Kingbright

38mm (1.5 INCH) SINGLE DIGIT **NUMERIC DISPLAYS**

SA15-11 SC15-11 SBA15-11 SBC15-11

Features

- •1.5 INCHDIGIT 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.

Package Dimensions

Description

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

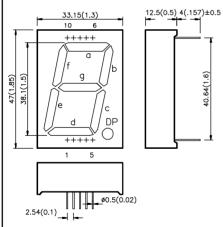
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

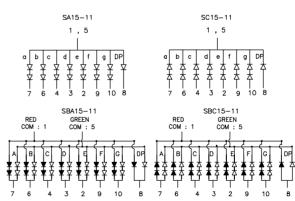
The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

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 .

Internal Circuit Diagram





Notes:

- All dimensions are in millimeters (inches),
- Tolerance is ±0.25(0.01")un less otherwise noted.

 2. Specifications are subjected to change whitout notice.

Selection Guide

Part No.	Dice	lv (ucd) @ 10 mA		5	
		Min.	Max.	Description	
SA15-11HWA	PRICUT PED (C-P)	900	2200	Common Anode, Rt Hand Decimal	
SC15-11HWA	BRIGHT RED (GaP)			Common Cathode, Rt. Hand Decimal	
SA15-11EWA	HICH EFFICIENCY BED (CoAcD/CoD)	3600	21000	Common Anode, Rt Hand Decimal	
SC15-11EWA	HIGH EFFICIENCY RED (GaAsP/GaP)			Common Cathode, Rt. Hand Decimal	
SA15-11GWA	CDEEN (CoD)	3600	9000	Common Anode, Rt Hand Decimal	
SC15-11GWA	GREEN (GaP)			Common Cathode, Rt. Hand Decimal	
SA15-11YWA	VELLOW (C-A-D/C-D)	3600	9000	Common Anode, Rt Hand Decimal	
SC15-11YWA	YELLOW (GaAsP/GaP)			Common Cathode, Rt. Hand Decimal	
SA15-11SRWA	CLIDED DDICLIT DED (CAMA)	14000	31000	Common Anode, Rt Hand Decimal	
SC15-11SRWA	SUPER BRIGHT RED (GaAlAs)			Common Cathode, Rt. Hand Decimal	
SBA15-11EGWA	HIGH EFFICIENCY RED (GaAsP/GaP)	3600	21000	Common Anode, Rt Hand Decimal	
SBC15-11EGWA	GREEN (GaP)	3600	9000	Common Cathode, Rt. Hand Decimal	

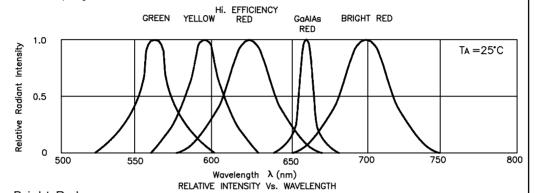
Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ. Max.		Units	Test Conditions	
$oldsymbol{\lambda}$ peak	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 TA=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.



Bright Red

