

14.2mm (0.56INCH) SINGLE DIGIT NUMERIC DISPLAYS

SA56-11EWA/GWA/YWA/SRWA SC56-11EWA/GWA/YWA/SRWA SA56-21EWA/GWA/YWA/SRWA SC56-21EWA/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

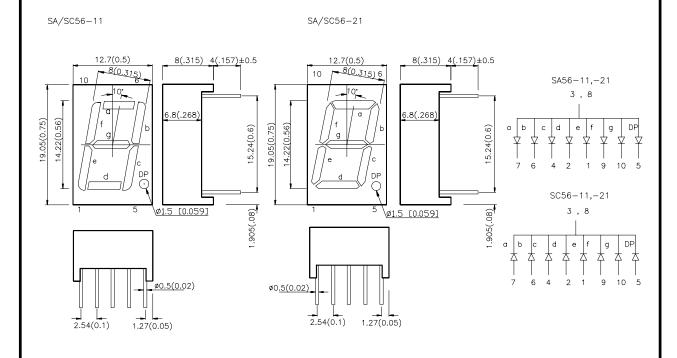
The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

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 whitout notice.

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Selection Guide

Part No.	Dice	lv (ucd) @ 10 mA		Description	
		Min.	Тур.	Безсприон	
SA56-11EWA SA56-21EWA	HIGH EFFICIENCY RED (GaAsP/GaP)	1900	6400	Common Anode.Rt. Hand Decimal	
SC56-11EWA SC56-21EWA	HIGH EFFICIENCT RED (GAASF/GAF)			Common Cathode.Rt. Hand Decimal	
SA56-11GWA SA56-21GWA	CDEEN (CoD)	3000	10500	Common Anode.Rt. Hand Decimal	
SC56-11GWA SC56-21GWA	- GREEN (GaP)			Common Cathode.Rt. Hand Decimal	
SA56-11YWA SA56-21YWA	VELLOW (CoAcD(CoD)	1900	4700	Common Anode.Rt. Hand Decimal	
SC56-11YWA SC56-21YWA	YELLOW (GaAsP/GaP)			Common Cathode.Rt. Hand Decimal	
SA56-11SRWA SA56-21SRWA	CURER PRICUIT RED (COAMA-)	8000	24000	Common Anode.Rt. Hand Decimal	
SC56-11SRWA SC56-21SRWA	SUPER BRIGHT RED (GaAlAs)			Common Cathode.Rt. Hand Decimal	

Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	High Efficiency Red Green Yellow Super Bright Red	627 565 590 660		nm	IF=20mA	
λD	Dominate Wavelength	High Efficiency Red Green Yellow Super Bright Red	625 568 588 640		nm	IF=20mA	
Δλ1/2	Spectral Line Halfwidth	High Efficiency Red Green Yellow Super Bright Red	45 30 35 20		nm	IF=20mA	
С	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 2.5	V	IF=20mA	
l _R	Reverse Current	All		10	uA	VR = 5V	

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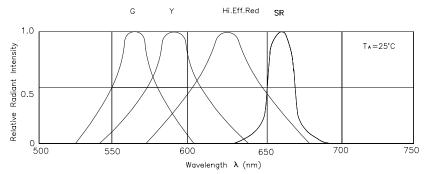


Absolute Maximum Ratings at T_A=25°C

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						

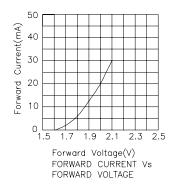
Notes

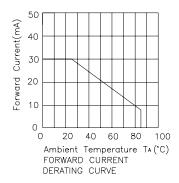
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 4mm below package base.

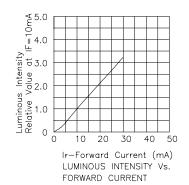


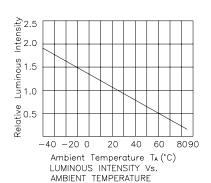
RELATIVE INTENSITY Vs. WAVELENGTH

High Efficiency Red





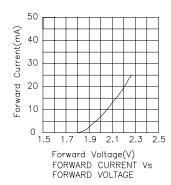


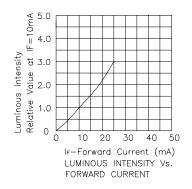


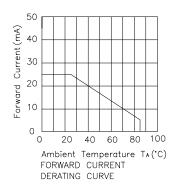
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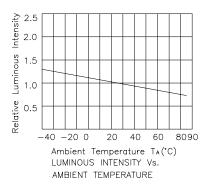
Kingbright

Green

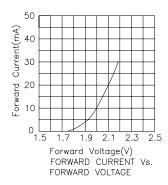


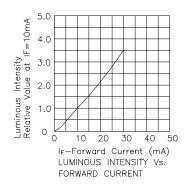


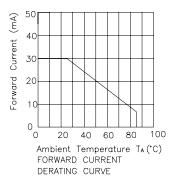


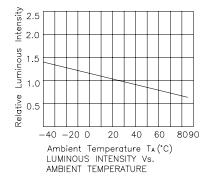


Yellow





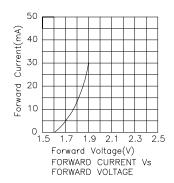


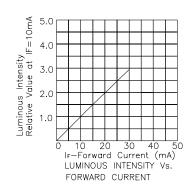


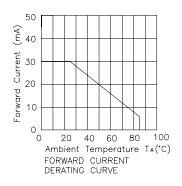
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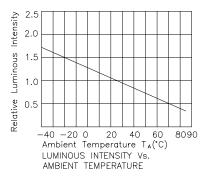


Super Bright Red









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