

SURFACE MOUNT DISPLAY

P/N: KPSA04-104

SUPER BRIGHT RED

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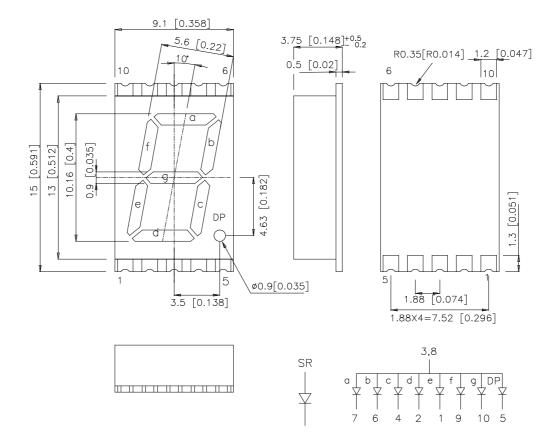
Features

- ●0.4INCH DIGIT HEIGHT.
- •LOW CURRENT OPERATION.
- •EXCELLENT CHARACTER APPEARANCE.
- ●I.C. COMPATIBLE.
- •MECHANICALLY RUGGED.
- •GRAY FACE, WHITE SEGMENT.
- •PACKAGE: 400PCS/REEL.
- •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) @ 10 mA		Description
			Min.	Тур.	•
KPSA04-104	SUPER BRIGHT RED (GaAlAs)	WHITE DIFFUSED	8000	27500	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	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
lr	Reverse Current	Super Bright Red		10	uA	VR = 5V

Absolute Maximum Ratings at Ta=25°C

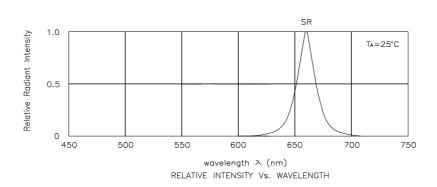
Parameter	Super Bright Red	Units
Power dissipation	100	mW
DC Forward Current	30	mA
Peak Forward Current [1]	155	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

Note:

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

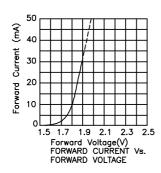
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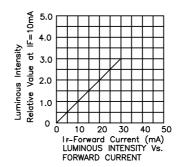
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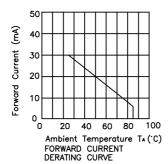


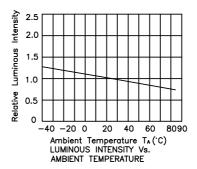
Super Bright Red

KPSA04-104









Remarks

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

1. Wavelength: +/-1nm

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

3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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KPSA04-104 Reflow Soldering Profile For Lead-free SMT Process. 200 4°C/s max 150 Temperature 50 150 200 250 100 Time -NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3.No more than once. **Recommended Soldering Pattern** (Units: mm) 1.88X4=7.52 **Tape Specifications** (Units: mm) TAPE 0.4TYP 4 ± 0.1 2 ± 0.1 0 0 0 0 0 0 Ö \bigcirc 0 1.75±0.1 11.5±0. 24 +0.3

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16±0.1

3.95±0.1

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