

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







# 7mm (0.3INCH) SINGLE DIGIT NUMERIC DISPLAY

P/N: SC03-12HDB

**BRIGHT RED** 

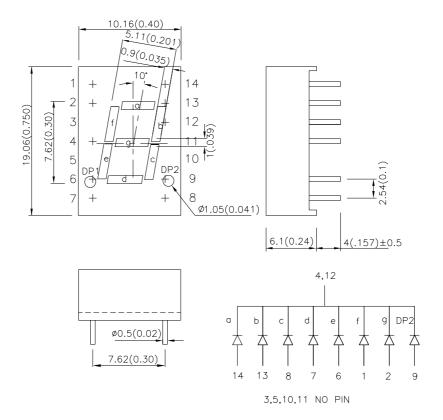
#### **Features**

- 0.3 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- I.C. COMPATIBLE.
- CATEGORIZED FOR LUMINOUS INTENSITY.
- MECHANICALLY RUGGED.
- STANDARD : BLACK FACE, RED SEGMENT.
- RoHS COMPLIANT.

### **Description**

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

SPEC NO: DSAB5483 APPROVED: J. Lu REV NO: V.4 CHECKED: Joe Lee DATE: MAY/09/2006 DRAWN: Z.Z.YANG PAGE: 1 OF 4 ERP: 1301000698

# **Kingbright**

#### **Selection Guide**

Part No.	Dice	lv (ucd) [1] Lens Type @ 10mA		,	Description	
			Min.	Тур.		
SC03-12HDB	BRIGHT RED (GaP)	RED DIFFUSED	480	1200	Common Cathode,Rt. Hand Decimal.	

Note:

## Electrical / Optical Characteristics at T<sub>A</sub>=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Bright Red	700		nm	IF=20mA
λD [1]	Dominant Wavelength	Bright Red	660		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Bright Red	45		nm	IF=20mA
С	Capacitance	Bright Red	40		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Bright Red	2.25	2.5	V	IF=20mA
lR	Reverse Current	Bright Red		10	uA	VR = 5V

#### Notes:

1.Wavelength: +/-1nm 2.Forward Voltage: +/-0.1V

### Absolute Maximum Ratings at Ta=25°C

Parameter	Bright Red	Units		
Power dissipation	120	mW		
DC Forward Current	25	mA		
Peak Forward Current [1]	130	mA		
Reverse Voltage	5	V		
Operating/Storage Temperature	erating/Storage Temperature -40°C To +85°C			
Lead Solder Temperature [2] 260°C For 5 Seconds				

#### Notes

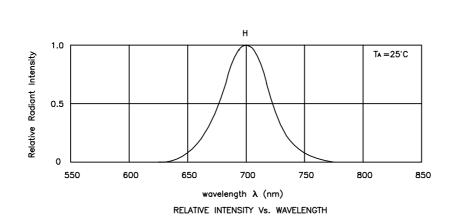
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.

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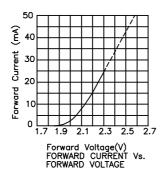
<sup>1.</sup> Luminous Intensity/ Luminous Flux: +/-15%

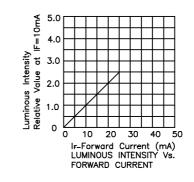
# Kingbright

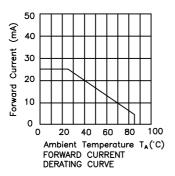


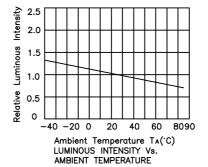
**Bright Red** 

**SC03-12HDB** 



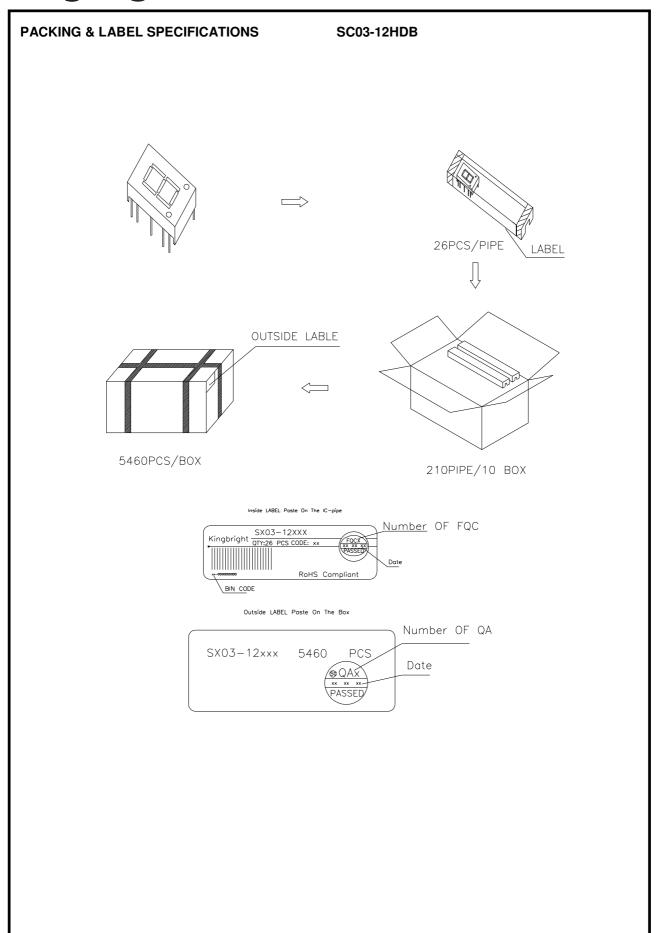






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