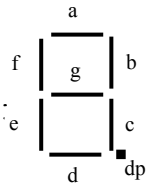
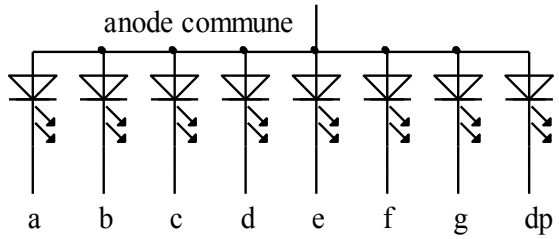
Affichage simple et affichage multiplexé pour afficheurs 7 segments.

Rappels concernant les afficheurs 7 segments.

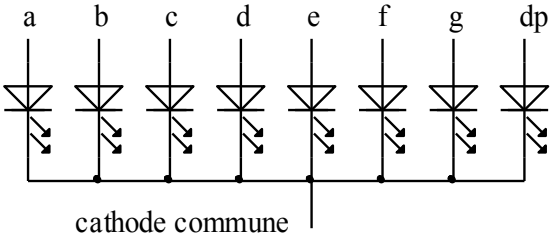


- Disposition la plus courante des segments sur l'afficheur :
- Structures internes des afficheurs :

afficheur à anode commune

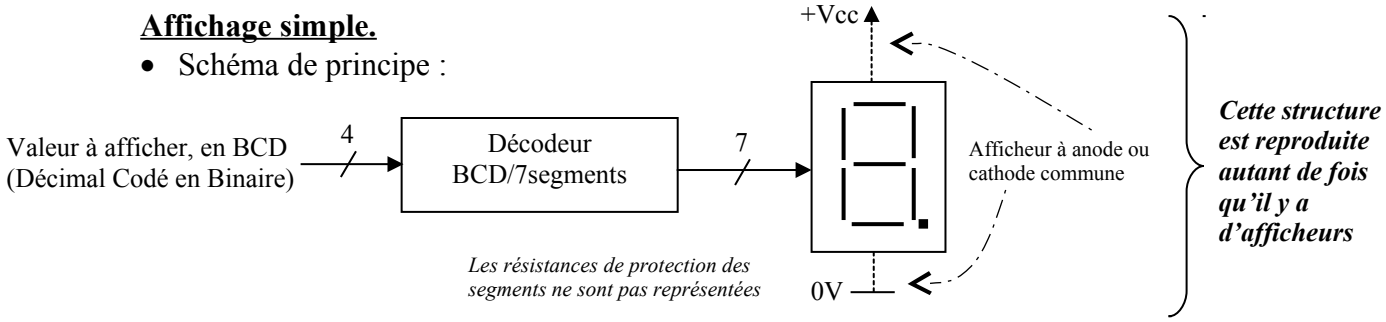


afficheur à cathode commune



Affichage simple.

- Schéma de principe :

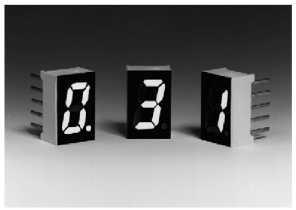


Agilent Technologies

8 mm (0.31 inch) Ultra Mini Seven Segment Displays

Technical Data

HDSP-U1xx Series
HDSP-U2xx Series
HDSP-U3xx Series
HDSP-U4xx Series
HDSP-U5xx Series



Features

- **Compact Package**
- **8 mm (0.31 inch) Character Height**
- **Choice of Colors**
  Wide Range of Colors
- **Excellent Appearance**
  Evenly Lighted Segments
  Mitered Corners on Segments
  Gray/Black Surface Gives Optimum Contrast
  ± 50° Viewing Angle
- **Design Flexibility**
  Common Anode or Common Cathode
  Right Hand Decimal Point
- **Categorized for Luminous Intensity**
  Yellow and Green also 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**

Description

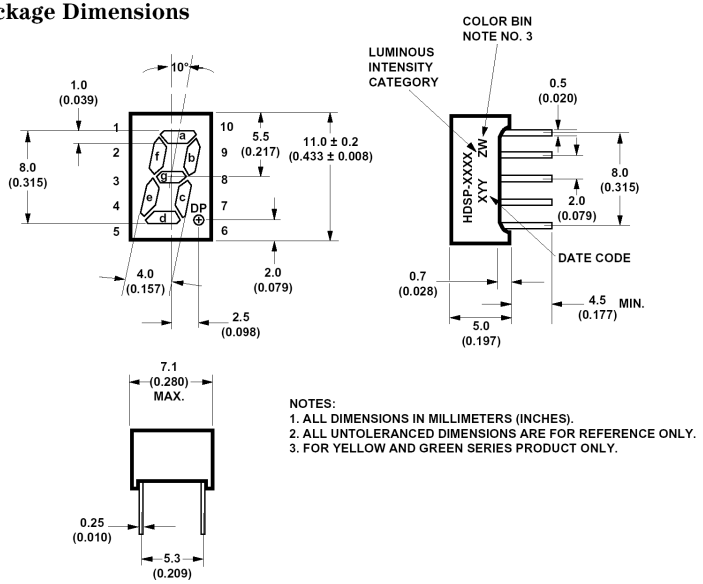
The 8 mm (0.31 inch) LED seven segment displays are Agilent's most space-efficient character size. They are designed for viewing distances up to 3 metres (10 feet). The numeric devices feature a right hand decimal point. All devices are available as either common anode or common cathode.

Typical applications include appliances, temperature controllers, and digital panel meters.

Devices

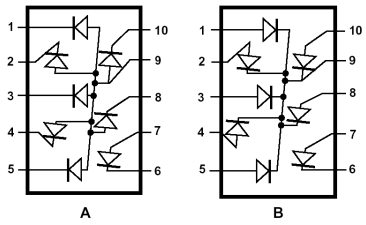
AlGaAs Red HDSP-	HER HDSP-	Orange HDSP-	Yellow HDSP-	Green HDSP-	Description	Circuit Diagram
U101	U201	U401	U301	U501	Common Anode, Right Hand Decimal, Gray Surface	A
U103	U203	U403	U303	U503	Common Cathode, Right Hand Decimal, Gray Surface	B
U111	U211	U411	U311	U511	Common Anode, Right Hand Decimal, Black Surface	A
U113	U213	U413	U313	U513	Common Cathode, Right Hand Decimal, Black Surface	B

Package Dimensions



NOTES:
1. ALL DIMENSIONS IN MILLIMETERS (INCHES).
2. ALL UNTOLERANCED DIMENSIONS ARE FOR REFERENCE ONLY.
3. FOR YELLOW AND GREEN SERIES PRODUCT ONLY.

Internal Circuit Diagram



PIN	FUNCTION A	FUNCTION B
1	CATHODE a	ANODE a
2	CATHODE f	ANODE f
3	CATHODE g	ANODE g
4	CATHODE e	ANODE e
5	CATHODE d	ANODE d
6	CATHODE DP	CATHODE DP
7	ANODE DP	ANODE DP
8	CATHODE c	ANODE c
9	ANODE	CATHODE
10	CATHODE b	ANODE b

HDSP-UXXX CIRCUIT

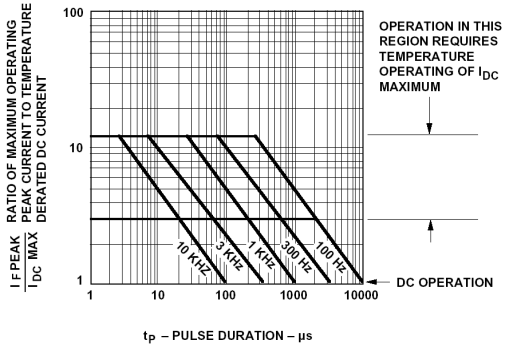


Figure 7. Maximum Tolerable Peak Current vs. Pulse Duration – Green.