

BA56-11EWA/GWA/YWA/SRWA
BC56-11EWA/GWA/YWA/SRWA
BA56-12EWA/GWA/YWA/SRWA
BC56-12EWA/GWA/YWA/SRWA
BA56-13EWA/GWA/YWA/SRWA
BC56-13EWA/GWA/YWA/SRWA

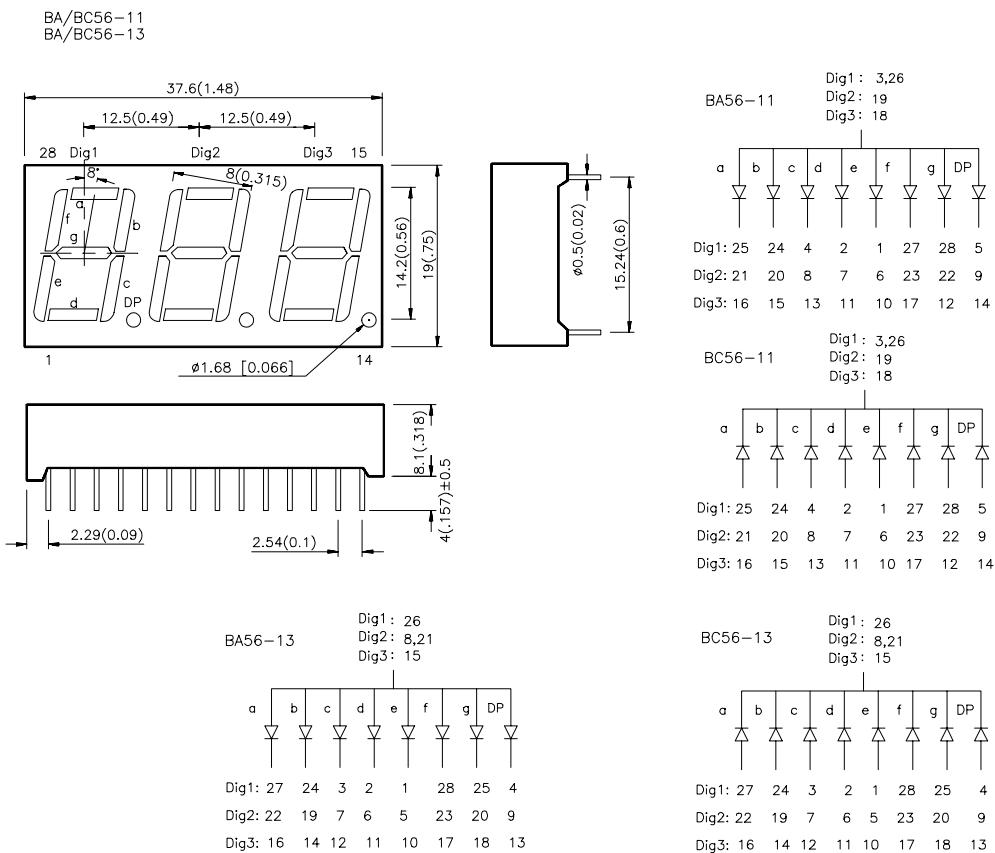
Features

- 0.56 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 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.

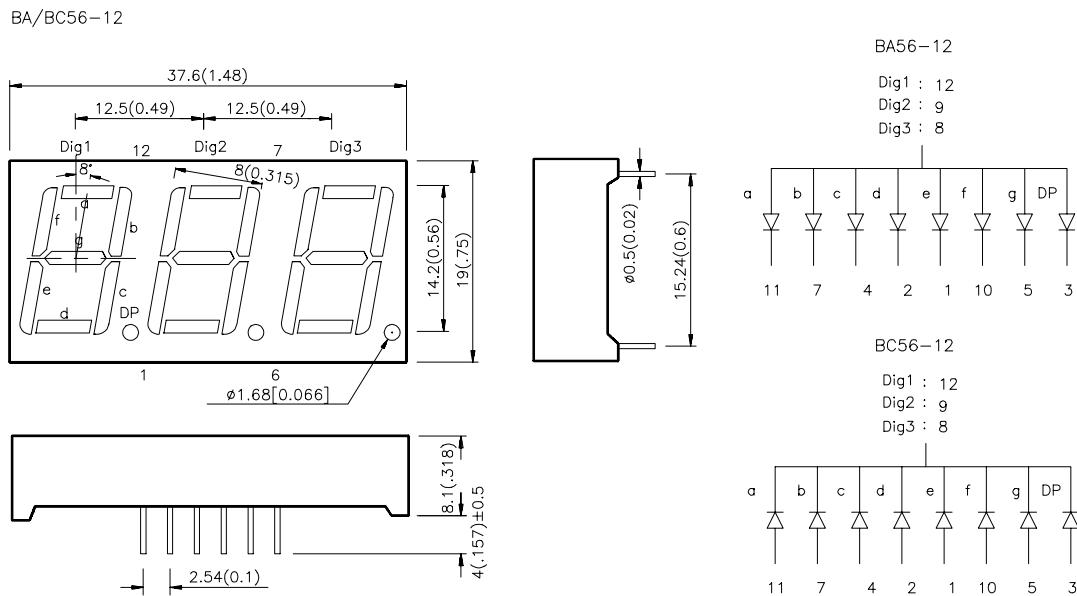
Package Dimensions & Internal Circuit Diagram



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.

Package Dimensions & Internal Circuit Diagram



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Selection Guide

Part No.	Dice	I _v (ucd) @ 10 mA		Description
		Min.	Typ.	
BA56-11EWA BA56-12EWA BA56-13EWA	HIGH EFFICIENCY RED (GaAsP/GaP)	1900	6400	Common Anode, Rt. Hand Decimal
BC56-11EWA BC56-12EWA BC56-13EWA				Common Cathode, Rt. Hand Decimal
BA56-11GWA BA56-12GWA BA56-13GWA	GREEN (GaP)	3000	10500	Common Anode, Rt. Hand Decimal
BC56-11GWA BC56-12GWA BC56-13GWA				Common Cathode, Rt. Hand Decimal
BA56-11YWA BA56-12YWA BA56-13YWA	YELLOW (GaAsP/GaP)	1900	4700	Common Anode, Rt. Hand Decimal
BC56-11YWA BC56-12YWA BC56-13YWA				Common Cathode, Rt. Hand Decimal
BA56-11SRWA BA56-12SRWA BA56-13SRWA	SUPER BRIGHT RED (GaAlAs)	8000	24000	Common Anode, Rt. Hand Decimal
BC56-11SRWA BC56-12SRWA BC56-13SRWA				Common Cathode, Rt. Hand Decimal

Electrical / Optical Characteristics at $T_A=25^\circ C$

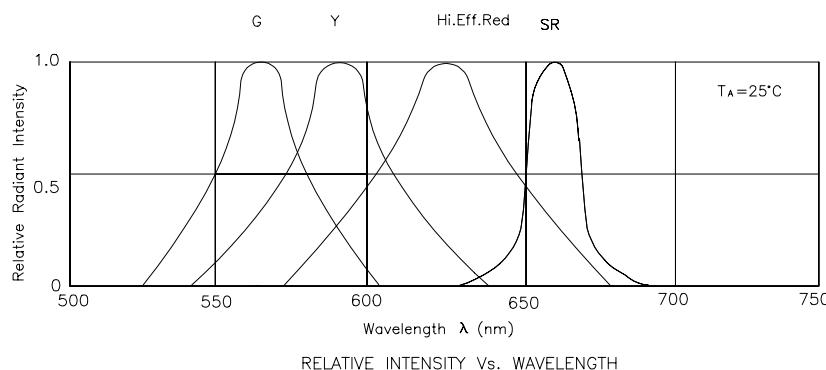
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red Green Yellow Super Bright Red	627 565 590 660		nm	IF=20mA
λ_D	Dominant Wavelength	High Efficiency Red Green Yellow Super Bright Red	625 568 588 640		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	High Efficiency Red Green Yellow Super Bright Red	45 30 35 20		nm	IF=20mA
C	Capacitance	High Efficiency Red Green Yellow Super Bright Red	15 15 20 45		pF	VF=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	IF=20mA
I_R	Reverse Current	All		10	uA	VR = 5V

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

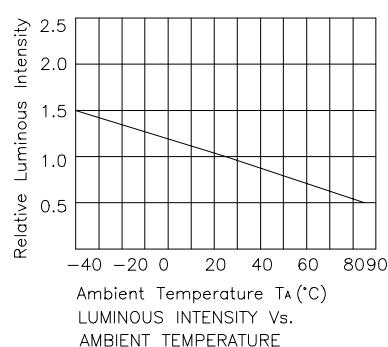
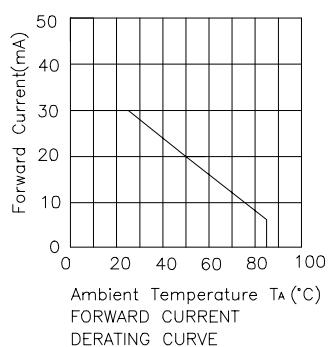
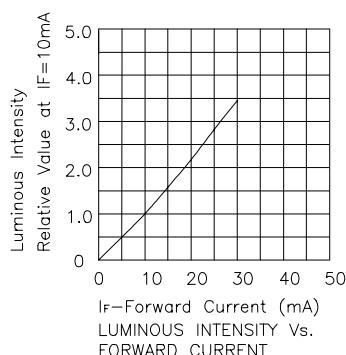
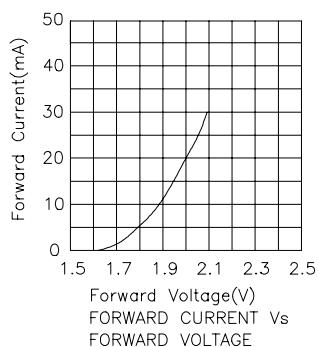
Parameter	High Efficiency Red	Green	Yellow	Super Bright Red	Units
Power dissipation	105	105	105	100	mW
DC Forward Current	30	25	30	30	mA
Peak Forward Current [1]	160	140	140	155	mA
Reverse Voltage	5	5	5	5	V
Operation/Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 5 Seconds				

Notes:

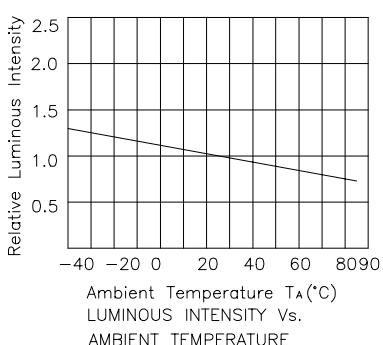
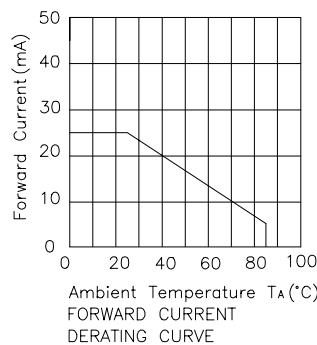
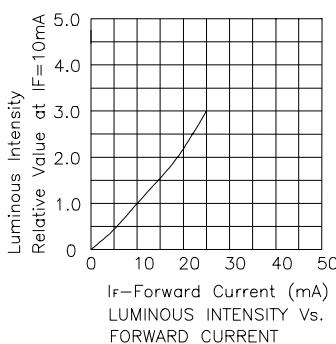
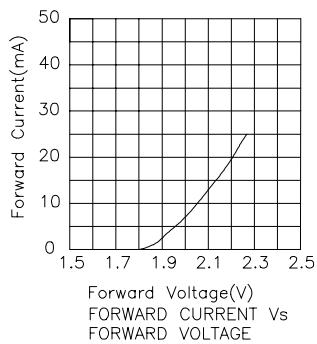
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.



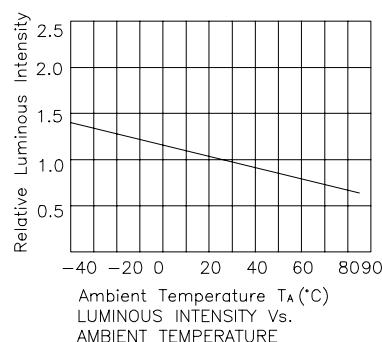
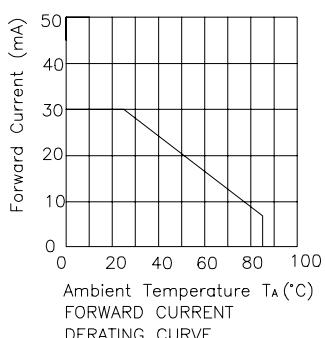
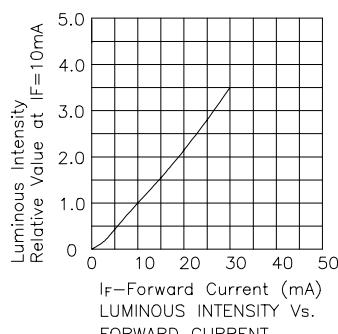
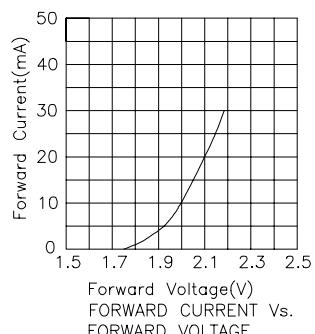
High Efficiency Red



Green



Yellow



Super Bright Red

