Kingbright

7mm (0.3INCH) SINGLE DIGIT NUMERIC DISPLAY

P/N: SC03-12HDB BRIGHT RED

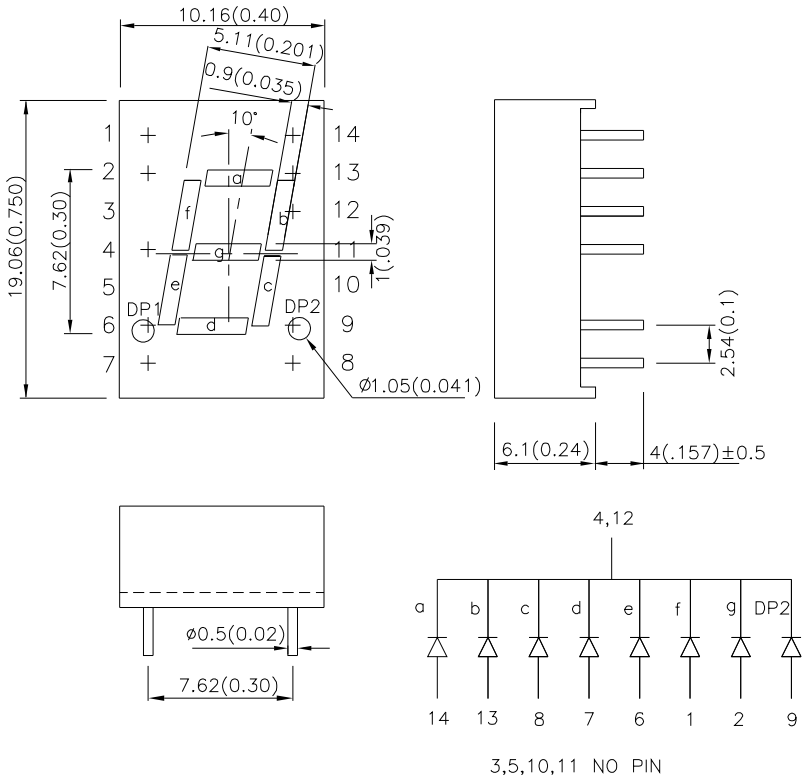
Features

- 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 ±0.25(0.01")unless otherwise noted.
2. Specifications are subject to change without notice.

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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_A=25°C

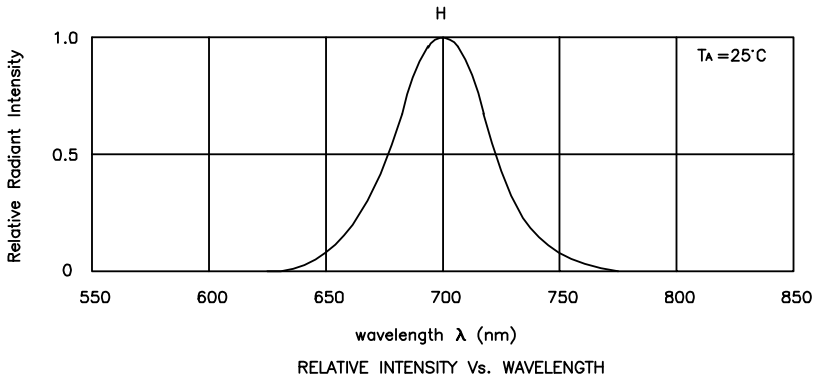
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Bright Red	700		nm	I_F=20mA
λD [1]	Dominant Wavelength	Bright Red	660		nm	I_F=20mA
Δλ1/2	Spectral Line Half-width	Bright Red	45		nm	I_F=20mA
C	Capacitance	Bright Red	40		pF	V_F=0V;f=1MHz
V_F [2]	Forward Voltage	Bright Red	2.25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

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

Absolute Maximum Ratings at T_A=25°C

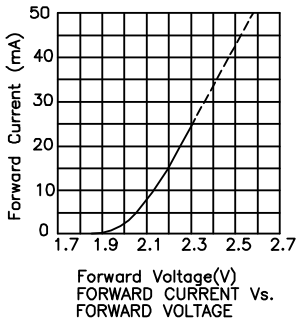
Parameter	Bright Red	Units
Power dissipation	120	mW
DC Forward Current	25	mA
Peak Forward Current [1]	130	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 5 Seconds	

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

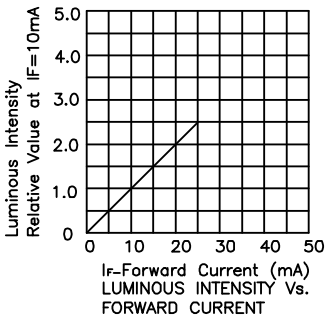


RELATIVE INTENSITY Vs. WAVELENGTH

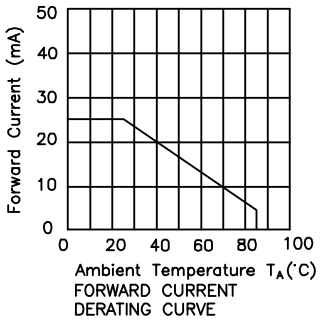
Bright Red **SC03-12HDB**



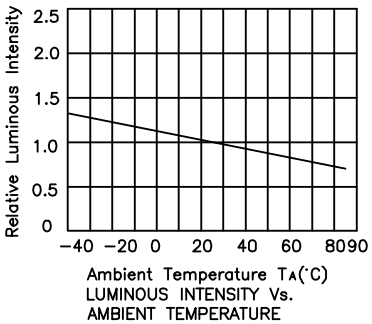
FORWARD CURRENT Vs.
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT

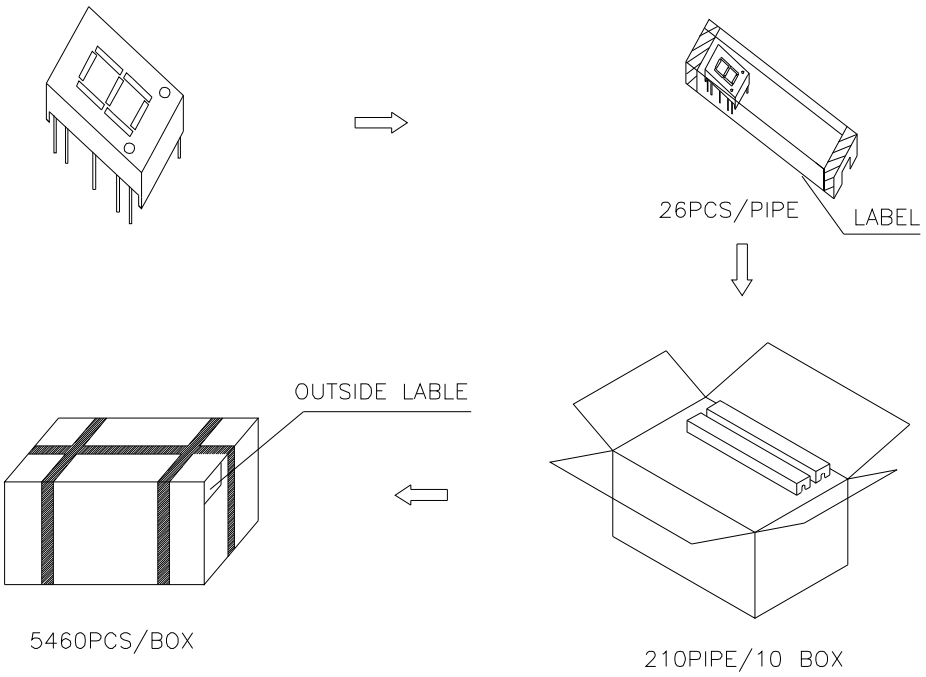


FORWARD CURRENT
DERATING CURVE

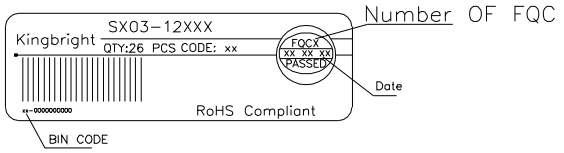


LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

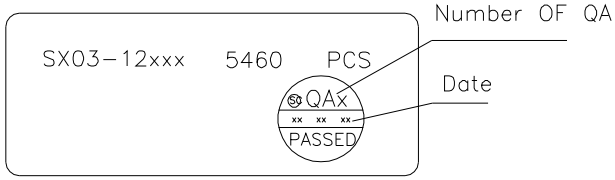
PACKING & LABEL SPECIFICATIONS **SC03-12HDB**



Inside LABEL Paste On The IC-pipe



Outside LABEL Paste On The Box



Mouser Electronics

Authorized Distributor

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