

25mm (1.0INCH) SINGLE DIGIT NUMERIC DISPLAYS

SA10-11 SC10-11 SA10-21 SC10-21

Features

- •1.0 INCH DIGIT HEIGHT.
- •LOW CURRENT OPERATION.
- •EXCELLENT CHARACTER APPEARANCE.
- •HIGH LIGHT OUTPUT.
- •EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- •I.C. COMPATIBLE.
- •CATEGORIZED FOR LUMINOUS INTENSITY, YELLOW AND GREEN CATEGORIZED FOR COLOR.
- •MECHANICALLY RUGGED.
- •STANARD: GRAY FACE, WHITE SEGMENT.

Description

The Bright Red source color devices are made with Gallium Phosphide Red Light Emitting Diode.

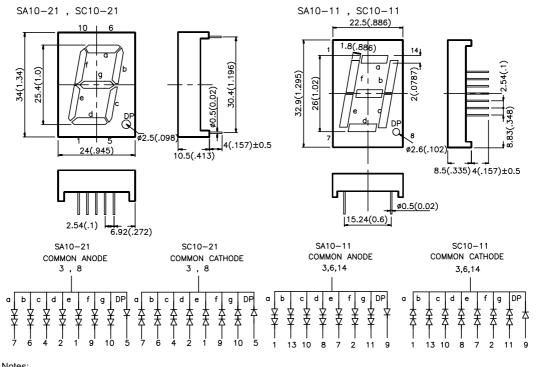
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

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 subjected to change whitout notice.

Selection Guide

Part No.	Dice	Iv (ucd) @ 10 mA		5	
	2.00	Min.	Max.	Description	
SA10-11HWA SA10-21HWA	PRICHT RED (Cap)	900	2200	Common Anode, Rt. Hand Decimal	
SC10-11HWA SC10-21HWA	BRIGHT RED (GaP)			Common Cathode, Rt. Hand Decimal	
SA10-11EWA SA10-21EWA	LIICH EFFICIENCY DED (CoAcD(CoD)	5600	14000	Common Anode, Rt. Hand Decimal	
SC10-11EWA SC10-21EWA	HIGH EFFICIENCY RED (GaAsP/GaP)			Common Cathode, Rt. Hand Decimal	
SA10-11GWA SA10-21GWA	ODEEN (O-D)	9000	22000	Common Anode, Rt. Hand Decimal	
SC10-11GWA SC10-21GWA	GREEN (GaP)			Common Cathode, Rt. Hand Decimal	
SA10-11YWA SA10-21YWA	VELLOW (O-A-D(O-D)	3600	9000	Common Anode, Rt. Hand Decimal	
SC10-11YWA SC10-21YWA	YELLOW (GaAsP/GaP)			Common Cathode, Rt. Hand Decimal	
SA10-11SRWA SA10-21SRWA	OUDED DDIOUT DED (O-AIA-)	14000	31000	Common Anode, Rt. Hand Decimal	
SC10-11SRWA SC10-21SRWA	SUPER BRIGHT RED (GaAlAs)			Common Cathode, Rt. Hand Decimal	

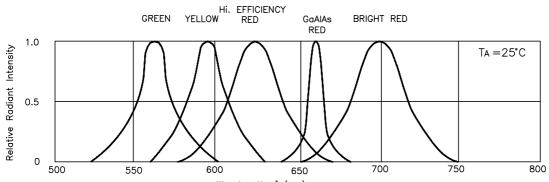
Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Bright Red High Efficiency Red Green Yellow Super Bright Red	700 625 565 590 660		nm	IF=20mA
Δλ1/2	Spectral Line Halfwidth	Bright Red High Efficiency Red Green Yellow Super Bright Red	45 45 30 35 20		nm	IF=20mA
С	Capacitance	Bright Red High Efficiency Red Green Yellow Super Bright Red	40 12 45 10 95		pF	VF=0V;f=1MHz
V _F	Forward Voltage	Bright Red High Efficiency Red Green Yellow Super Bright Red	2.0 2.0 2.2 2.1 1.85	2.5 2.5 2.5 2.5 2.5	V	IF=20mA
I _R	Reverse Current	All	10		uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

Parameter	Bright Red	High Efficiency Red	Green	Yellow	Super Bright Red	Units
Power dissipation	120	105	105	105	100	mW
DC Forward Current	25	30	25	30	30	mA
Peak Forward Current [1]	150	150	150	150	150	mA
Reverse Voltage	5	5	5	5	5	V
Operating/Storage Temperature	-40° C To +85 ° C					
Lead Soldering Temperature [2]	260° C For 5 Seconds					

- Notes: 1. 1/10 Duty Cycle, 0.1ms Pulse Width. 2. 4mm below package base.



Wavelength λ (nm) RELATIVE INTENSITY Vs. WAVELENGTH

Bright Red

