Kingbright

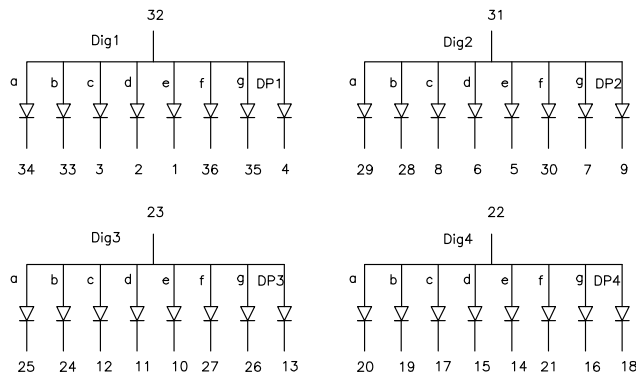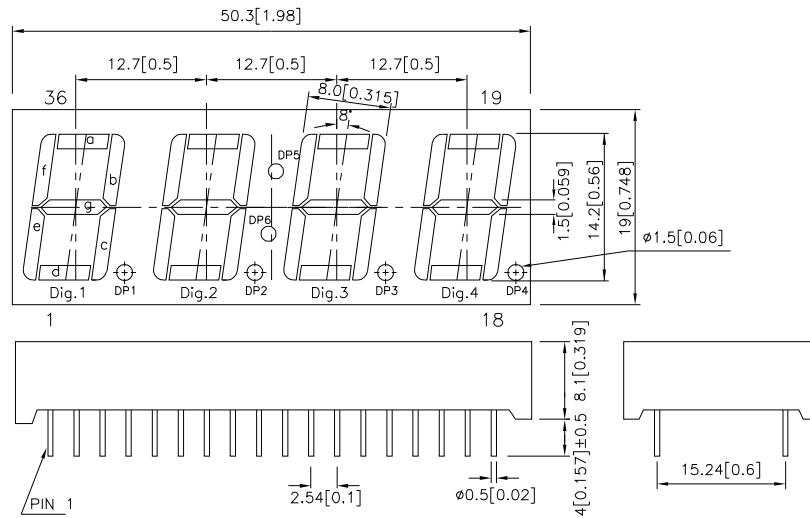P/N: CA56-11SRWA   SUPER BRIGHT RED

Features

● 0.56 INCH DIGIT HEIGHT.

● LOW CURRENT OPERATION.

● EXCELLENT CHARACTER APPEARANCE.

● EASY MOUNTING ON P.C. BOARDS OR SOCKETS.

● I.C. COMPATIBLE.

● 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 ±0.25(0.01")unless otherwise noted.
2. Specifications are subject to change without notice.

Kingbright

Selection Guide

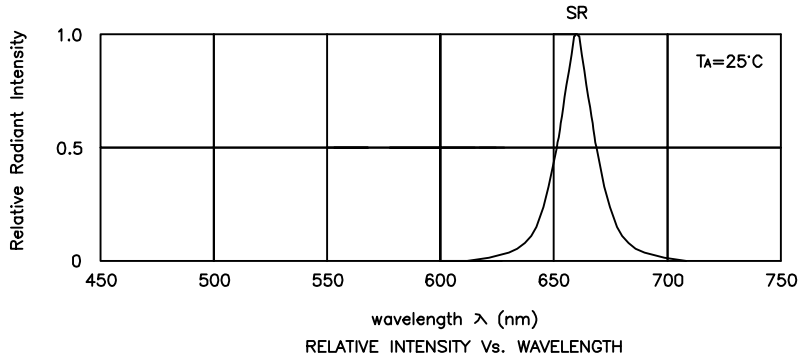| Part No.	Dice	Lens Type	Iv (ucd) @ 10mA Min.	Iv (ucd) @ 10mA Typ.	Description
CA56-11SRWA	SUPER BRIGHT RED (GaAIAs)	WHITE DIFFUSED	4700	24000	Common Anode, Rt. Hand Decimal.

Electrical / Optical Characteristics at T$_A$=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	660		nm	I$_F$=20mA
λD	Dominant Wavelength	Super Bright Red	640		nm	I$_F$=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red	20		nm	I$_F$=20mA
C	Capacitance	Super Bright Red	45		pF	V$_F$=0V;f=1MHz
V$_F$	Forward Voltage	Super Bright Red	1.85	2.5	V	I$_F$=20mA
I$_R$	Reverse Current	Super Bright Red		10	uA	V$_R$ = 5V

Absolute Maximum Ratings at T$_A$=25°C

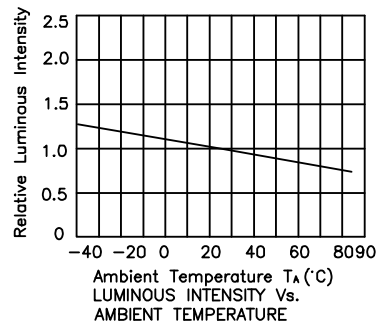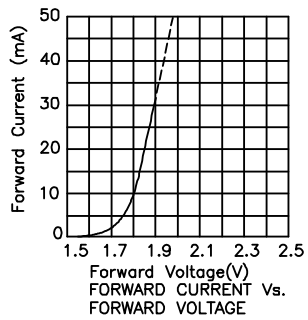| Parameter	Super Bright Red	Units
Power dissipation	100	mW
DC Forward Current	30	mA
Peak Forward Current [1]	155	mA
Reverse Voltage	5	V
Operating / Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 5 Seconds	

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

Kingbright

SR

RELATIVE INTENSITY Vs. WAVELENGTH

Super Bright Red   CA56-11SRWA

FORWARD CURRENT Vs. FORWARD VOLTAGE

LUMINOUS INTENSITY Vs. FORWARD CURRENT

FORWARD CURRENT DERATING CURVE

LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE
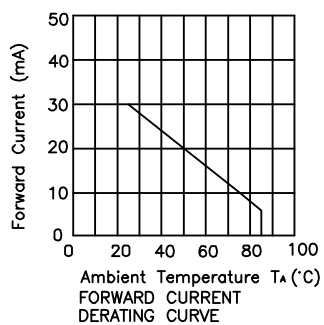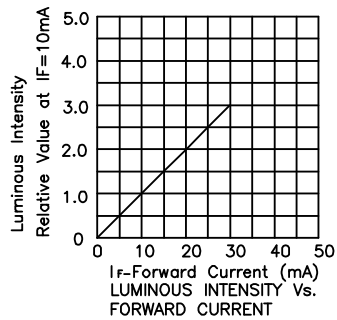
Remarks:

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.