

SA15-11EWA/GWA/YWA/SRWA
 SC15-11EWA/GWA/YWA/SRWA
 SBA15-11EGWA
 SBC15-11EGWA

Features

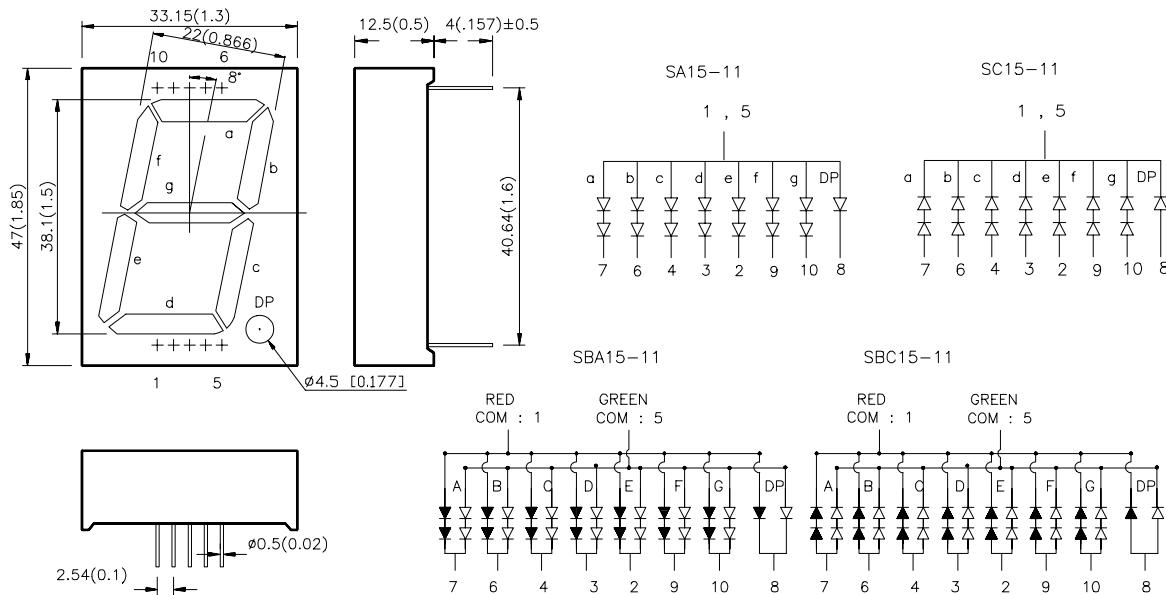
- 1.5 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- HIGH LIGHT OUTPUT.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- I.C. COMPATIBLE.
- MULTICOLOR AVAILABLE.
- CATEGORIZED FOR LUMINOUS INTENSITY,
YELLOW AND GREEN CATEGORIZED FOR COLOR.
- MECHANICALLY RUGGED.
- STANDARD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

Description

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

SA/SC15-11
SBA/SBC15-11



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.

Selection Guide

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

Electrical / Optical Characteristics at T_A=25°C

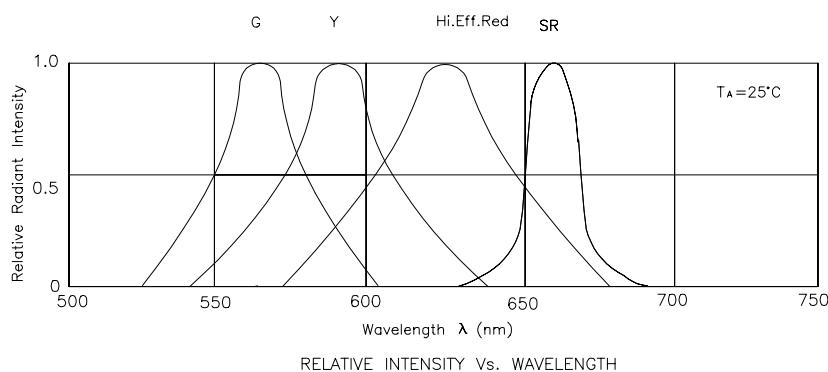
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	High Efficiency Red Green Yellow Super Bright Red	627 565 590 660		nm	I _F =20mA
λ D	Dominate Wavelength	High Efficiency Red Green Yellow Super Bright Red	625 568 588 640		nm	I _F =20mA
Δλ1/2	Spectral Line Halfwidth	High Efficiency Red Green Yellow Super Bright Red	45 30 35 20		nm	I _F =20mA
C	Capacitance	High Efficiency Red Green Yellow Super Bright Red	15 15 20 45		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red Green Yellow Super Bright Red	2.0 2.2 2.1 1.85	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 $T_A=25^\circ\text{C}$

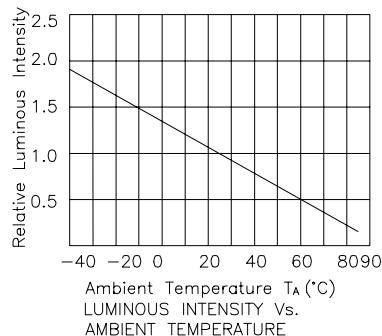
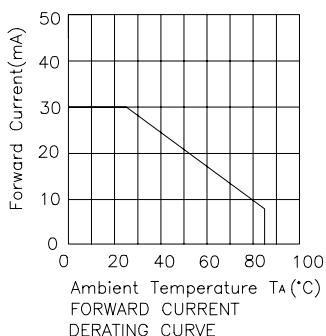
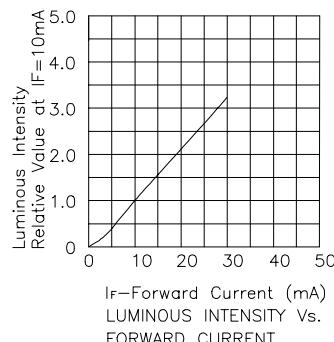
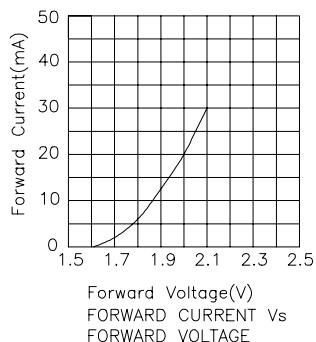
Parameter	High Efficiency Red	Green	Yellow	Super Bright Red	Units
Power dissipation	105	105	105	100	mW
DC Forward Current	30	25	30	30	mA
Peak Forward Current [1]	160	140	140	155	mA
Reverse Voltage	5	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 5 Seconds				

Notes:

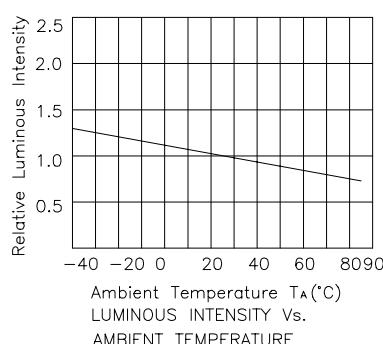
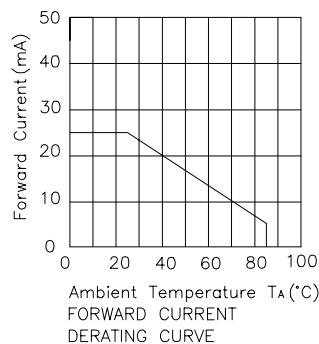
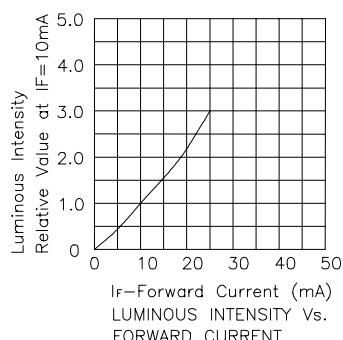
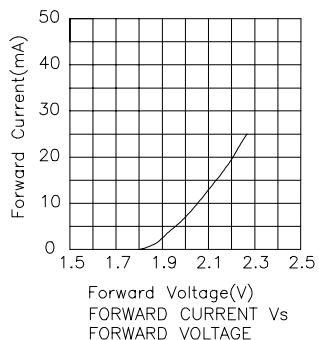
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.



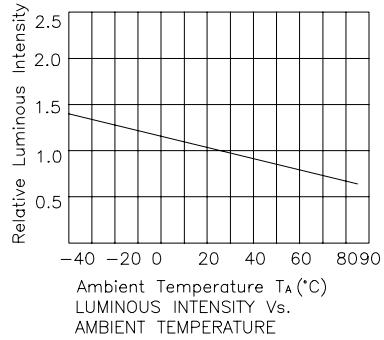
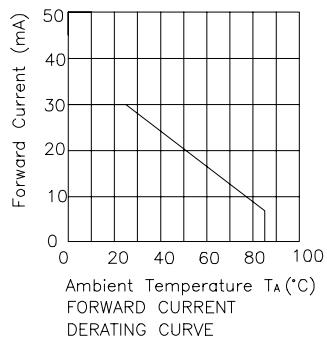
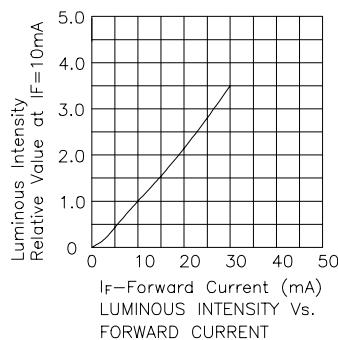
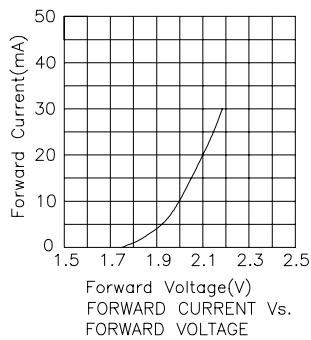
High Efficiency Red



Green



Yellow



Super Bright Red

