Solder Temperature[2]	260°C For 3-5 Seconds				

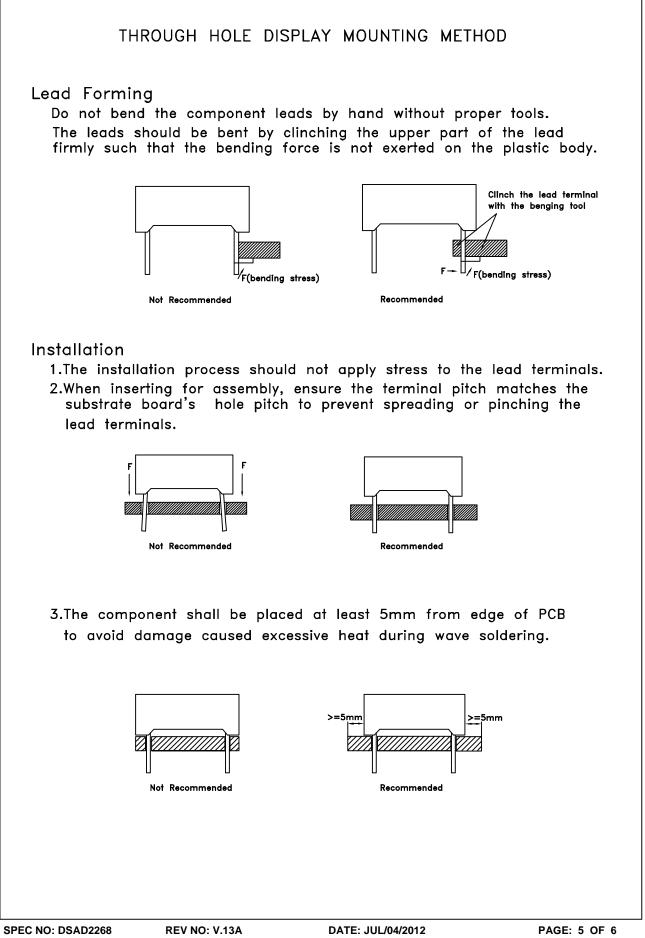
Notes:

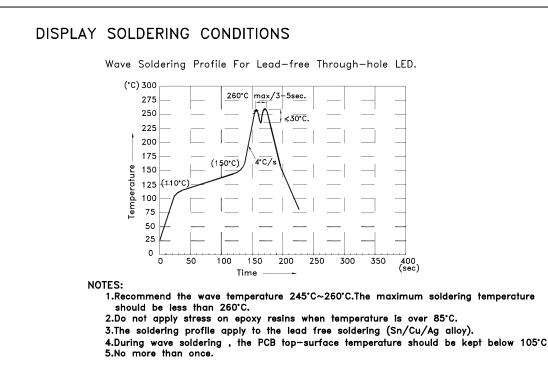
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

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.

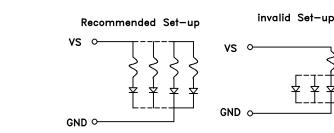
CLEANING

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

 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.



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

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