

Features

- ### Description

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

CA/CC56-11

50.3(1.98)

12.7(0.5) 12.7(0.5) 12.7(0.5)

8(.315)

19(.748)

14.2(0.56)

4(.157)±0.5

15.24(0.6)

CC56-11

CA56-11

Pin 1

2.54(.1)

ø0.5(0.02)

ø1.5 [0.059]

8.1(.315)

Dig1

a b c d e f g DP

34 33 3 2 1 36 35 4

Dig2

a b c d e f g DP

29 28 8 6 5 30 7 9

Dig3

a b c d e f g DP

25 24 12 11 10 27 26 13

Dig4

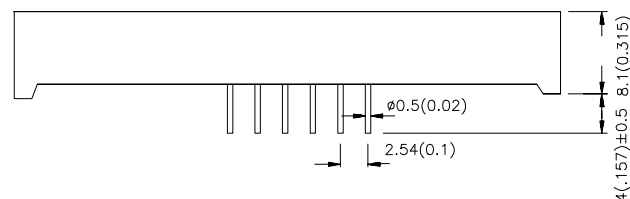
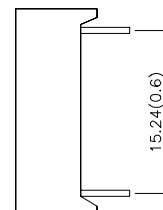
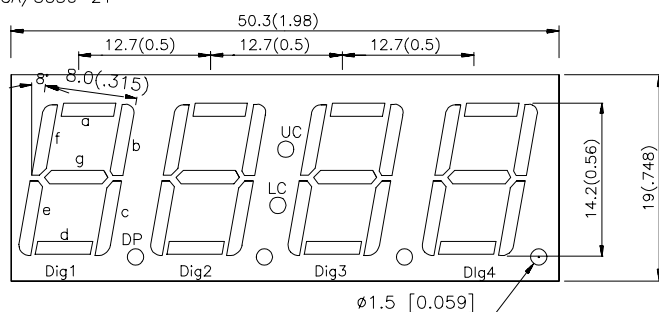
a b c d e f g DP

20 19 17 15 14 21 16 18

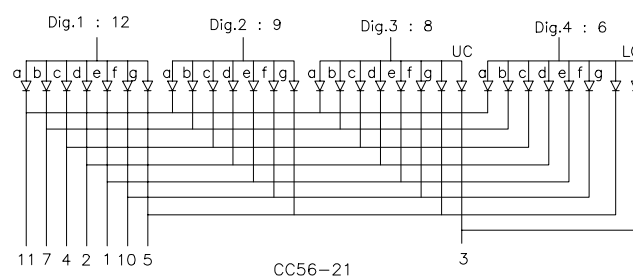
1. All dimensions are in millimeters (inches), Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.

Package Dimensions & Internal Circuit Diagram

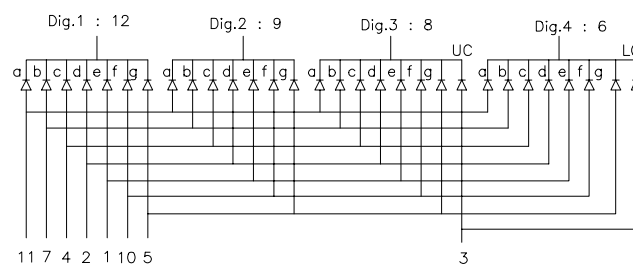
CA/CC56-12
CA/CC56-21



CA56-21

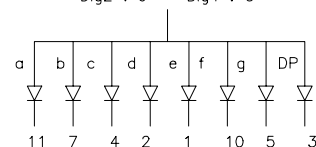


CC56-21



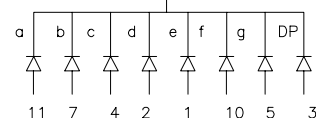
CA56-12

Dig1 : 12 Dig3 : 8
Dig2 : 9 Dig4 : 6



CC56-12

Dig1 : 12 Dig3 : 8
Dig2 : 9 Dig4 : 6



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	Iv (ucd) @ 10 mA		Description
		Min.	Typ.	
CA56-11EWA CA56-12EWA CA56-21EWA	HIGH EFFICIENCY RED (GaAsP/GaP)	1900	6400	Common Anode, Rt Hand Decimal
CC56-11EWA CC56-12EWA CC56-21EWA				Common Cathode, Rt. Hand Decimal
CA56-11GWA CA56-12GWA CA56-21GWA	GREEN (GaP)	3000	10500	Common Anode, Rt Hand Decimal
CC56-11GWA CC56-12GWA CC56-21GWA				Common Cathode, Rt. Hand Decimal
CA56-11YWA CA56-12YWA CA56-21YWA	YELLOW (GaAsP/GaP)	1900	4700	Common Anode, Rt Hand Decimal
CC56-11YWA CC56-12YWA CC56-21YWA				Common Cathode, Rt. Hand Decimal
CA56-11SRWA CA56-12SRWA CA56-21SRWA	SUPER BRIGHT RED (GaAlAs)	8000	24000	Common Anode, Rt Hand Decimal
CC56-11SRWA CC56-12SRWA CC56-21SRWA				Common Cathode, Rt. Hand Decimal

Electrical / Optical Characteristics at T_A=25°C

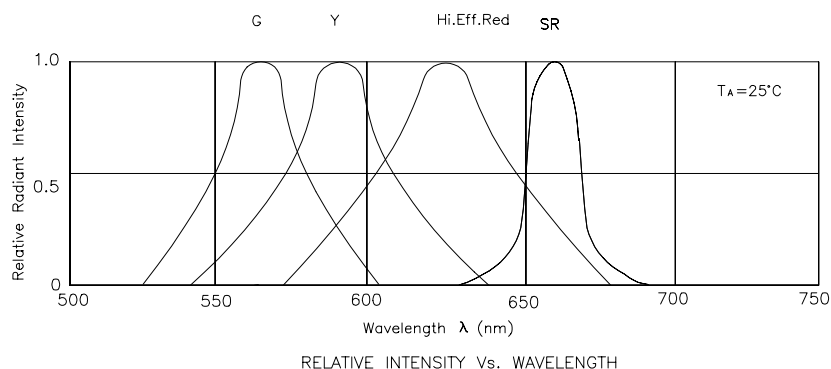
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red Green Yellow Super Bright Red	627 565 590 660		nm	IF=20mA
λ_D	Dominate Wavelength	High Efficiency Red Green Yellow Super Bright Red	625 568 588 640		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	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 $T_A=25^\circ\text{C}$

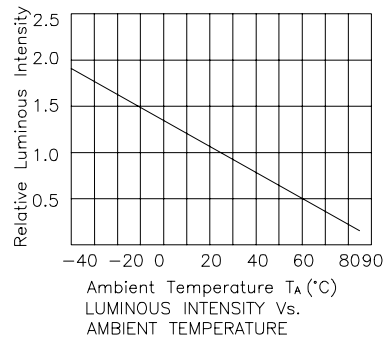
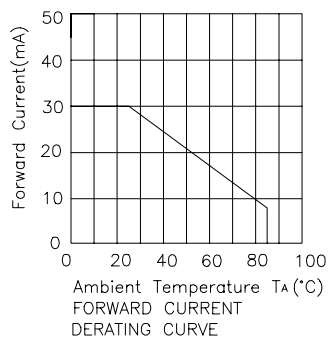
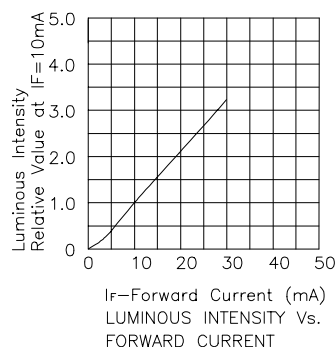
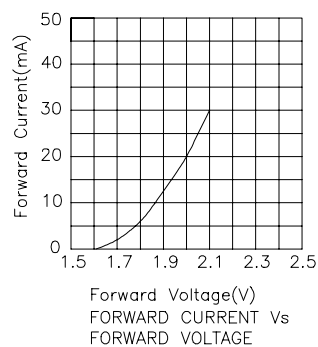
Parameter	High Efficiency Red	Green	Yellow	Super Bright Red	Units
Power dissipation	105	105	105	100	mW
DC Forward Current	30	25	30	30	mA
Peak Forward Current [1]	160	140	140	155	mA
Reverse Voltage	5	5	5	5	V
Operating/Storage Temperature	-40°C To $+85^\circ\text{C}$				
Lead Solder Temperature [2]	260°C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

Notes:

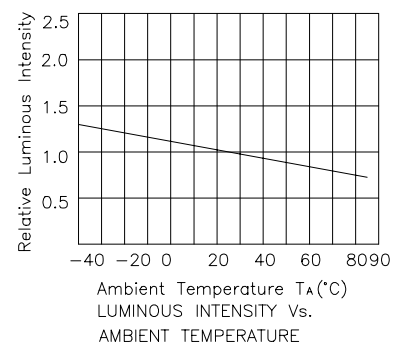
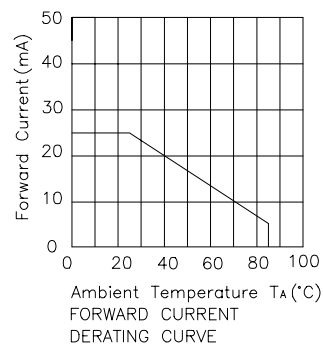
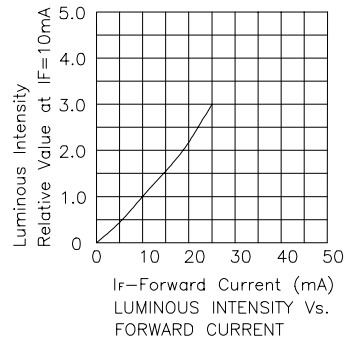
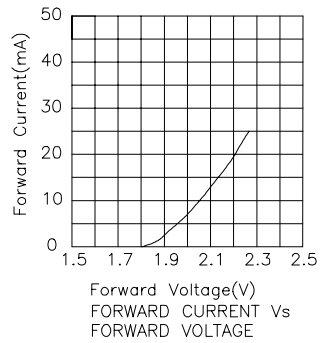
- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 4mm below package base.



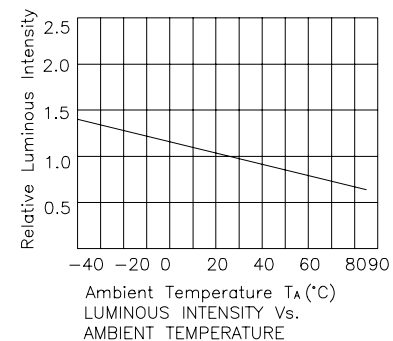
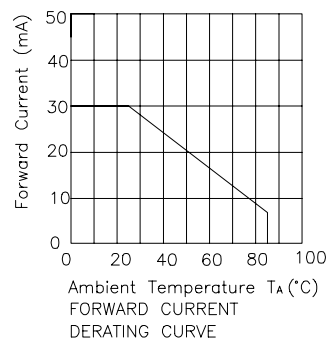
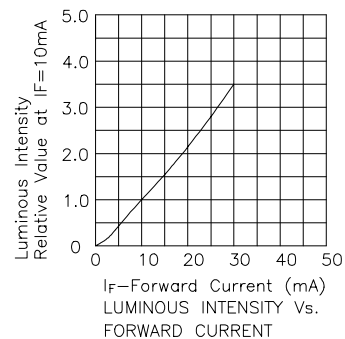
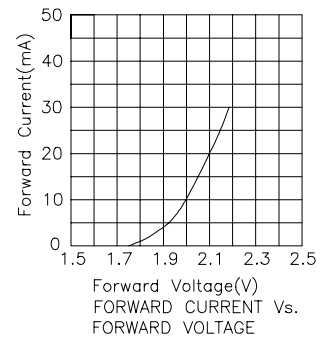
High Efficiency Red



Green



Yellow



Super Bright Red

