

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

Part Number: SA10-21HWA

BRIGHT RED

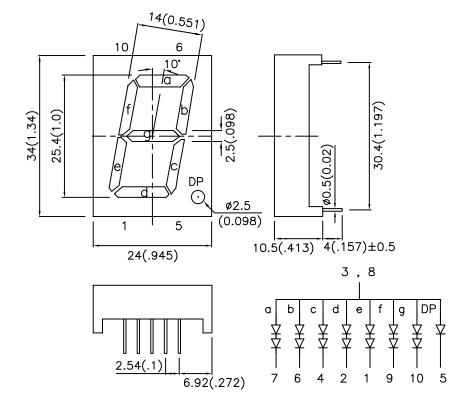
#### **Features**

- ●1.0 INCH DIGIT HEIGHT.
- •LOW CURRENT OPERATION.
- ●EXCELLENT CHARACTER APPEARANCE.
- •HIGH LIGHT OUTPUT.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- ●I.C. COMPATIBLE.
- •MECHANICALLY RUGGED.
- •STANARD: GRAY FACE, WHITE SEGMENT.
- ●RoHS COMPLIANT.

#### **Description**

The Bright Red source color devices are made with Gallium Phosphide Red Light Emitting Diode.

#### Package Dimensions & Internal Circuit Diagram.



#### Notes

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

2. Specifications are subject to change without notice.





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### **Selection Guide**

Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description	
			Min.	Тур.		
SA10-21HWA	BRIGHT RED(GaP)	WHITE DIFFUSED	800	2925	Common Anode, Rt. Hand Decimal.	

#### Note:

1. Luminous Intensity / Luminous Flux: +/-15%.

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

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Bright Red	700		nm	IF=20mA
λD [1]	Dominant Wavelength	Bright Red	660		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Bright Red	45		nm	IF=20mA
С	Capacitance	Bright Red	40		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage Per Segment or (Dp)	Bright Red	4.5 (2.25)	5.0 (2.5)	V	I==20mA
IR	Reverse Current Per Segment or (Dp)	Bright Red		10	uA	VR = 10(5)V

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

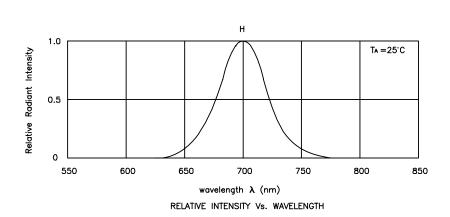
### Absolute Maximum Ratings at Ta=25°C

Parameter	Bright Red			
Power dissipation Per Segment or (Dp)	125 (62.5)	mW		
DC Forward Current Per Segment or (Dp)	25 (25)	mA		
Peak Forward Current [1] Per Segment or (Dp)	130 (130)	mA		
Reverse Voltage Per Segment or (Dp)	10 (5)	V		
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.

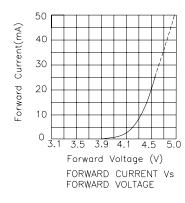
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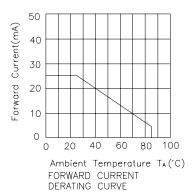
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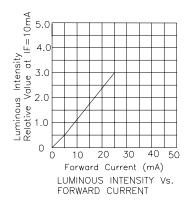


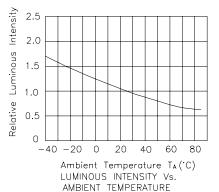
**Bright Red** 

**SA10-21HWA** 



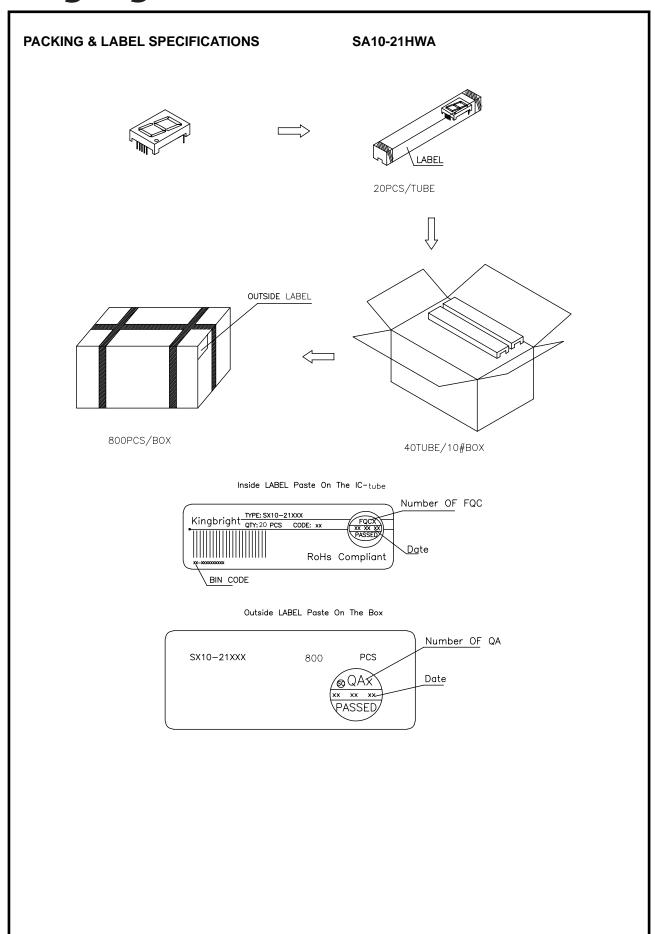






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