

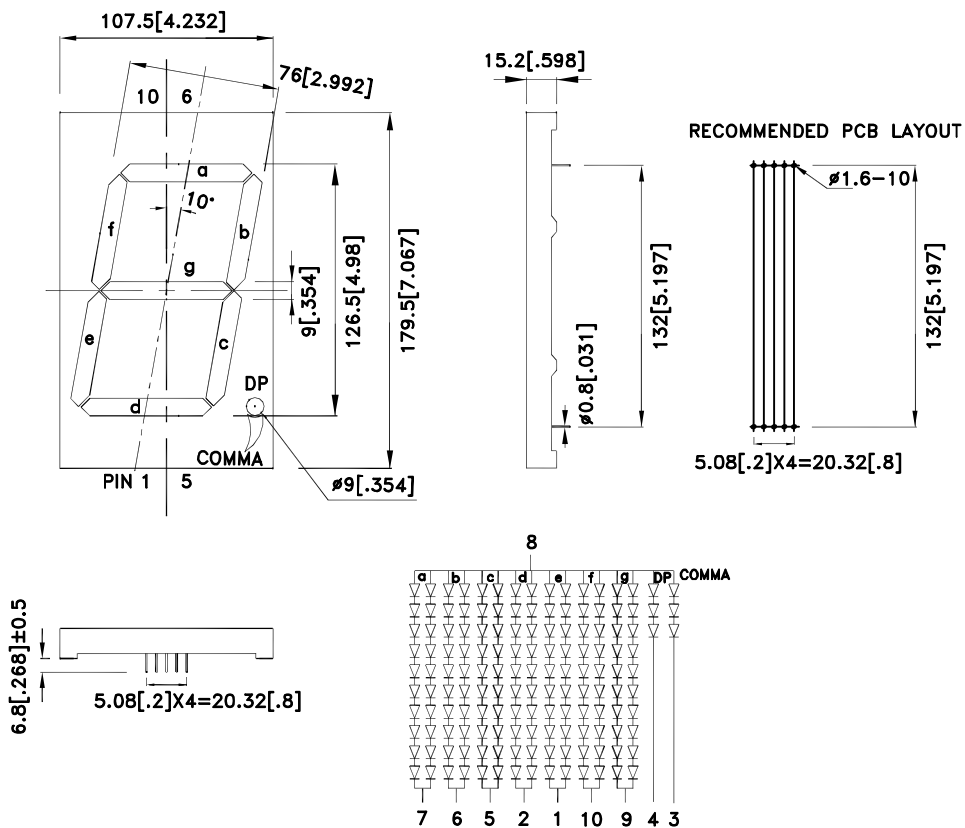
### Features

- 5.0 inch digit height.
- Low current operation.
- Excellent character appearance.
- 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.



## Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) [1] @ 10mA		Description
			Min.	Typ.	
SA50-31SRWA	Super Bright Red (GaAlAs)	WHITE DIFFUSED	44000	132000	Common Anode, Rt. Hand Decimal.

Note:

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

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

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_{peak}$	Peak Wavelength	Super Bright Red	660		nm	I <sub>F</sub> =20mA
$\lambda_D$ [1]	Dominant Wavelength	Super Bright Red	640		nm	I <sub>F</sub> =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Super Bright Red	20		nm	I <sub>F</sub> =20mA
C	Capacitance	Super Bright Red	45		pF	V <sub>F</sub> =0V;f=1MHz
V <sub>F</sub> [2]	Forward Voltage Per Segment (DP and comma)	Super Bright Red	18.5 (5.55)	25 (7.5)	V	I <sub>F</sub> =20mA
I <sub>R</sub>	Reverse Current Per Segment (DP and comma)	Super Bright Red		20 (10)	uA	V <sub>R</sub> =50V (V <sub>R</sub> =15V)

Notes:

1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

## Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Red	Units
Power dissipation Per Segment (DP and comma)	1500(225)	mW
DC Forward Current Per Segment (DP and comma)	60(30)	mA
Peak Forward Current [1] Per Segment (DP and comma)	310(155)	mA
Reverse Voltage Per Segment (DP and comma)	50(15)	V
Operating / Storage Temperature	-40°C To +85°C	
Lead Solder Temperature[2]	260°C For 3-5 Seconds	

Notes:

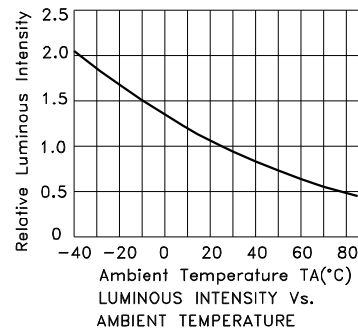
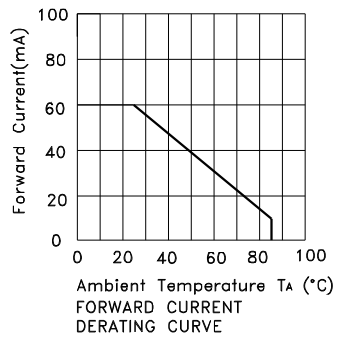
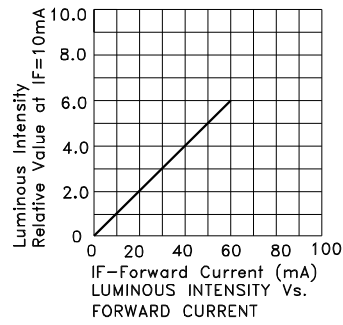
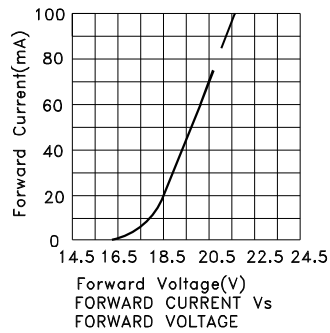
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

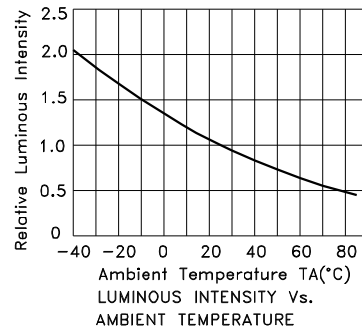
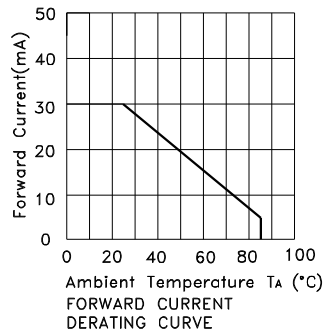
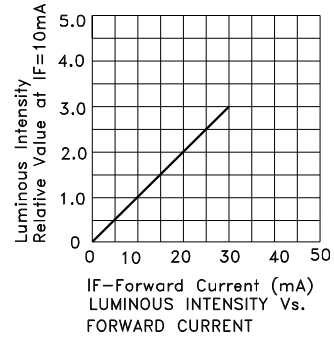
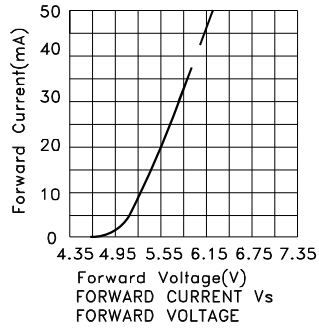
2. 2mm below package base.



## Super Bright Red

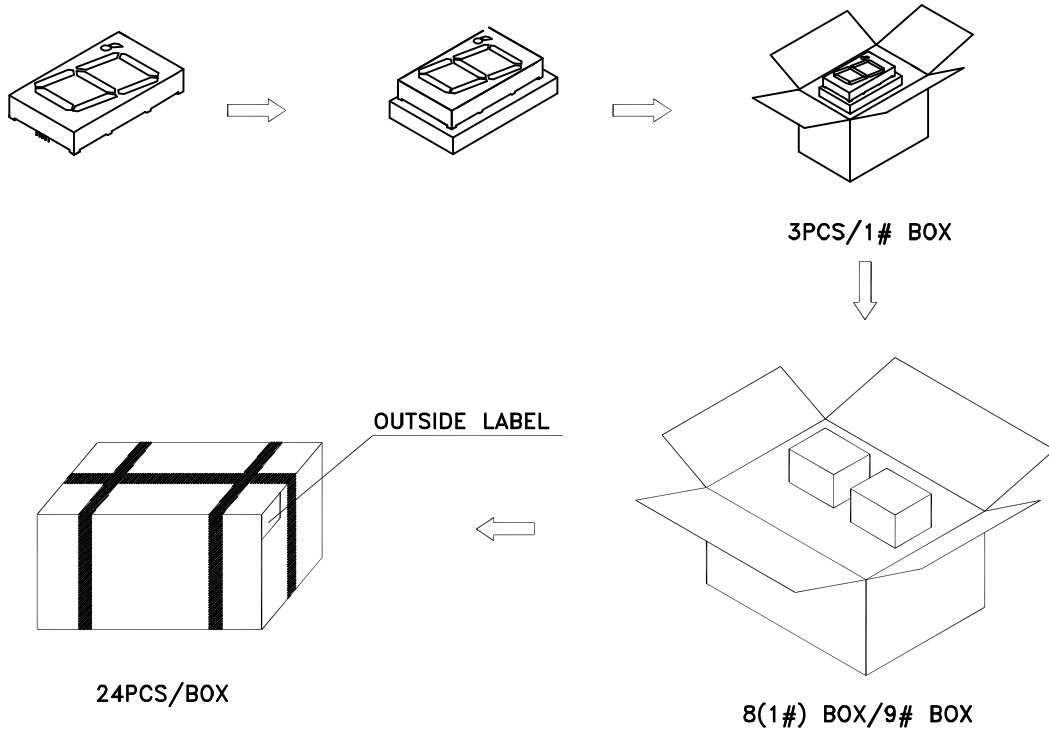
## SA50-31SRWA



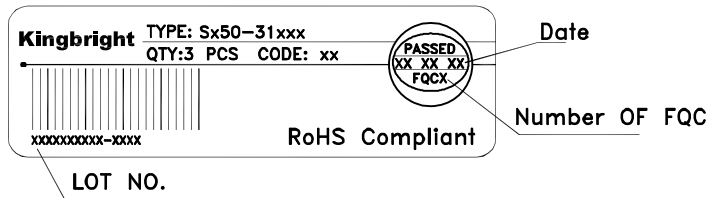


**PACKING & LABEL SPECIFICATIONS**

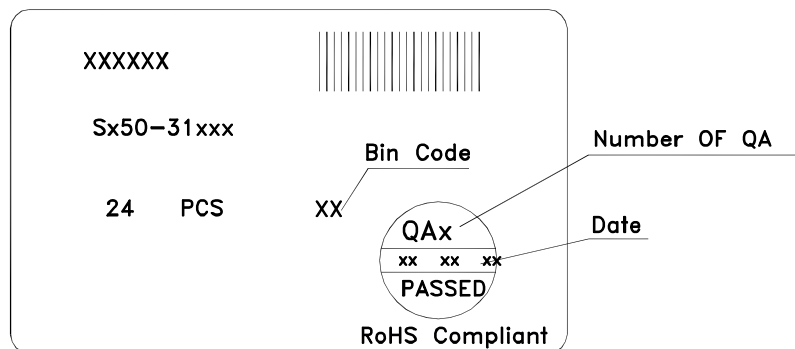
**SA50-31SRWA**



Inside Label Paste On The 1#BOX



Outside Label Paste On The Box



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [LCD Graphic Display Modules & Accessories](#) category:*

*Click to view products by [Kingbright](#) manufacturer:*

Other Similar products are found below :

[NA57W001B](#) [HDM64GS12L-Y11S](#) [LCM-H12864GSFH-Y](#) [MGLS-240128-Z05](#) [GLK19264A-7T-1U-TCI-LV-E](#) [DEM 128032A](#) [FGH](#)  
[RG12864F-FHW-M](#) [EGLK19264A-7T-WB-VPT-PL](#) [HG2G-V5FT22TF-W](#) [HG1G-4VT22TF-S](#) [HDM64GS24L-2-Y14S](#) [LTS-2301AP](#) [LTS-](#)  
[6760P](#) [LTS-6980HR](#) [RG12864A-GHC-V](#) [RG12864A-GHY-V](#) [RG12864A-TIG-V](#) [RG12864A-TIY-V](#) [RG12864A-YHY-X](#) [RG12864B-](#)  
[FHW-V](#) [RG12864B-GHW-V](#) [RG12864C-YHW-V](#) [RG12864K-BIW-VBG](#) [RG160128A-TIW-V](#) [RG240128B-YHY-M](#) [RG320240A1-BIW-V](#)  
[RG320240B-BIW-V](#) [RG320240B-FHW-V](#) [DEM 097032A](#) [SGH-PY](#) [DEM 122032A](#) [SYH-LY](#) [DEM 122032C](#) [SBH-PW-N-12](#) [DEM 128064A](#)  
[SBH-PW-N](#) [DEM 128064B](#) [SBH-PW-N](#) [DEM 128064F](#) [FGH-P\(RGB\)](#) [DEM 128064G](#) [FGH-PW](#) [DEM 128064I](#) [FGH-PW](#) [DEM 128064J](#)  
[SBH-PW-N](#) [DEM 128064O](#) [FGH-PW](#) [DEM 128064Q](#) [SBH-PW-N](#) [DEM 128128D](#) [FGH-PW](#) [DEM 240064B](#) [FGH-PW](#) [DEM 240064B](#) [SBH-](#)  
[PW-N](#) [DEM 240160A](#) [SBH-PW-N](#) [DEM 320240B](#) [FGH-PW-N](#) [DEM 320240C](#) [FGH-PW](#) [EA W240-7KHLW](#) [RX12864A1-BIW](#)  
[RX12864D3-BIW](#) [RX240128A-FGN](#) [RX240128A-TIW](#)