

## 30.48mm(1.2 INCH) 16 SEGMENT SINGLE DIGIT ALPHANUMERIC NUMERIC DISPLAY

Part Number: PSA12-11SRWA SUPER BRIGHT RED

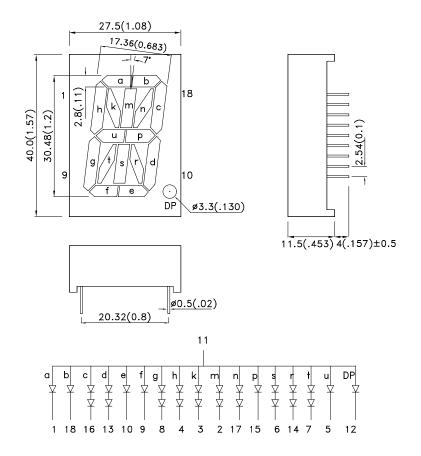
### **Features**

- •1.2 INCH CHARACTER HEIGHT .
- •LOW CURRENT OPERATION.
- •HIGH CONTRAST AND LIGHT OUTPUT.
- •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 Red source color devices are made with Gallium Aluminum Arsenide 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.





 SPEC NO: DSAA6572
 REV NO: V.9
 DATE: MAY/31/2007
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 APPROVED: WYNEC
 CHECKED: Joe Lee
 DRAWN: Z.Z.YANG
 ERP: 1311000062

## **Selection Guide**

Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	20001,
PSA12-11SRWA	SUPER BRIGHT RED (GaAIAs)	WHITE DIFFUSED	8000	26000	Common Anode, Rt. Hand Decimal

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

Symbol	Parameter		Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength		Super Bright Red	660		nm	IF=20mA
λD[1]	Dominant Wavelength		Super Bright Red	640		nm	IF=20mA
Δλ1/2	Spectral Line Half-width		Super Bright Red	20		nm	IF=20mA
С	Capacitance		Super Bright Red	45		pF	VF=0V;f=1MHz
\/ <del>-</del> [2]	[2] Forward Voltage	c,d,g,h,k,m,n,s,r,t	Super Bright Red	3.7	5.0	V	IF=20mA
VF[2]		a,b,e,f,p,u and DP		1.85	2.5		
IR Reverse Current	c,d,g,h,k,m,n,s,r,t	Cupor Pright Bod		10	uA	VR = 10V	
	a,b,e,f,p,u and DP	Super Bright Red		10	uA	VR = 5V	

## Absolute Maximum Ratings at Ta=25°C

Parameter		Super Bright Red	Units	
Dower dissipation	c,d,g,h,k,m,n,s,r,t	150	mW	
Power dissipation	a,b,e,f,p,u and DP	75		
DC Forward Current	c,d,g,h,k,m,n,s,r,t	30	mA	
	a,b,e,f,p,u and DP	30		
Peak Forward Current [1]	c,d,g,h,k,m,n,s,r,t	155		
	a,b,e,f,p,u and DP	155	mA	
Reverse Voltage	c,d,g,h,k,m,n,s,r,t	10		
	a,b,e,f,p,u and DP	5	V	
Operating/Storage Temperature		-40°C To +85°C		
Lead Solder Temperature [2]		260°C For 3-5 Seconds		

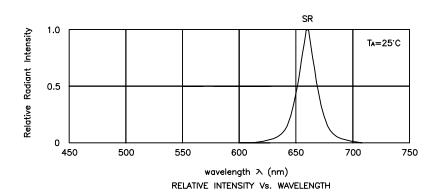
### Notes:

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

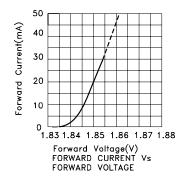
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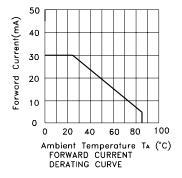
Note:
1. Luminous Intensity/ Luminous Flux: +/-15%.

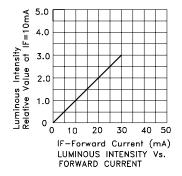
Notes: 1. Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

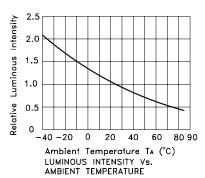


## PSA12-11SRWA Super Bright Red



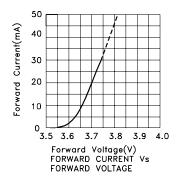


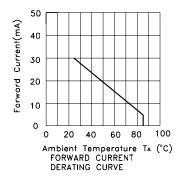


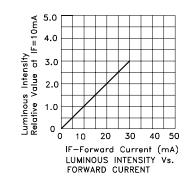


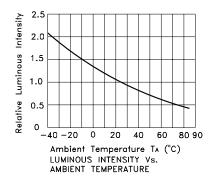
Note: the curves are on the segment a,b,e,f,p,u and DP.

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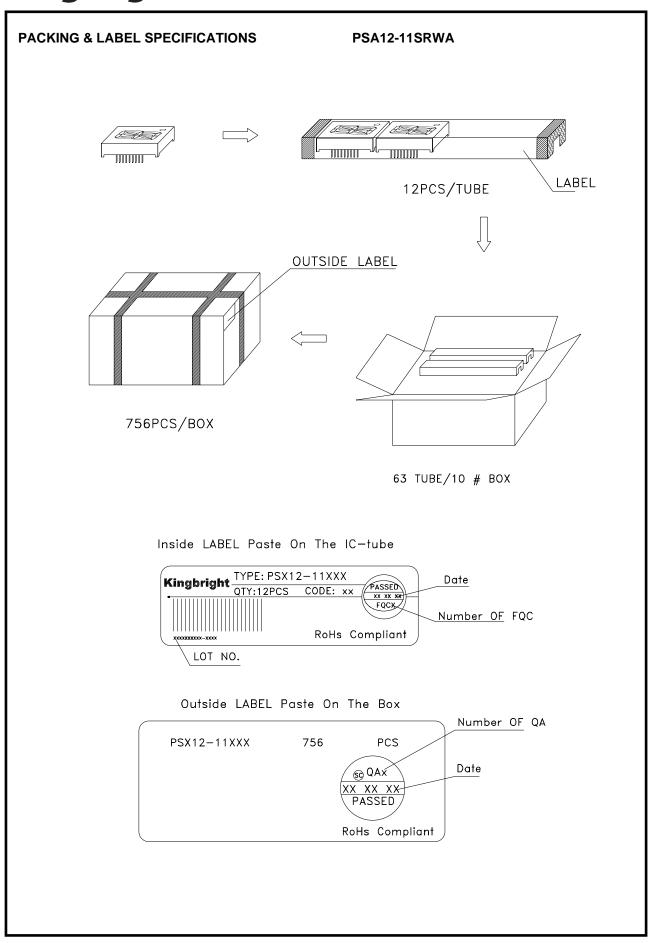






Note: the curves are on the segment c,d,g,h,k,m,n,s,r and t.

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## **Mouser Electronics**

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