

### 25.4mm (1.0 INCH) SINGLE DIGIT NUMERIC DISPLAY

Part Number: SA10-21SURKWA Hyper Red

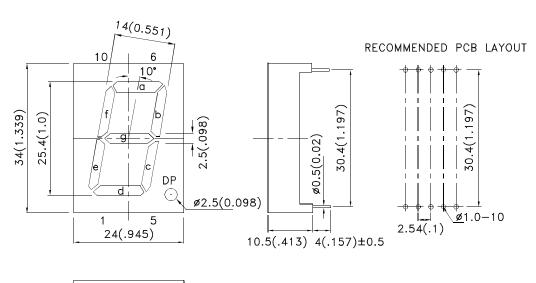
#### **Features**

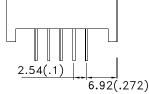
- 1.0 inch digit height.
- Low current operation.
- Excellent character appearance.
- High light output.
- Easy mounting on P.C. boards or sockets.
- Mechanically rugged.
- Standard : gray face, white segment.
- RoHS compliant.

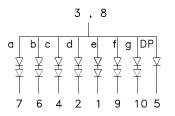
#### Description

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

#### **Package Dimensions& Internal Circuit Diagram**







#### Notes

1. All dimensions are in millimeters (inches), Tolerance is ± 0.25(0.01")unless otherwise noted.

2. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.





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#### **Selection Guide**

Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	-
SA10-21SURKWA	Hyper Red (AlGaInP)	White Diffused	88000	260000	Common Anode, Rt. Hand Decimal

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

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	650		nm	I==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 Per Segment Or (DP)	Hyper Red	3.9 (1.95)	5.0 (2.5)	V	I==20mA
lR	Reverse Current Per Segment Or (DP)	Hyper Red		10 (10)	uA	V <sub>R</sub> =5V (V <sub>R</sub> =5V)

#### Notes:

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

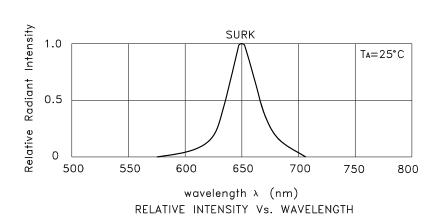
Parameter	Hyper Red	Units	
Power dissipation Per Segment Or (DP)	150 (75)	mW	
DC Forward Current Per Segment Or (DP)	30 (30)	mA	
Peak Forward Current [1] Per Segment Or (DP)	185 (185)	mA	
Reverse Voltage Per Segment Or (DP)	5 (5)		
Operating / Storage Temperature	-40°C To +85°C		
Lead Solder Temperature[2]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

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

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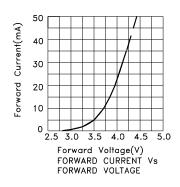
<sup>1.</sup> Luminous intensity/ luminous Flux: +/-15%.

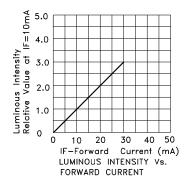
<sup>1.</sup>Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

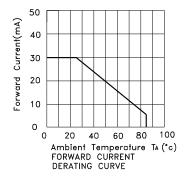


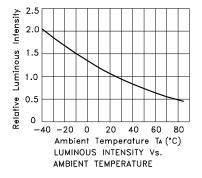
#### Green

#### SA10-21SURKWA

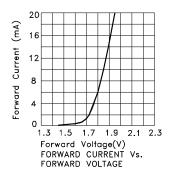


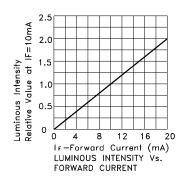


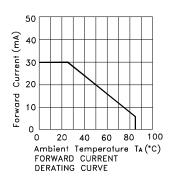


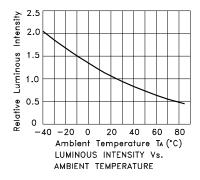


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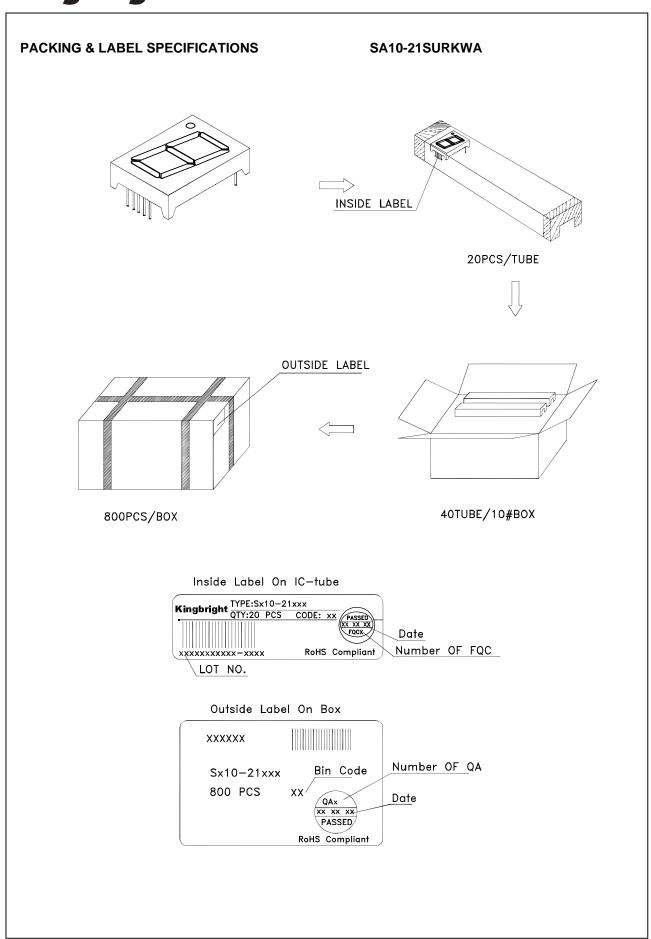








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