

P/N: SC03-12HDB

BRIGHT RED

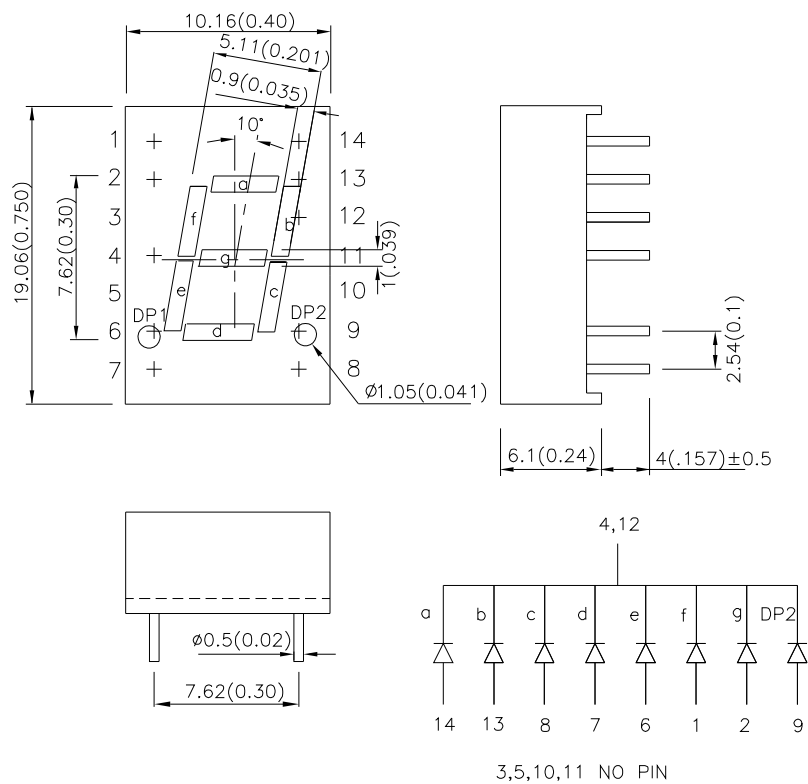
### Features

- 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.

## Selection Guide

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

Note:

1. Luminous Intensity/ Luminous Flux: +/-15%

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

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_{peak}$	Peak Wavelength	Bright Red	700		nm	I <sub>F</sub> =20mA
$\lambda_D$ [1]	Dominant Wavelength	Bright Red	660		nm	I <sub>F</sub> =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Bright Red	45		nm	I <sub>F</sub> =20mA
C	Capacitance	Bright Red	40		pF	V <sub>F</sub> =0V;f=1MHz
V <sub>F</sub> [2]	Forward Voltage	Bright Red	2.25	2.5	V	I <sub>F</sub> =20mA
I <sub>R</sub>	Reverse Current	Bright Red		10	uA	V <sub>R</sub> = 5V

Notes:

1.Wavelength: +/-1nm

2.Forward Voltage: +/-0.1V

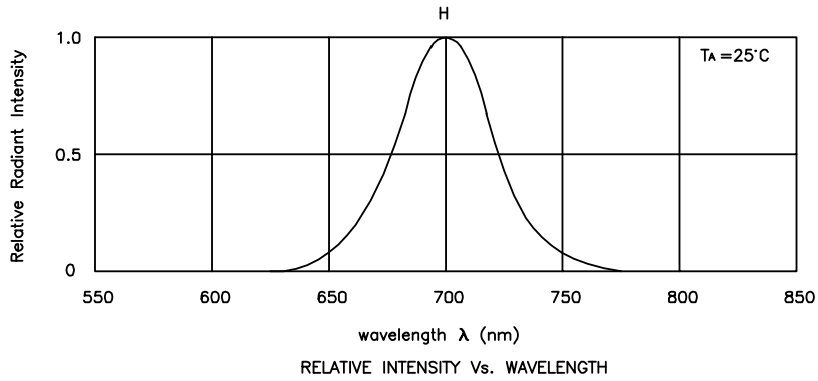
## Absolute Maximum Ratings at T<sub>A</sub>=25°C

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	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 5 Seconds	

Notes:

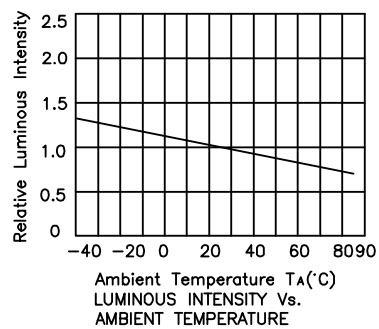
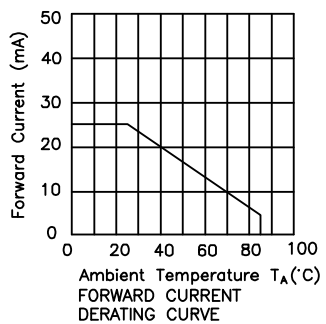
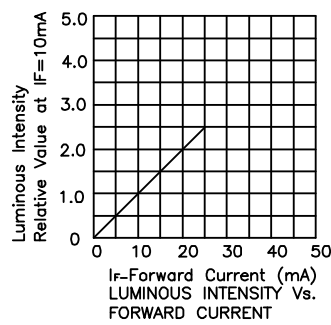
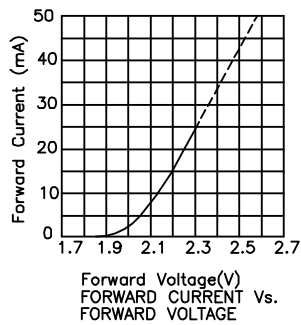
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.



**Bright Red**

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## PACKING & LABEL SPECIFICATIONS

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