

## 30.5mm (1.2 INCH) SINGLE DIGIT NUMERIC DISPLAYS

SA12-11 SC12-11 SBA12-11 SBC12-11

#### **Features**

- •1.2 INCHDIGITHEIGHT.
- •LOW CURRENT OPERATION.
- •EXCELLENT CHARACTER APPEARANCE.
- •HIGH LIGHT OUTPUT.
- •EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- •I.C. COMPATIBLE.
- •MULTICOLOR AVAILABLE.
- •CATEGORIZED FOR LUMINOUS INTENSITY, YELLOW AND GREEN CATEGORIZED FOR COLOR.
- •MECHANICALLY RUGGED.
- •STANDARD: GRAY FACE, WHITE SEGMENT.

### Description

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

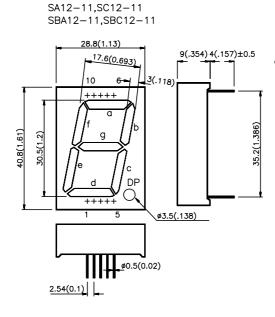
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

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

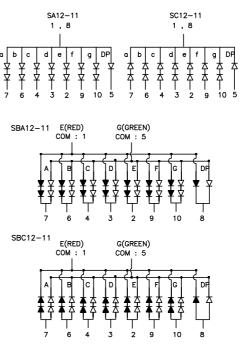
The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode .

### Package Dimensions



Internal Circuit Diagram



- 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	lv (ucd) @ 10 mA			
l arrivo.	5.00	Min.	Max.	Description	
SA12-11HWA	PRICHT PED (Cap)	900	2200	Common Anode, Rt Hand Decimal	
SC12-11HWA	BRIGHT RED (GaP)			Common Cathode, Rt. Hand Decimal	
SA12-11EWA	LUCULEEFICIENCY DED (CoAsD(CoD)	5600	14000	Common Anode, Rt Hand Decimal	
SC12-11EWA	HIGH EFFICIENCY RED (GaAsP/GaP)			Common Cathode, Rt. Hand Decimal	
SA12-11GWA	ODEEN (O-D)	3600	9000	Common Anode, Rt Hand Decimal	
SC12-11GWA	GREEN (GaP)			Common Cathode, Rt. Hand Decimal	
SA12-11YWA	VELLOW (CoAsp(Cop)	3600	9000	Common Anode, Rt Hand Decimal	
SC12-11YWA	YELLOW (GaAsP/GaP)			Common Cathode, Rt. Hand Decimal	
SA12-11SRWA	CLIDED DDICLIT DED (C-AIA-)	14000	31000	Common Anode, Rt Hand Decimal	
SC12-11SRWA	SUPER BRIGHT RED (GaAlAs)			Common Cathode, Rt. Hand Decimal	
SBA12-11EGWA SBC12-11EGWA	HIGH EFFICIENCY RED (GaAsP/GaP)	3600 9000 Common Anode, Rt Hand		Common Anode, Rt Hand Decimal	
	GREEN (GaP)	3600	9000	Common Cathode, Rt. Hand Decimal	

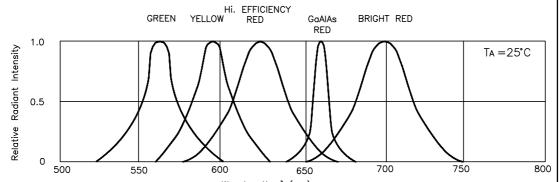
## Electrical / Optical Characteristics at $T_A$ =25°C

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	
VF	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 <sub>R</sub>	Reverse Current	All	10		uA	VR = 5V	

## Absolute Maximum Ratings at T<sub>A</sub>=25°C

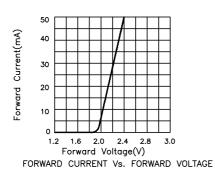
Parameter	Bright Red	High Efficiency Red	Green	Yellow	Super Bright Red	Units
Power dissipation	120	105	105	105	100	mW
DC Forward Current	25	30	25	30	30	mA
Peak Forward Current [1]	150	150	150	150	150	mA
Reverse Voltage	5	5	5	5	5	V
Operating/Storage Temperature	-40 ° C To +85 ° C					
Lead Soldering Temperature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

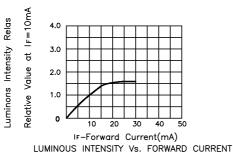
- Notes:
  1. 1/10 Duty Cycle, 0.1ms Pulse Width.
  2. 4mm below package base.

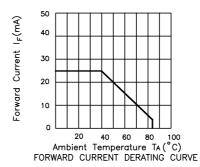


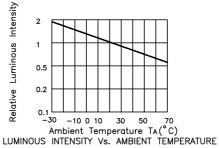
Wavelength  $\lambda$  (nm) RELATIVE INTENSITY Vs. WAVELENGTH

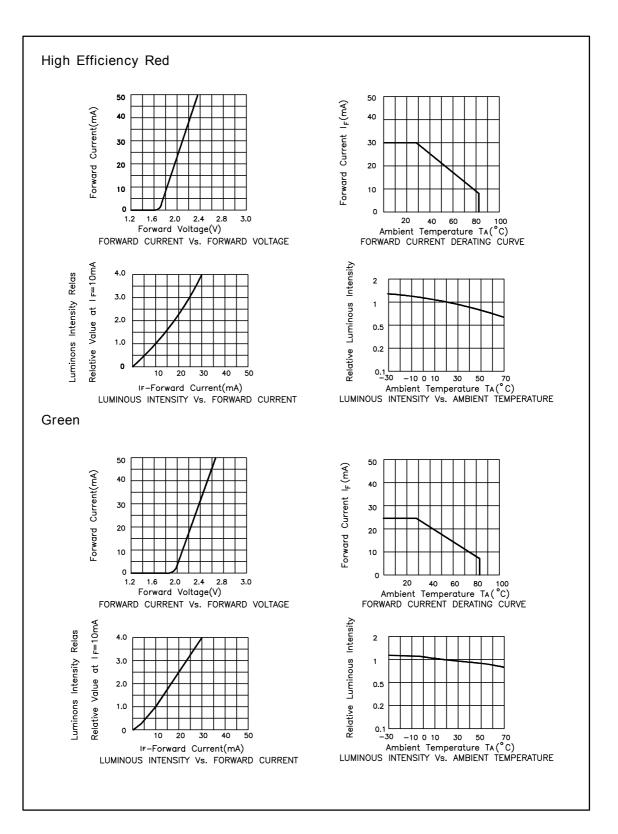
## Bright Red

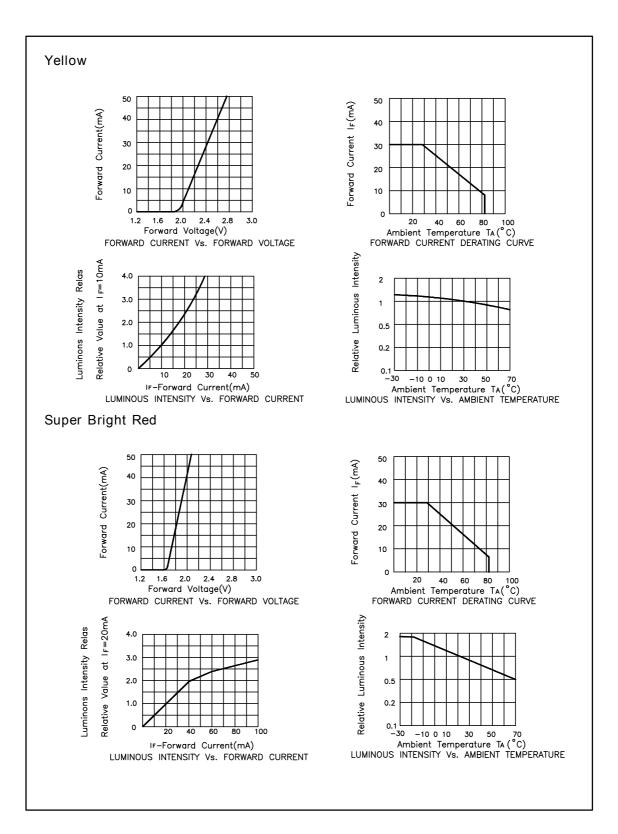












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