

13mm (0.52INCH) SINGLE DIGIT NUMERIC DISPLAYS

SA52-11 SC52-11

Features

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

Description

The Red source color device are made with Gallium Arsendide Phosphide Red Light Emitting Diode.

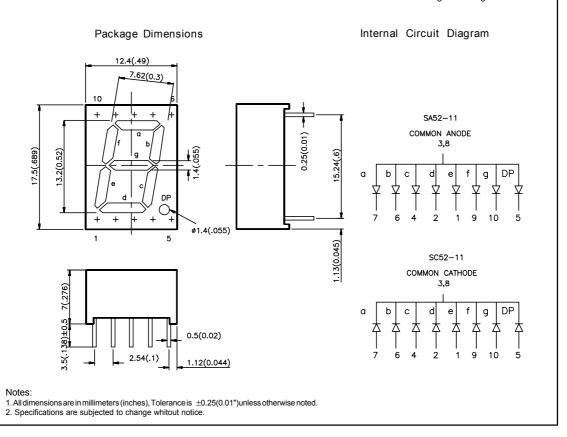
The Bright Red source color devices are made with Gallium Phosphide Red Light Emitting Diode.

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.



Selection Guide

Part No.	Dice	lv (ucd) @ 10 mA		Description		
		Min.	Max.	Description		
SA52-11RWA	DED (CoAcD)	240	560	Common Anode, Rt Hand Decimal		
SC52-11RWA	RED (GaAsP)			Common Cathode, Rt. Hand Decimal		
SA52-11HWA	PRIOLIT PED (O-P)	900	2200	Common Anode, Rt Hand Decimal		
SC52-11HWA	BRIGHT RED (GaP)			Common Cathode, Rt. Hand Decimal		
SA52-11EWA	LUCH EFFICIENCY DED (CaAaD(CaD)	2200	17000	Common Anode, Rt Hand Decimal		
SC52-11EWA	HIGH EFFICIENCY RED (GaAsP/GaP)			Common Cathode, Rt. Hand Decimal		
SA52-11GWA	CDEEN (CoD)	5600	5600	Common Anode, Rt Hand Decimal		
SC52-11GWA	GREEN (GaP)			Common Cathode, Rt. Hand Decimal		
SA52-11YWA	VELLOW (CoAcD/CoD)	2200	5600	Common Anode, Rt Hand Decimal		
SC52-11YWA	YELLOW (GaAsP/GaP)	2200		Common Cathode, Rt. Hand Decimal		
SA52-11SRWA	CLIDED DDICLIT DED (CAALAA)	5600	21000	Common Anode, Rt Hand Decimal		
SC52-11SRWA	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	Red Bright Red High Efficiency Red Green Yellow Super Bright Red	660 700 625 565 590 660		nm	IF=20mA	
Δλ1/2	Spectral Line Halfwidth	Red Bright Red High Efficiency Red Green Yellow Super Bright Red	20 45 45 30 35 20		nm	IF=20mA	
С	Capacitance	Red Bright Red High Efficiency Red Green Yellow Super Bright Red	40 40 12 45 10 95		pF	VF=0V;f=1MHz	
VF	Forward Voltage	Red Bright Red High Efficiency Red Green Yellow Super Bright Red	1.7 2.0 2.0 2.2 2.1 1.85	2.1 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	Red	Bright Red	High Efficiency Red	Green	Yellow	Super Bright Red	Units
Power dissipation	120	120	105	105	105	100	mW
DC Forward Current	30	25	30	25	30	30	mA
Peak Forward Current [1]	150	150	150	150	150	150	mA
Reverse Voltage	5	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

