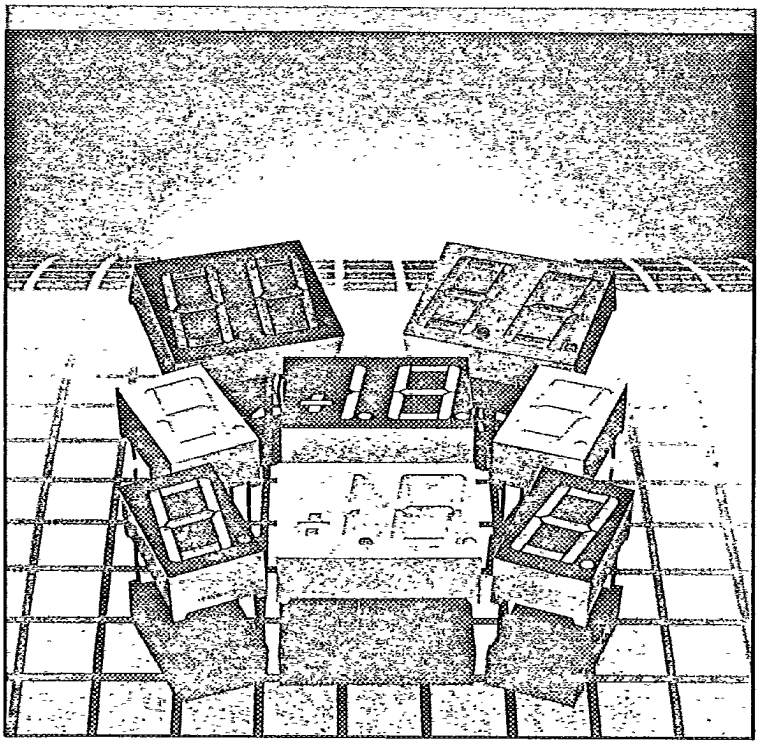
LA/LB 6000 Series of .56" LED Displays

Description:

The LA 6000 and LB 6000 Series of .56" displays offer industry-standard digits in a full range of colors and packages. Colors include red, high-efficiency red, orange, yellow and high-efficiency green. Packages feature single digit, dual digit and 1½ digit, all with right-hand decimal points. Curved corners on the digits facilitate easy and pleasant viewing.



Features:

- Industry-standard pinout and package size.
- Large, easy-to-read digits.
- Choice of five colors: Red, High-Efficiency Red, Orange, Yellow and High-Efficiency Green.
- Choice of single, dual or 1½ digit versions.
- Choice of Common Anode or Common Cathode.
- Rugged filled reflector type construction.
- I.C. compatible.
- Coded for luminous intensity matching.

ABSOLUTE MAXIMUM RATINGS (T_A = 25°C) All part numbers

Parameter	Symbol	Rating	Unit
Power Dissipation (per segment)	P_D	60	mW
Continuous Forward Current (per segment)	I_F	25	mA
Reverse Voltage (per segment)	V_R	5	V
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +85	°C
Lead Soldering Temperature	-	260°C (Max. 3 sec; Min .063"/1.6 mm from body)	-

ELECTRO-OPTICAL CHARACTERISTICS

Parameter	Symbol	Conditions	Red LA/LB 6700			Hi-Eff. Red LA/LB6900			Orange LA/LB 6600			Yellow LA/LB 6800			Hi-Eff. Green LA/LB 6400			Unit
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
Forward Voltage	V_F	I_F = 10 mA	-	2.0	2.8	-	2.0	2.8	-	2.0	2.8	-	2.1	2.8	-	2.1	2.8	V
Luminous Intensity (per digit)	I_V	I_F = 10 mA	1.6	-	-	1.6	-	-	1.5	-	-	1.0	-	-	2.2	-	-	mcd
Reverse Current	I_R	V_R = 5V	-	-	100	-	-	100	-	-	100	-	-	100	-	-	100	μA
Peak Wavelength	λp	I_F = 10 mA	-	650	-	-	635	-	-	610	-	-	585	-	-	563	-	nm
Spectral Line Halfwidth	$\Delta\lambda$	I_F = 10 mA	-	40	-	-	40	-	-	40	-	-	40	-	-	40	-	nm

PART DESCRIPTION

Part Number	Color	Description	Pinout	Drawing
LB-6410	High-Efficiency Green	Dual Digit; Common Anode	A	Fig. 1
LB-6430	High-Efficiency Green	1½ Digit; Common Anode	B	Fig. 2
LB-6440	High-Efficiency Green	Dual Digit; Common Cathode	C	Fig. 1
LB-6450	High-Efficiency Green	1½ Digit; Common Cathode	D	Fig. 2
LA-6460	High-Efficiency Green	Single Digit; Common Anode	E	Fig. 3
LA-6480	High-Efficiency Green	Single Digit; Common Cathode	F	Fig. 3
LB-6610	Orange	Dual Digit; Common Anode	A	Fig. 1
LB-6630	Orange	1½ Digit; Common Anode	B	Fig. 2
LB-6640	Orange	Dual Digit; Common Cathode	C	Fig. 1
LB-6650	Orange	1½ Digit; Common Cathode	D	Fig. 2
LA-6660	Orange	Single Digit; Common Anode	E	Fig. 3
LA-6680	Orange	Single Digit; Common Cathode	F	Fig. 3
LB-6710	Red	Dual Digit; Common Anode	A	Fig.1
LB-6730	Red	1½ Digit; Common Anode	B	Fig. 2
LB-6740	Red	Dual Digit; Common Cathode	C	Fig. 1
LB-6750	Red	1½ Digit; Common Cathode	D	Fig. 2
LA-6760	Red	Single Digit; Common Anode	E	Fig. 3
LA-6780	Red	Single Digit; Common Cathode	F	Fig. 3
LB-6810	Yellow	Dual Digit; Common Anode	A	Fig. 1
LB-6830	Yellow	1½ Digit; Common Anode	B	Fig. 2
LB-6840	Yellow	Dual Digit; Common Cathode	C	Fig. 1
LB-6850	Yellow	1½ Digit; Common Cathode	D	Fig. 2
LA-6860	Yellow	Single Digit; Common Anode	E	Fig. 3
LA-6880	Yellow	Single Digit; Common Cathode	F	Fig. 3
LB-6910	High-Efficiency Red	Dual Digit; Common Anode	A	Fig. 1
LB-6930	High-Efficiency Red	1½ Digit; Common Anode	B	Fig. 2
LB-6940	High-Efficiency Red	Dual Digit; Common Cathode	C	Fig. 1
LB-6950	High-Efficiency Red	1½ Digit; Common Cathode	D	Fig. 2
LB-6960	High-Efficiency Red	Single Digit; Common Anode	E	Fig. 3
LB-6980	High-Efficiency Red	Single Digit; Common Cathode	F	Fig. 3

ROHM

Figure 1

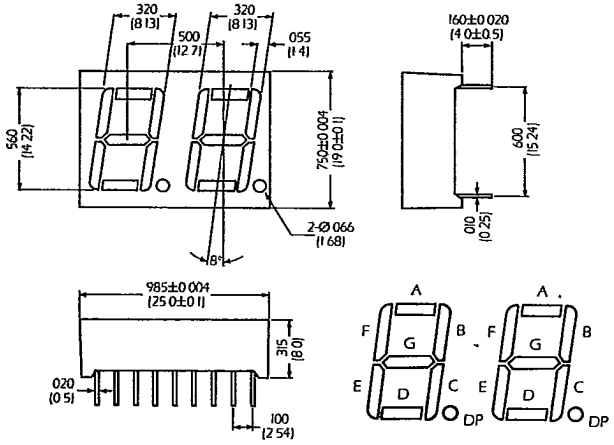


Figure 2

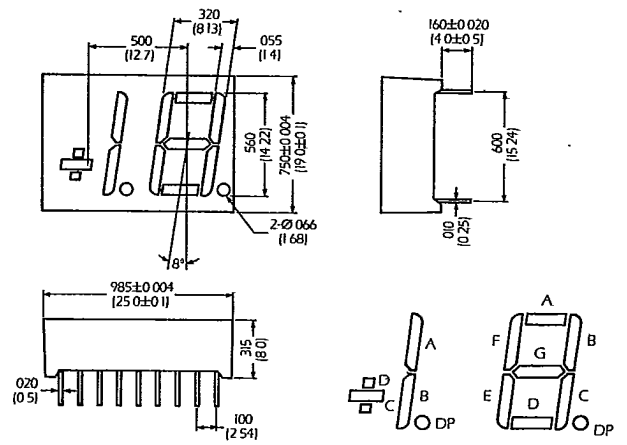
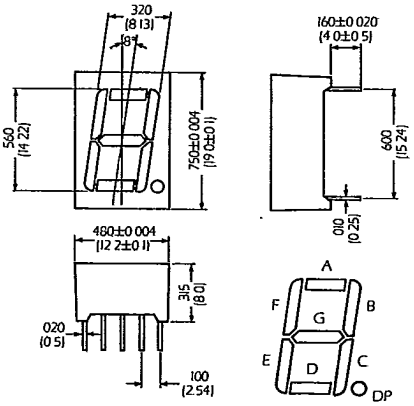


Figure 3



Dimensions: Inches (mm)

PIN CONNECTIONS

Electrical Connections

Pin No.	A LB-6X10	B LB-6X30	C LB-6X40	D LB-6X50	E LA-6X60	F LA-6X80
1	Cathode E (No. 1)	Cathode C (No. 1)	Anode E (No. 1)	Anode C (No. 1)	Cathode E	Anode E
2	Cathode D (No. 1)	Cathode D (No. 1)	Anode D (No. 1)	Anode D (No. 1)	Cathode D	Anode D
3	Cathode C (No. 1)	Cathode B (No. 1)	Anode C (No. 1)	Anode B (No. 1)	Common anode	Common cathode
4	Cathode DP (No. 1)	Cathode DP (No. 1)	Anode DP (No. 1)	Anode DP (No. 1)	Cathode C	Anode C
5	Cathode E (No. 2)	Cathode E (No. 2)	Anode E (No. 2)	Anode E (No. 2)	Cathode DP	Anode DP
6	Cathode D(No. 2)	Cathode D (No. 2)	Anode D (No. 2)	Anode D (No. 2)	Cathode B	Anode B
7	Cathode G (No. 2)	Cathode G (No. 2)	Anode G (No. 2)	Anode G (No. 2)	Cathode A	Anode A
8	Cathode C (No. 2)	Cathode C (No. 2)	Anode C (No. 2)	Anode C (No. 2)	Common anode	Common cathode
9	Cathode DP (No. 2)	Cathode DP (No. 2)	Anode DP (No. 2)	Anode DP (No. 2)	Cathode F	Anode F
10	Cathode B (No. 2)	Cathode B (No. 2)	Anode B (No. 2)	Anode B (No. 2)	Cathode G	Anode G
11	Cathode A (No. 2)	Cathode A (No. 2)	Anode A (No. 2)	Anode A (No. 2)	-	-
12	Cathode F (No. 2)	Cathode F (No. 2)	Anode F (No. 2)	Anode F (No. 2)	-	-
13	Digit No. 2 anode	Digit No.2 anode	Digit No. 2 cathode	Digit No. 2 cathode	-	-
14	Digit No. 1 anode	Digit No. 1 anode	Digit No. 1 cathode	Digit No.1 cathode	-	-
15	Cathode B (No. 1)	Cathode A (No. 1)	Anode B (No. 1)	Anode A (No. 1)	-	-
16	Cathode A (No. 1)	No connection	Anode A (No. 1)	No connection	-	-
17	Cathode G (No. 1)	No connection	Anode G (No. 1)	No connection	-	-
18	Cathode F (No. 1)	No connection	Anode F (No. 1)	No connection	-	-