Kingbright®

14mm (0.56INCH) SINGLE DIGIT NUMERIC DISPLAYS

SA56-11 SC56-11 SA56-21 SC56-21 FA56-11 FC56-11

Features

- •0.56 INCH DIGIT HEIGHT.
- •LOW CURRENT OPERATION.
- •EXCELLENT CHARACTER APPEARANCE.
- •UNIVERSAL 1. OVERFLOW AVAILABLE.
- •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.

Package Dimensions & Internal Circuit Diagram

Description

The Red source color device are made with Gallium

Arsendide Phosphide Red Light Emitting Diode.

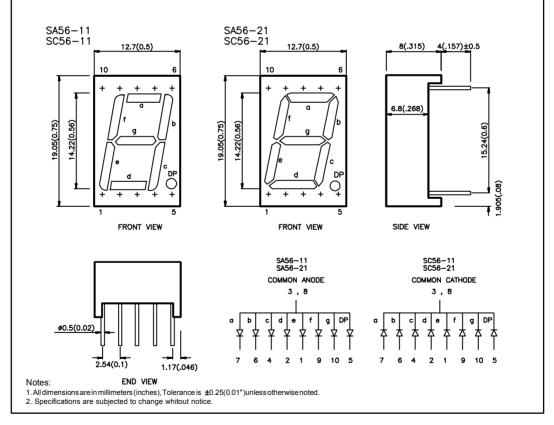
The Bright Red source color devices are made with Gallium Phosphide Red Light Emitting Diode.

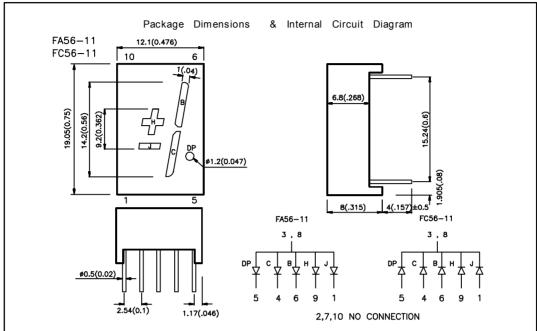
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

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.





Selection Guide

Part No.	Dice	lv (ucd) @ 10 mA		Description	
		Min.	Max.	Description	
SA56-11RWA SA56-21RWA FA56-11RWA	DED (CAA-D)	240	560	Common Anode, Rt. Hand Decimal	
SC56-11RWA SC56-21RWA FC56-11RWA	RED (GaAsP)			Common Cathode, Rt. Hand Decimal	
SA56-11HWA SA56-21HWA FA56-11HWA	BRIGHT RED (GaP)	560	1400	Common Anode, Rt. Hand Decimal	
SC56-11HWA SC56-21HWA FC56-11HWA	BRIGHT RED (GaP)			Common Cathode, Rt. Hand Decimal	
SA56-11EWA SA56-21EWA FA56-11EWA	HIGH EFFICIENCY RED (GaAsP/GaP)	2200	5600	Common Anode, Rt. Hand Decimal	
SC56-11EWA SC56-21EWA FC56-11EWA	HIGH EFFICIENCY RED (GaASF/GaF)			Common Cathode, Rt. Hand Decimal	
SA56-11GWA SA56-21GWA FA56-11GWA	GREEN (GaP)	5600	14000	Common Anode, Rt. Hand Decimal	
SC56-11GWA SC56-21GWA FC56-11GWA	GREEN (Gar)			Common Cathode, Rt. Hand Decimal	
SA56-11YWA SA56-21YWA FA56-11YWA	VELLOW (CoAoR/CoR)	2200	5600	Common Anode, Rt. Hand Decimal	
SC56-11YWA SC56-21YWA FC56-11YWA	YELLOW (GaAsP/GaP)			Common Cathode, Rt. Hand Decimal	
SA56-11SRWA SA56-21SRWA FA56-11SRWA	CLIDED DDICLIT DED (CAALAA)	5600	00 21000	Common Anode, Rt. Hand Decimal	
SC56-11SRWA SC56-21SRWA FC56-11SRWA	SUPER BRIGHT RED (GaAIAs)			Common Cathode, Rt. Hand Decimal	

Electrical / Optical Characteristics at T_A =25° C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λ peak	Peak Wavelength	Red Bright Red High Efficiency Red Green Yellow Super Bright Red	660 700 625 565 590 660		nm	IF=20mA	
Δλ1/2	Spectral Line Halfwidth	Red Bright Red High Efficiency Red Green Yellow Super Bright Red	20 45 45 30 35 20		nm	IF=20mA	
С	Capacitance	Red Bright Red High Efficiency Red Green Yellow Super Bright Red	40 40 12 45 10 95		pF	VF=0V;f=1MHz	
V _F	Forward Voltage	Red Bright Red High Efficiency Red Green Yellow Super Bright Red	1.7 2.0 2.0 2.2 2.1 1.85	2.1 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 T_A =25°C

Parameter	Red	Bright Red	High Efficiency Red	Green	Yellow	Super Bright Red	Units
Power dissipation	120	120	105	105	105	100	mW
DC Forward Current	30	25	30	25	30	30	mA
Peak Forward Current [1]	150	150	150	150	150	150	mA
Reverse Voltage	5	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.

