

12.7mm (0.5INCH) SINGLE DIGIT NUMERIC DISPLAYS

SA05-11EWA/GWA/YWA/SRWA SC05-11EWA/GWA/YWA/SRWA

Features

- •0.5 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.

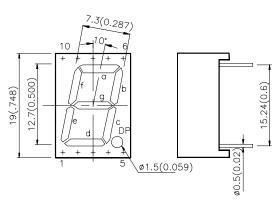
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

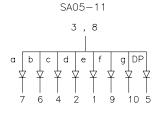
The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

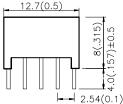
The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

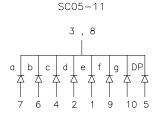
Package Dimensions & Internal Circuit Diagram

SA05-11 SC05-11









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.

SPEC NO: CDA0851 APPROVED:J.LU REV NO: V.1 CHECKED:

DATE: NOV/18/2001 DRAWN: S.H.CHEN PAGE: 1 OF 5



Selection Guide

Part No.	Dice	lv (ucd) @ 10 mA		D	
		Min.	Тур.	Description	
SA05-11EWA		3000	8000	Common Anode, Rt Hand Decimal	
SC05-11EWA	HIGH EFFICIENCY RED (GaAsP/GaP)			Common Cathode, Rt. Hand Decimal	
SA05-11GWA		3000	10500	Common Anode, Rt Hand Decimal	
SC05-11GWA	GREEN (GaP)			Common Cathode, Rt. Hand Decimal	
SA05-11YWA		1900	4700	Common Anode, Rt Hand Decimal	
SC05-11YWA	YELLOW (GaAsP/GaP)			Common Cathode, Rt. Hand Decimal	
SA05-11SRWA		8000	24000	Common Anode, Rt Hand Decimal	
SC05-11SRWA	SUPER BRIGHT RED (GaAlAs)			Common Cathode, Rt. Hand Decimal	

Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device Typ.		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	V	IF=20mA	
l _R	Reverse Current	All		10	uA	VR = 5V	

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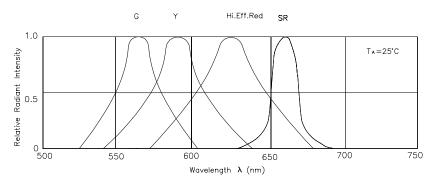
DATE: NOV/18/2001 DRAWN: S.H.CHEN PAGE: 2 OF 5



Absolute Maximum Ratings at T_A=25°C

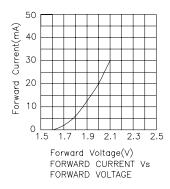
Parameter	High Efficiency Red	Green	Yellow	Super Bright Red	Units		
Power dissipation	105	105	105	100	mW		
DC Forward Current	30	25	30	30	mA		
Peak Forward Current [1]	160	140	140	155	mA		
Reverse Voltage	5	5	5	5	V		
Operating/Storage Temperature	-40°C To +85°C						
Lead Solder Temperature [2]	260°C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

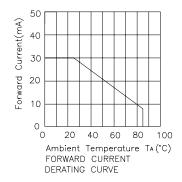
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
 2. 4mm below package base.

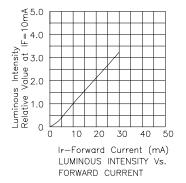


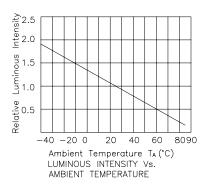
RELATIVE INTENSITY Vs. WAVELENGTH

High Efficiency Red







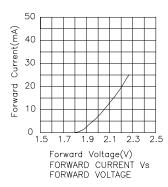


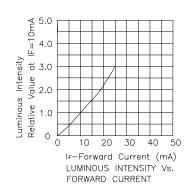
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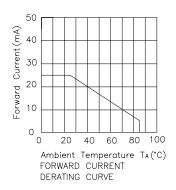
PAGE: 3 OF 5

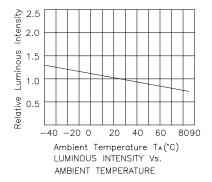
Kingbright

Green

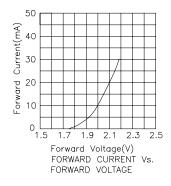


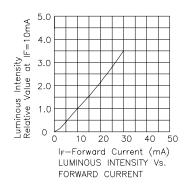


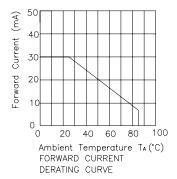


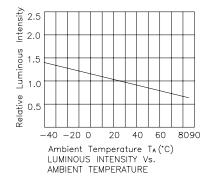


Yellow





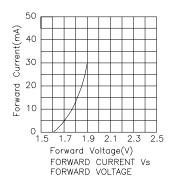


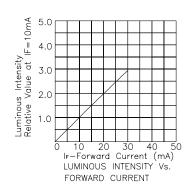


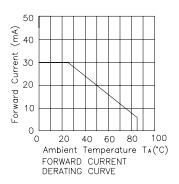
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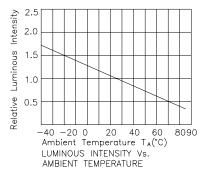
Kingbright

Super Bright Red









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