

SA15-11EWA/SRWA/YWA/GWA

SC15-11EWA/SRWA/YWA/GWA

SBA15-11EGWA

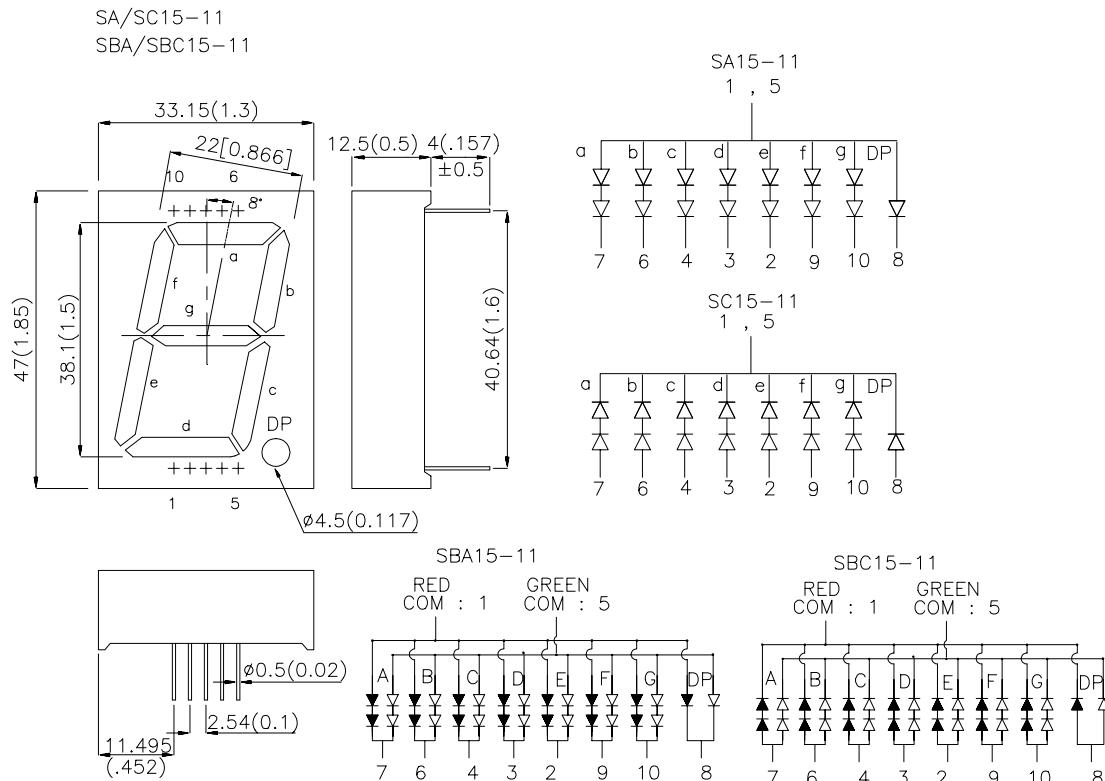
SBC15-11EGWA

Features

- 1.5 INCH DIGIT HEIGHT.
 - 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.
- The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.
- The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.
- The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.
- The Green source color devices are made with Gallium Phosphide GreenLight Emitting Diode.

Description

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.

Selection Guide

Part No.	Dice	Lens Type	I _V (ucd) @ 10 mA		Description
			Min.	Typ.	
SA15-11EWA	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	4700	16000	Common Anode, Rt. Hand Decimal
SC15-11EWA					Common Cathode, Rt. Hand Decimal
SA15-11SRWA	SUPER BRIGHT RED (GaAlAs)	WHITE DIFFUSED	18000	60000	Common Anode, Rt. Hand Decimal
SC15-11SRWA					Common Cathode, Rt. Hand Decimal
SA15-11YWA	YELLOW (GaAsP/GaP)	WHITE DIFFUSED	3000	8000	Common Anode, Rt. Hand Decimal
SC15-11YWA					Common Cathode, Rt. Hand Decimal
SA15-11GWA	GREEN (GaP)	WHITE DIFFUSED	8000	24000	Common Anode, Rt. Hand Decimal
SC15-11GWA					Common Cathode, Rt. Hand Decimal
SBA15-11EGWA	HIGH EFFICIENCY RED (GaAsP/GaP) GREEN (GaP)	WHITE DIFFUSED	4700	16000	Common Anode, Rt. Hand Decimal
SBC15-11EGWA			8000	24000	Common Cathode, Rt. Hand Decimal

Electrical / Optical Characteristics at T_A=25°C

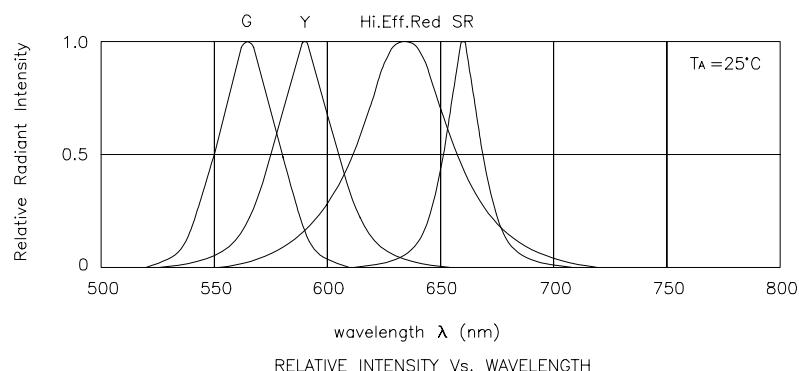
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red Super Bright Red Yellow Green	627 660 590 565		nm	I _F =20mA
λ D	Dominate Wavelength	High Efficiency Red Super Bright Red Yellow Green	625 640 588 568		nm	I _F =20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red Super Bright Red Yellow Green	45 20 35 30		nm	I _F =20mA
C	Capacitance	High Efficiency Red Super Bright Red Yellow Green	15 45 20 15		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red Super Bright Red Yellow Green	2.0 1.85 2.1 2.2	2.5 2.5 2.5 2.5	V	I _F =20mA
I _R	Reverse Current	All		10	uA	V _R = 5V

Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

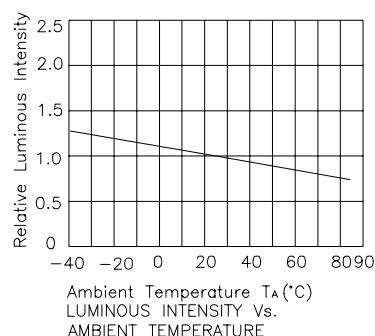
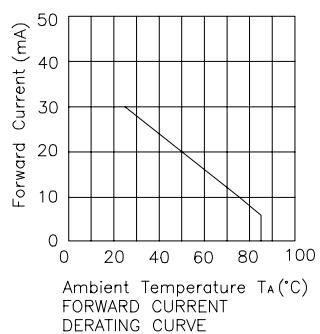
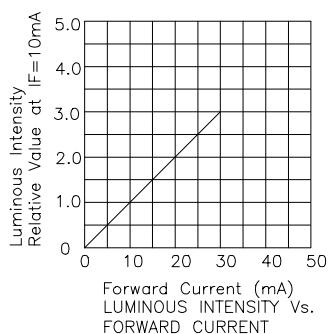
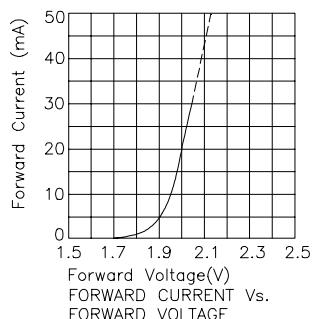
Parameter	High Efficiency Red	Super Bright Red	Yellow	Green	Units
Power dissipation	105	100	105	105	mW
DC Forward Current	30	30	30	25	mA
Peak Forward Current [1]	160	155	140	140	mA
Reverse Voltage	5	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 5 Seconds				

Notes:

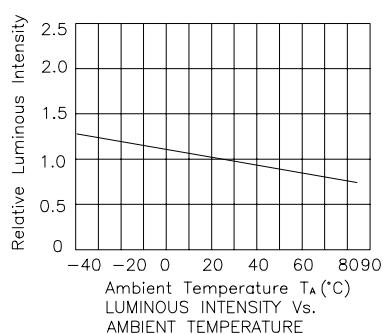
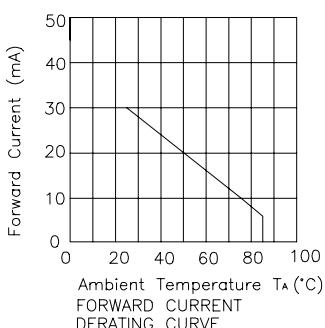
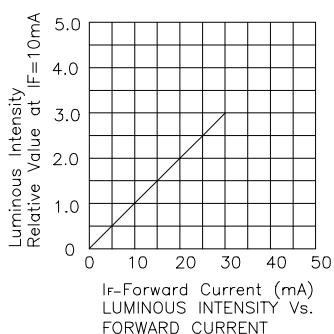
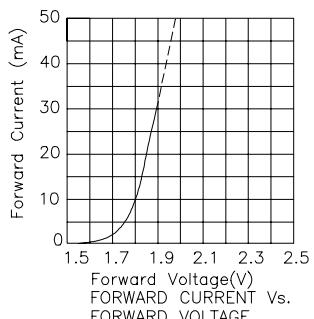
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.



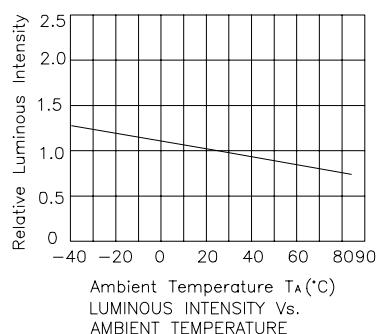
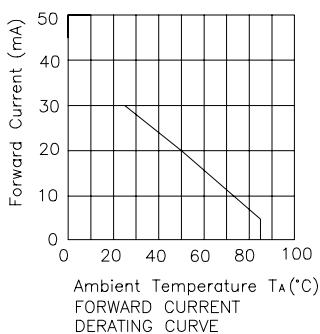
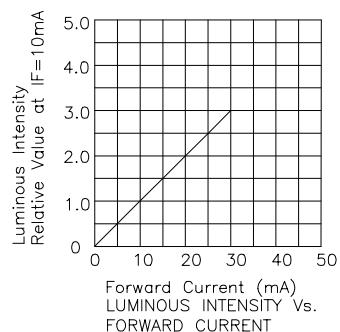
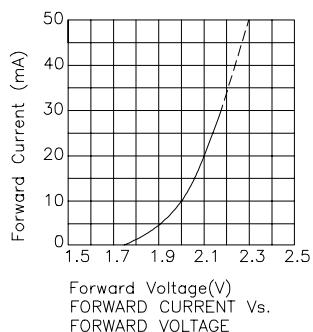
High Efficiency Red



Super Bright Red



Yellow



Green

