

TC23-11SRWA

SUPER BRIGHT RED

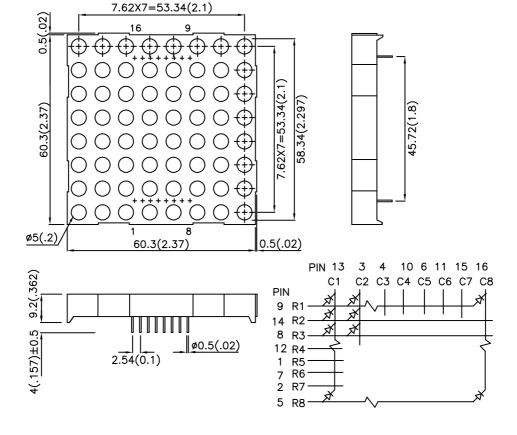
Features

- •2.3 INCH MATRIX HEIGHT.
- •DOT SIZE 5mm.
- •LOW CURRENT OPERATION.
- •HIGH CONTRAST AND LIGHT OUTPUT.
- •COMPATIBLE WITH ASCII AND EBCDIC CODES.
- •STACKABLE HORIZONTALLY.
- •COLUMN CATHODE AND COLUMN ANODE AVAILABLE.
- •EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- •MULTICOLOR AVAILABLE.
- •MECHANICALLY RUGGED.
- •STANDARD: GRAY FACE, WHITE DOT.
- •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.

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APPROVED: J. Lu CHECKED: Joe Lee DRAWN: W.J.ZHU

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Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) @ 10mA		Description
			Min.	Тур.	-
TC23-11SRWA	SUPER BRIGHT RED (GaAIAs)	WHITE DIFFUSED	12000	44000	Column Cathode

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	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
VF	Forward Voltage	Super Bright Red	1.85	2.5	V	IF=20mA
IR	Reverse Current	Super Bright Red		10	uA	VR = 5V

Absolute Maximum Ratings at Ta=25°C

Parameter	Super Bright Red		
Power dissipation	100	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	155	mA	
Reverse Voltage	5	V	
perating / Storage Temperature -40°C To +85°C			
ead Solder Temperature [2] 260°C For 5 Seconds			

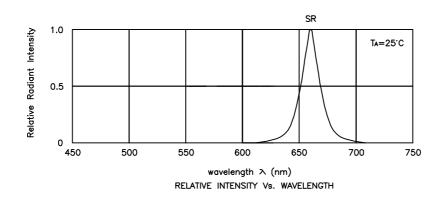
Notes:

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

2. 5mm below package base.

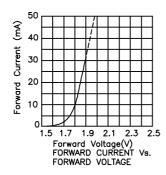
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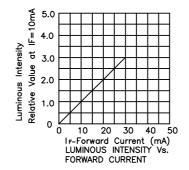
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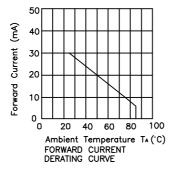


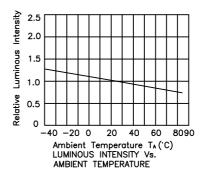
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Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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