

## LED Displays

Order code	Manufacturer code	Description
57-0205	SC10-21HWA	SC10-21HWA 1" LED DISPLAY CATHODE RED RC

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The enclosed information is believed to be correct, Information may change without notice due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 20/02/2007

Part Number: SC10-21HWA

BRIGHT RED

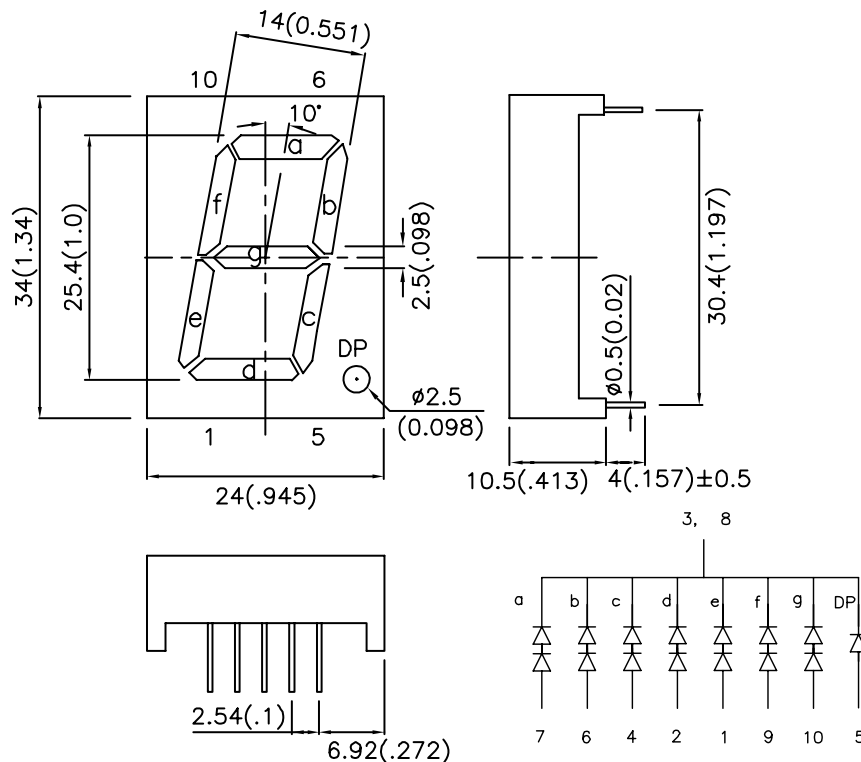
### Features

- 1.0 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- HIGH LIGHT OUTPUT.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- STANDARD : GRAY FACE, WHITE 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.	
SC10-21HWA	BRIGHT RED(GaP)	WHITE DIFFUSED	800	2925	Common Cathode,Rt. Hand Decimal.

Note:

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

## Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_{peak}$	Peak Wavelength	Bright Red	700		nm	IF=20mA
$\lambda_D$ [1]	Dominant Wavelength	Bright Red	660		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Bright Red	45		nm	IF=20mA
C	Capacitance	Bright Red	40		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage Per Segment or (Dp)	Bright Red	4.5 (2.25)	5.0 (2.5)	V	IF=20mA
IR	Reverse Current Per Segment or (Dp)	Bright Red		10	uA	VR = 10(5)V

Notes:

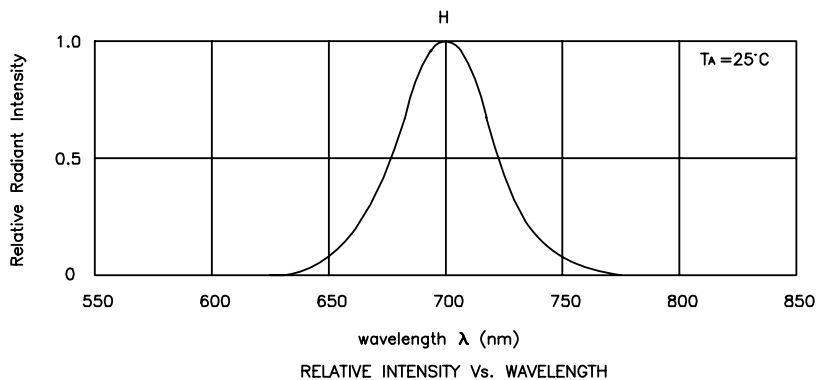
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

## Absolute Maximum Ratings at TA=25°C

Parameter	Bright Red	Units
Power dissipation Per Segment or (Dp)	125 (62.5)	mW
DC Forward Current Per Segment or (Dp)	25 (25)	mA
Peak Forward Current [1] Per Segment or (Dp)	130 (130)	mA
Reverse Voltage Per Segment or (Dp)	10 (5)	V
Operating / Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3-5 Seconds	

Notes:

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



## Bright Red

## SC10-21HWA

