imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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25.4mm (1.0 INCH) SINGLE DIGIT NUMERIC DISPLAY

Part Number: SC10-21SURKWA Hyper Red

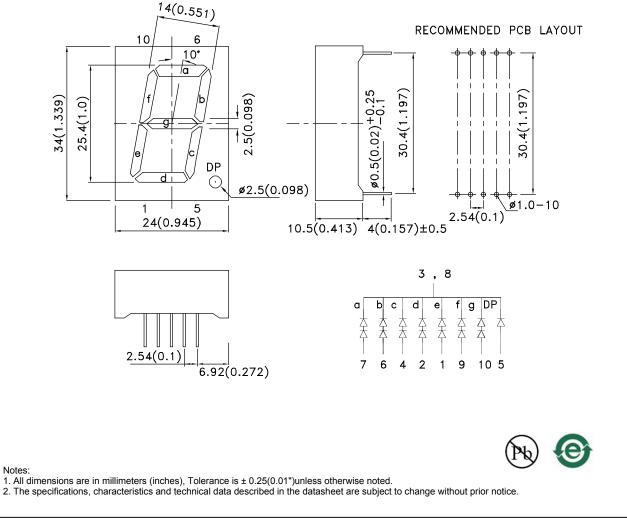
Features

- 1.0 inch digit height.
- Low current operation.
- Excellent character appearance.
- High light output.
- Easy mounting on P.C. boards or sockets.
- Mechanically rugged.
- Standard : gray face, white segment.
- RoHS compliant.

Description

The Hyper Red source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.





REV NO: V.1A CHECKED: Joe Lee DATE: APR/10/2013 **DRAWN: Y.Liu**

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Selection Guide						
Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description	
			Min.	Тур.	-	
SC10-21SURKWA Hyper Re	Hyper Red (AlGaInP)	WHITE DIFFUSED	88000	260000	Common Cathode,Rt.	
			*31000	*70000	Hand Decimal.	

Note:

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	Hyper Red	645		nm	IF=20mA
λD [1]	Dominant Wavelength	Hyper Red	630		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	28		nm	IF=20mA
С	Capacitance	Hyper Red	35		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage (DP)	Hyper Red	3.9 (1.95)	5.0 (2.5)	V	I⊧=20mA
lr	Reverse Current (Per chip)	Hyper Red		10 (10)	uA	VR=5V (VR=5V)

Notes:

1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

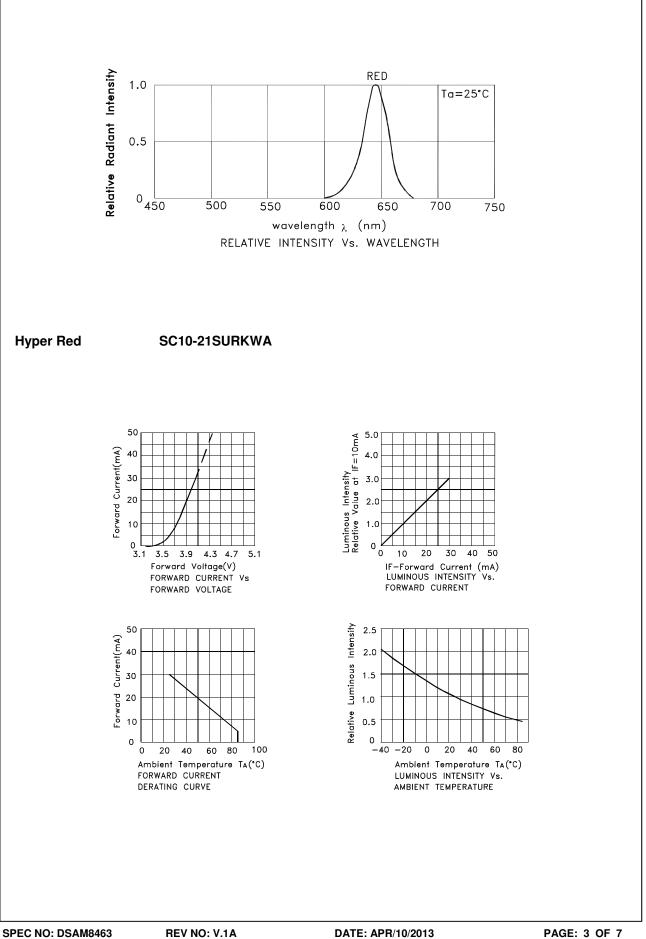
3.Wavelength value is traceable to the CIE127-2007 compliant national standards.

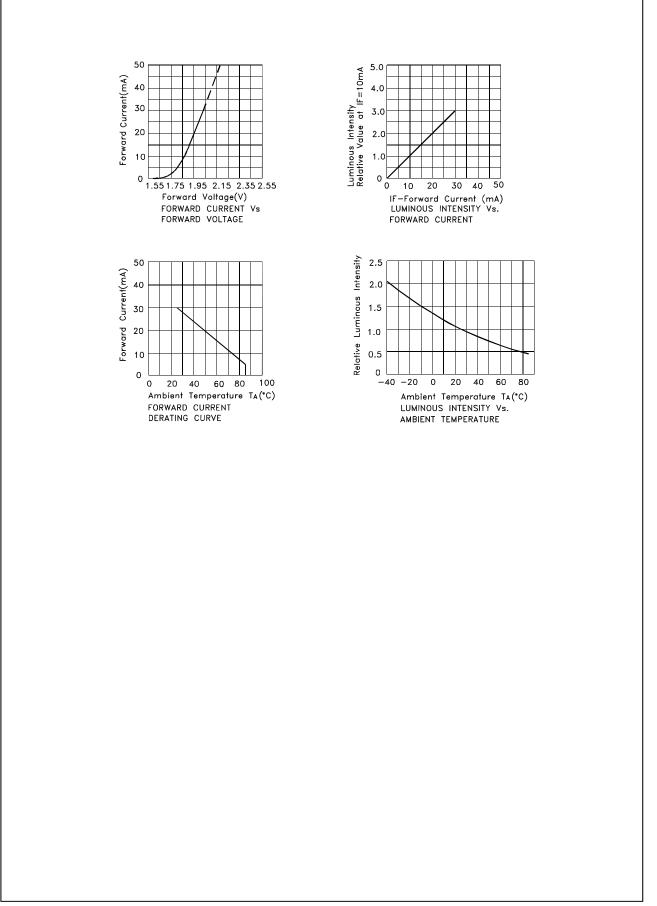
Absolute Maximum Ratings at TA=25°C

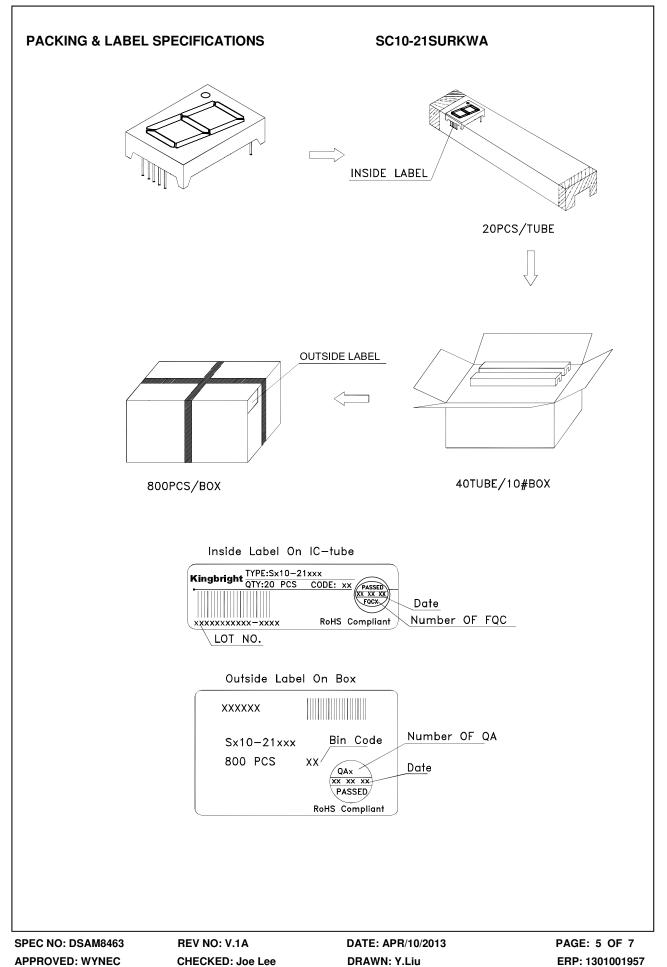
Parameter	Hyper Red		
Power dissipation (DP)	150 (75)	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	185	mA	
Reverse Voltage (Per chip)	5 (5)	V	
Operating / Storage Temperature	ating / Storage Temperature -40°C To +85°C		
Lead Solder Temperature[2]	I Solder Temperature[2] 260°C For 3-5 Seconds		

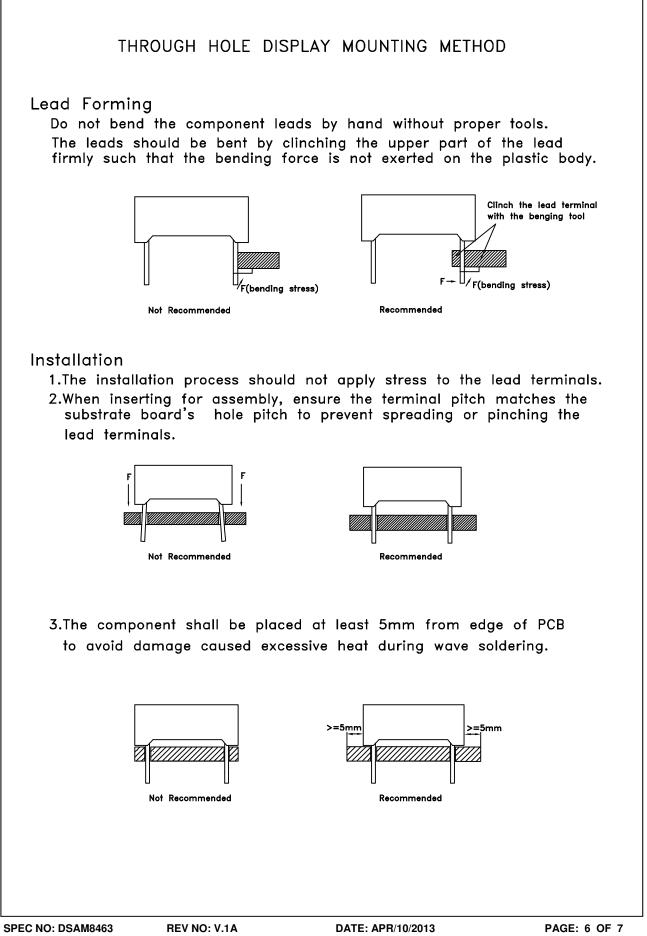
Notes:

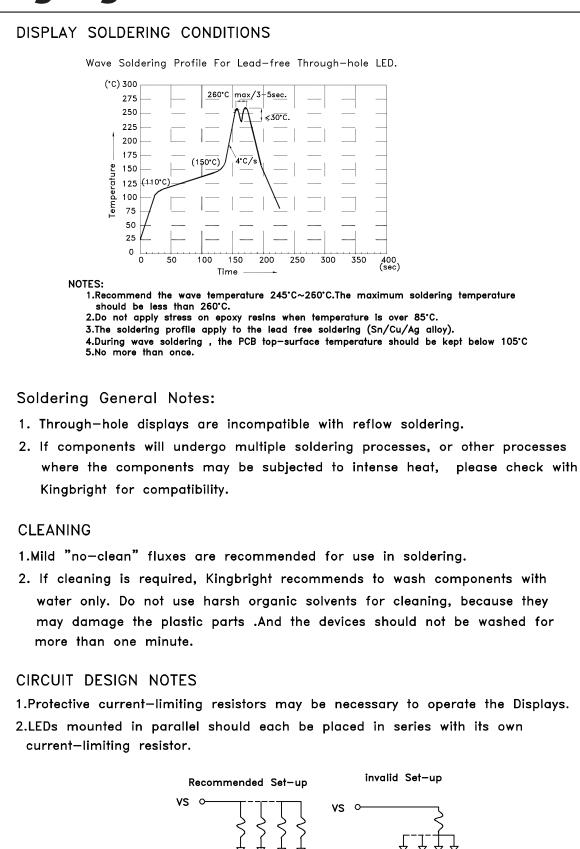
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.











All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes

DATE: APR/10/2013 DRAWN: Y.Liu

GND o