

20 mm (0.8 inch) Seven Segment Displays

Technical Data

HDSP-340X Series
HDSP-390X Series
HDSP-420X Series
HDSP-860X Series
HDSP-N15X Series

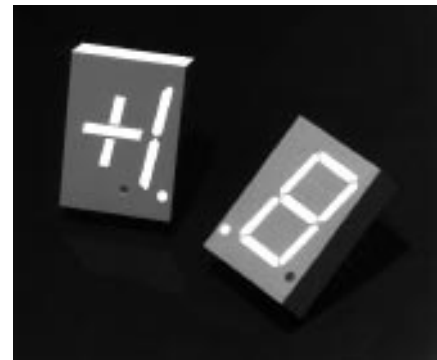
Features

- **Industry Standard Size**
- **Industry Standard Pinout**
15.24 mm (0.6 in.) DIP Leads on 2.54 mm (0.1 in.) Centers
- **Choice of Colors**
Red, AlGaAs Red, High Efficiency Red, Yellow, Green
- **Excellent Appearance**
Evenly Lighted Segments
Mitered Corners on Segments
Gray Package Gives Optimum Contrast
± 50° Viewing Angle
- **Design Flexibility**
Common Anode or Common Cathode
Left and Right Hand Decimal Points
± 1. Overflow Character
- **Categorized for Luminous Intensity**
Yellow and Green Categorized

- for Color
Use of Like Categories Yields a Uniform Display
- **High Light Output**
- **High Peak Current**
- **Excellent for Long Digit String Multiplexing Intensity and Color Selection Option**
See Intensity and Color Selected Displays Data Sheet
- **Sunlight Viewable AlGaAs**

Description

The 20 mm (0.8 inch) LED seven segment displays are designed for viewing distances up to 10 metres (33 feet). These devices use an industry standard size package and pinout. All devices are available as either common anode or common cathode.



These displays are ideal for most applications. Pin for pin equivalent displays are also available in a low current design. The low current displays are ideal for portable applications. For additional information see the Low Current Seven Segment Displays data sheet.

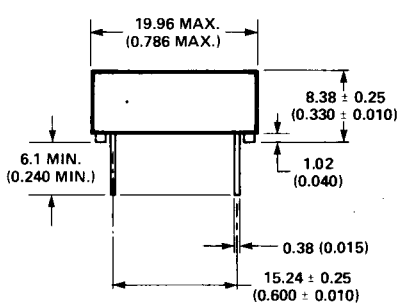
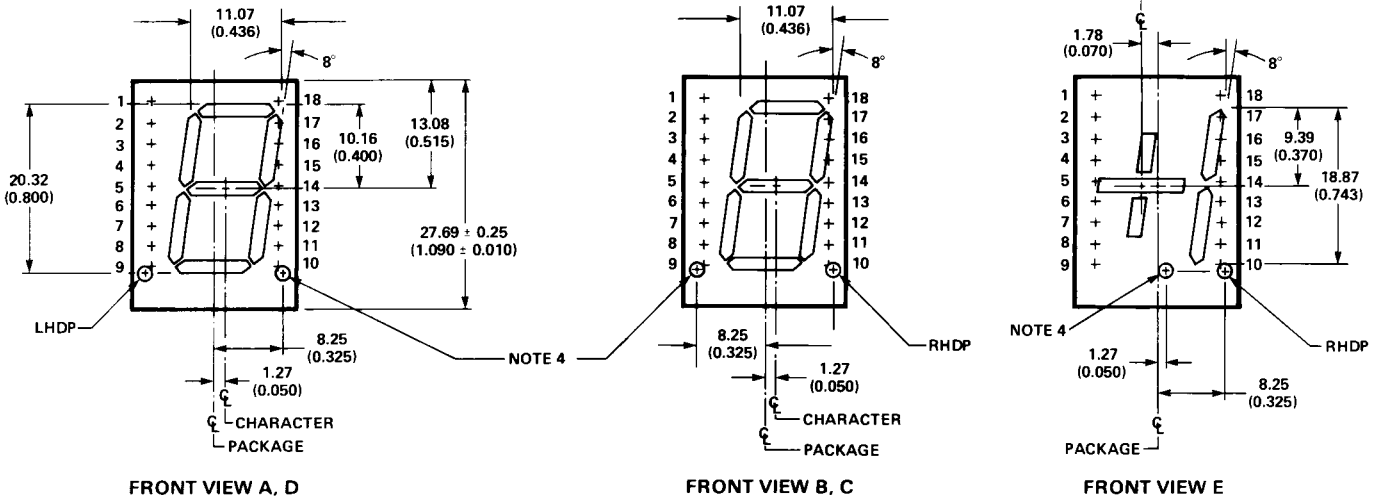
Devices

Red HDSP-	AlGaAs ^[1] HDSP-	HER HDSP-	Yellow HDSP-	Green HDSP-	Description	Package Drawing
3400	N150	3900	4200	8600	Common Anode Left Hand Decimal	A
3401	N151	3901	4201	8601	Common Anode Right Hand Decimal	B
3403	N153	3903	4203	8603	Common Cathode Right Hand Decimal	C
3405	N155	3905	4205	8605	Common Cathode Left Hand Decimal	D
3406	N156	3906	4206	8606	Universal ± 1. Overflow ^[2]	E

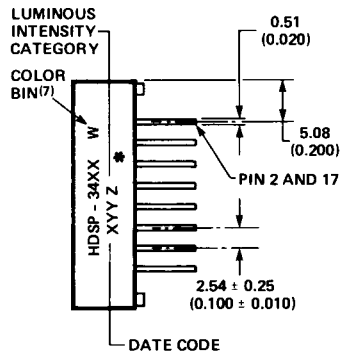
Notes:

1. These displays are recommended for high ambient light operation. Please refer to the HDSP-N10X AlGaAs data sheet for low current operation.
2. Universal pinout brings the anode and cathode of each segment's LED out to separate pins. See internal diagram E.

Package Dimensions



END VIEW



SIDE VIEW

*The Side View of package indicates Country of Origin.

Pin	Function				
	A	B	C	D	E
1	NO PIN	NO PIN	NO PIN	NO PIN	NO PIN
2	CATHODE a	CATHODE a	ANODE a	ANODE a	CATHODE a
3	CATHODE f	CATHODE f	ANODE f	ANODE f	ANODE d
4	ANODE ^[3]	ANODE ^[3]	CATHODE ^[6]	CATHODE ^[6]	CATHODE d
5	CATHODE e	CATHODE e	ANODE e	ANODE e	CATHODE c
6	ANODE ^[3]	ANODE ^[3]	CATHODE ^[6]	CATHODE ^[6]	CATHODE e
7	CATHODE dp	NO. CONNec.	NO. CONNec.	ANODE dp	ANODE e
8	NO PIN	NO PIN	NO PIN	NO PIN	CATHODE dp
9	NO PIN	NO PIN	NO PIN	NO PIN	NO PIN
10	NO PIN	CATHODE dp	ANODE dp	NO PIN	ANODE dp
11	CATHODE d	CATHODE d	ANODE d	ANODE d	CATHODE dp
12	ANODE ^[3]	ANODE ^[3]	CATHODE ^[6]	CATHODE ^[6]	CATHODE b
13	CATHODE c	CATHODE c	ANODE c	ANODE c	ANODE b
14	CATHODE g	CATHODE g	ANODE g	ANODE g	ANODE c
15	CATHODE b	CATHODE b	ANODE b	ANODE b	ANODE a
16	NO PIN	NO PIN	NO PIN	NO PIN	NO PIN
17	ANODE ^[3]	ANODE ^[3]	CATHODE ^[6]	CATHODE ^[6]	CATHODE a
18	NO PIN	NO PIN	NO PIN	NO PIN	NO PIN

- NOTES:
 1. DIMENSIONS IN MILLIMETERS AND (INCHES).
 2. ALL UNTOLERANCED DIMENSIONS ARE FOR REFERENCE ONLY.
 3. REDUNDANT ANODES.
 4. UNUSED dp POSITION.
 5. SEE INTERNAL CIRCUIT DIAGRAM.
 6. REDUNDANT CATHODES.
 7. FOR HDSP-4200/-8600 SERIES PRODUCT ONLY.

Internal Circuit Diagram

