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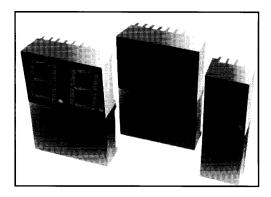








RED MAN6700 SERIES



DESCRIPTION

The MAN6700 Series is a family of large digits which includes double and single digits. The series features the sculptured font which minimizes "gappiness" at the segment intersections. Available models include two-digit, one and one-half digits with polarity sign, and single digits. All models have right hand decimal points and are available in common anode or common cathode configuration. Units are constructed with Black face and Red segment color.

FEATURES

- High performance GaAsP
- Large, easy to read, digits
- Common anode or common cathode models
- Also available in Orange (MAN6600 Series)
- Fast switching excellent for multiplexing
- Low power consumption
- Bold solid segments that are highly legible
- Solid state reliability long operation life
- Rugged plastic construction
- Directly compatible with integrated circuits
- High brightness with high contrast
- Categorized for Luminous Intensity (See Note 7)
- Wide viewing angle...150°
- Standard double-dip lead configuration
- Low forward voltage

APPLICATIONS

For industrial and consumer applications such as:

- Two-digit package simplifies alignment and assembly
- Digital readout displays
- Instrument panels
- Point of sale equipment
- Digital clocks
- TV and radios

MODEL NUMBERS					
PART NUMBER COLOR		DESCRIPTION	PACKAGE DRAWING	PIN OUT SPECIFICATION	
MAN6710	Red	2 Digit; Common Anode; Rt. Hand Decimal	A	Α	
MAN6730	Red	1½ Digit; Common Anode; Overflow ±1.8; Rt. Hand Decimal	В	В	
MAN6740	Red	2 Digit; Common Cathode; Rt. Hand Decimal	Α	С	
MAN6750	Red	1½ Digit; Common Cathode; Overflow ±1.8; Rt. Hand Decimal	В	D	
MAN6760	Red	Single Digit; Common Anode; Rt. Hand Decimal	С	Е	
MAN6780	Red	Single Digit; Common Cathode; Rt. Hand Decimal	С	F	

RECOMMENDED OPTICAL FILTERS

For optimum ON and OFF contrast, one of the following filters or equivalents should be used over the display:

DEVICE TYPE

FILTER

MAN6700 Series

Panelgraphic Red 60 Homalite 100-1605



	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
Luminous Intensity, digit average (See Note 1)	125	420		μcd	I _F =10 mA
Peak emission wavelength		650		nm	
Spectral line half width		20		nm	
Forward voltage Segment Decimal point			2.0 2.0	V	I _F =20 mA I _F =20 mA
Dynamic resistance Segment Decimal point		2 2		Ω	I _F =20 mA I _F =20 mA
Capacitance Segment Decimal point		35 35		pF pF	V=0 V=0
Reverse current Segment Decimal point Segment C or D of "+" (6730/6750)			100 100 100	μΑ μΑ μΑ	V _R =5.0 V V _R =5.0 V V _R =5.0 V

ABSOLUTE MAXIMUM RATINGS					
	MAN6710 MAN6740	MAN6730 MAN6750	MAN6760 MAN6780		
Power dissipation at 25°C ambient	960 mW	840 mW	480 mW		
Derate linearly from 25°C	-13.7 mW/°C	−12.0 mW/°C	−6.9 mW/°C		
Storage and operating temperature	-40°C to +85°C	-40°C to +85°C	−40°C to +85°C		
Total	480 mA	420 mA	240 mA		
Per segment	30 mA	30 mA	30 mA		
Decimal point	30 mA	30 mA	30 mA		
Per segment	6.0 V	6.0 V	6.0 V		
Decimal pointSoldering time at 260°C	6.0 V	6.0 V	6.0 V		
(See Notes 3 and 4)	5 sec.	5 sec.	5 sec.		

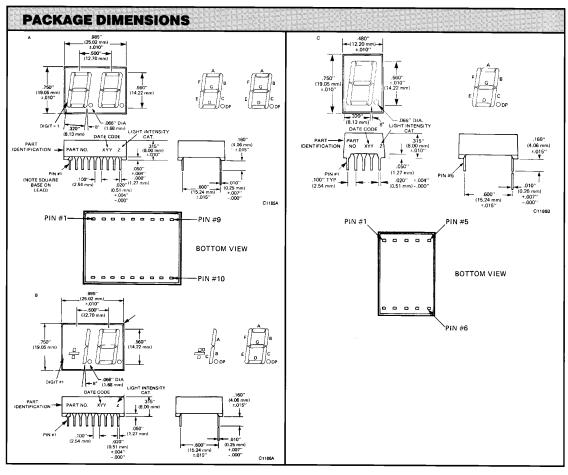
TYPICAL THERMAL CHARACTERISTICS	
Thermal resistance junction to free air Φ_{JA}	160°C/W
wavelength temperature coefficient (case temperature)	മ വീ/ം∩
Forward voltage temperature coefficient	2.0 mV/°C

NOTES

- The digit average Luminous Intensity is obtained by summing the Luminous Intensity of each segment and dividing by the total number of segments. Intensity will not vary more than ±33.3% between all segments within a digit.
 The curve in Figure 3 is normalized to the brightness at 25°C to indicate the relative efficiency over the operating temperature
- 3. Leads of the device immersed to 1/16 inch from the body. Maximum device surface temperature is 140°C.
 4. For flux removal, Freon TF, Freon TE, Isoproponal or water may be used up to their boiling points.
 5. Pins 3 and 8 on MAN6760 and MAN6780 ar redundant anodes or cathodes.

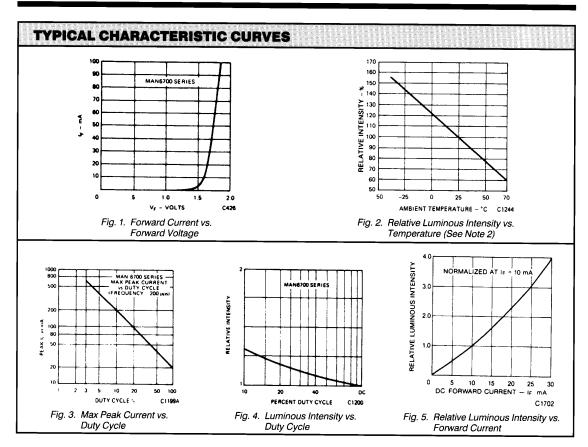
- 6. All displays are categorized for Luminous Intensity. The Intensity category is marked on each part as a suffix letter to the part

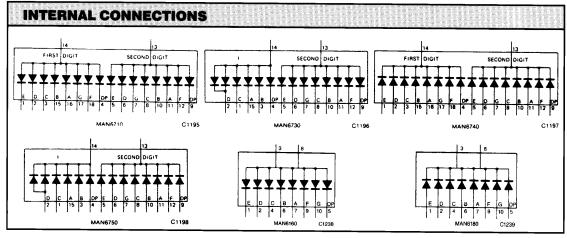




ELE	ELECTRICAL CONNECTIONS					
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Pin No.	A MAN6710	B MAN6730	C MAN6740	D MAN6750	E MAN6760	F MAN6780
1	Cathode E 1	Cathode C 1	Anode E 1	Anode C 1	Cathode E	Anode E
2	Cathode D 1	Cathode D 1	Anode D 1	Anode D 1	Cathode D	Anode D
3	Cathode C 1	Cathode B 1	Anode C 1	Anode B 1	Com. Anode	Com. Cathode
4	Cathode D.P. 1	Cathode D.P. 1	Anode D.P. 1	Anode D.P. 1	Cathode C	Anode C
5	Cathode E 2	Cathode E 2	Anode E 2	Anode E 2	Cathode D.P.	Anode D.P.
6	Cathode D 2	Cathode D 2	Anode D 2	Anode D 2	Cathode B	Anode B
7	Cathode G 2	Cathode G 2	Anode G 2	Anode G 2	Cathode A	Anode A
8	Cathode C 2	Cathode C 2	Anode C 2	Anode C 2	Com. Anode	Com. Cathode
9	Cathode D.P. 2	Cathode D.P. 2	Anode D.P. 2	Anode D.P. 2	Cathode F	Anode F
10	Cathode B 2	Cathode B 2	Anode B 2	Anode B 2	Cathode G	Anode G
11	Cathode A 2	Cathode A 2	Anode A 2	Anode A 2		
12	Cathode F 2	Cathode F 2	Anode F 2	Anode F 2		
13	Anode Digit 2	Anode Digit 2	Cathode Digit 2	Cathode Digit 2		
14	Anode Digit 1	Anode Digit 1	Cathode Digit 1	Cathode Digit 1		
15	Cathode B 1	Cathode A 1	Anode B 1	Anode A 1		
16	Cathode A 1	No Connection	Anode A 1	No Connection		
17	Cathode G 1	No Connection	Anode G 1	No Connection		
18	Cathode F 1	No Connection	Anode F 1	No Connection		









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