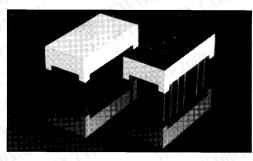
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0.300-INCH SEVEN SEGMENT DISPLAYS

HIGH EFFICIENCY GREEN MAN3400A RED MAN70A ORANGE MAN3600A YELLOW MAN3800A



DESCRIPTION

The MAN3400A, MAN3600A, MAN70A and MAN3800A Series provides a choice of color of LED displays. Standard units are available in Red, Green, Orange and Yellow. They can be mounted in arrays with 0.400-inch (10.16 mm) center-to-center spacing. Yellow and High Efficiency Green displays are constructed with Grey face and neutral segment color. Red displays have Black faces and Red segment color. Others have face and segment color corresponding to the emitted light.

FEATURES

- Common anode or common cathode models
- Red, Yellow, Green and Orange
- Fast switching excellent for multiplexing
- Low power consumption
- Bold solid segments that are highly legible
- Solid state reliability long operation life
- Impact resistant plastic construction
- Directly compatible with integrated circuits
- High brightness with high contrast
- Categorized for Luminous Intensity (See Note 6)
- Standard 14 pin dual-in-line package configuration
- Wide angle viewing...150°

APPLICATIONS

- Digital readout displays
- Instrument panels
- Point of sale equipment
- Calculators
- Digital clocks

MAN3410A	High Efficiency Green	DESCRIPTION Common Anode; Right Hand Decimal
MAN3420A	High Efficiency Green	Common Anode; Left Hand Decimal
MAN3440A	High Efficiency Green	Common Cathode; Right Hand Decima
MAN3610A	Orange	Common Anode; Right Hand Decimal
MAN3620A	Orange	Common Anode; Left Hand Decimal
MAN3630A	Orange	Common Anode; Overflow ±1
MAN3640A	Orange	Common Cathode; Right Hand Decima
MAN71A	Red	Common Anode; Right Hand Decimal
MAN72A	Red	Common Anode; Left Hand Decimal
MAN73A	Red	Common Anode; Overflow ±1
MAN74A	Red	Common Cathode; Right Hand Decima
MAN3810A	Yellow	Common Anode; Right Hand Decimal
MAN3820A	Yellow	Common Anode; Left Hand Decimal
MAN3840A	Yellow	Common Cathode; Right Hand Decimal

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MAN3410A, 3420A, 3440A	MIN	TYP.	MAX.	UNITS	TEST CONDITIONS
Luminous Intensity, digit average (See Notes 1 and 3)	750 900	3200 4000		μcd μcd	$I_F = 10 \text{ mA}$ $I_F = 60 \text{ mA peak}, 1:6 \text{ DF}$
Peak emission wavelength	N. M. M.	562		nm	MY.CO. TY
Spectral line half width	W.100 *	30	-1	nm	To CONT.
Forward voltage Segment Decimal point	WW.100X	2.2 2.2	3.0 3.0	v	l _r =20 mA l _r =20 mA
Dynamic resistance Segment Decimal point	WWW.10	12 12	TW	Ω Ω	l _⊧ =20 mA l _⊧ =20 mA
Capacitance Segment Decimal point	WWW.W	40 40	WIN WIN	pF pF	V=0 V=0
Reverse current Segment Decimal point	WWW.	100Y.CC	100 100	μΑ μΑ	V _R =5.0 V V _R =5.0 V
MAN3610A, 3620A, 3630A, 3640A Luminous Intensity, digit average (See Note 1 and 3)	510	1800	COM.T	μcd	I _F =10 mA
Peak emission wavelength	WV	630		nm	WW 1007
Spectral line half width		40	a COM.	nm	WWW.
Forward voltage Segment Decimal point		WW.100	2.5 2.5	V V	l _⊧ =20 mA l _⊧ =20 mA
Dynamic resistance Segment Decimal point	W ·	26 26	00Y.CO	Ω Ω	l⊧=20 mA l⊧=20 mA
Capacitance Segment Decimal point	TW	35 35	100Y.C	pF pF	V=0 V=0
Reverse current Segment Decimal point	M.T.W	WW WW	100 100	μΑ μΑ	V _n =5.0 V V _n =5.0 V

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TW WI 100	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
MAN71A, 72A, 73A, 74A Luminous Intensity, digit average (See Note 1 and 3)	125	350	WW	μcd	l _F =10 mA
Peak emission wavelength		660		nm	CON.
Spectral line half width	001.0	20	V	nm	M.I.
Forward voltage Segment Decimal point	.100Y.C	COM.TW	2.0 2.0	VV	I _F =20 mA I _F =20 mA
Dynamic resistance Segment Decimal point	N.100	2 2	W	$\Omega \Omega$	I _{pk} =100 mA I _{pk} =100 mA
Capacitance Segment Decimal point	WW.100	35 35	80 80	pF pF	V=0 V=0
Reverse current Segment Decimal point	WW.N	100Y.COM	100 100	μΑ μΑ	V _R =5.0 V V _R =5.0 V
MAN3810A, 3820A, 3840A Luminous Intensity, digit average (See Note 1 and 3)	450	1700	OM.TW	μcd	l _⊧ =10 mA
Peak emission wavelength	WW	585	COM IN	nm	WWW. OO'
Spectral line half width		40	cOM.	nm	WW.Iou
Forward voltage Segment Decimal point	W	NW.100X	3.0 3.0	v v	l _⊧ =20 mA l _⊧ =20 mA
Dynamic resistance Segment Decimal point	Ŵ	26 26	N.COM	$\Omega \Omega$	I _F =20 mA I _F =20 mA
Capacitance Segment Decimal point	[35 35	001.CO	pF pF	V=0 V=0
Reverse current Segment Decimal point	N	WWW	100 100	μΑ μΑ	V _B =5.0 V V _B =5.0 V

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DEVICE TYPE	FILTER	DEVICE TYPE	FILTER
MAN3610A MAN3620A MAN3630A MAN3640A	Panelgraphic Scarlet 65 Homalite 100-1670	MAN71A MAN72A MAN73A MAN74A	Panelgraphic Red 60 Homalite 100-1605
MAN3410A MAN3420A MAN3440A	Panelgraphic Green 48 Homalite 100-1440 Green	MAN3810A MAN3820A MAN3840A	Panelgraphic Yellow 25 or Amber 2 Homalite 100-1720 or 100-1726 Panelgraphic Grey 10 Homalite 100-1266 Grey

ABSOLUTE MAXIMUM RATINGS

CONTRACTION MANAGER	HIGH EFF. GREEN MAN3410A	MAN71A	EDC ON THE
00 1. CONT. 1	MAN3420A MAN3440A	MAN72A MAN74A	MAN73A
Power dissipation at 25°C ambient Derate linearly from 50°C. Storage and operating temperature Continuous forward current	600 mW − 12 mW/°C −40°C to +85°C	480 mW −6.9 mW/°C −40°C to +85°C	300 mW −4.29 mW/°C −40°C to +85°C
Total	240 mA 30 mA 30 mA	240 mA 30 mA 30 mA	150 mA 30 mA 30 mA
Per segment. Decimal point. Soldering time at 260°C (See Notes 4 and 5).	6.0 V 6.0 V 5 sec.	6.0 V 6.0 V 5 sec.	6.0 V 6.0 V 5 sec.
NN.10° SCON.	YELLOW	ORA	NGE

W.1002. COM.TW WWW.10	MAN3810A MAN3820A MAN3840A	MAN3610A MAN3620A MAN3640A	MAN3630A
Power dissipation at 25°C ambient Derate linearly from 50°C	600 mW 10.3 mW/°C	600 mW -8.6 mW/°C	375 mW −5.36 mW/°C
Storage and operating temperature Continuous forward current	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Total Per segment	200 mA 25 mA	240 mA 30 mA	150 mA
Decimal point	25 mA	30 mA	30 mA 30 mA
Per segment	6.0 V	6.0 V	6.0 V
Decimal point Soldering time at 260°C (See Notes 4 and 5)	6.0 V 5 sec.	6.0 V 5 sec.	6.0 V 5 sec.

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 Figures 3, 6, 9, and 12 is normalized to the brightness at 25°C to indicate the relative Luminous Intensity over the operating

temperature range.

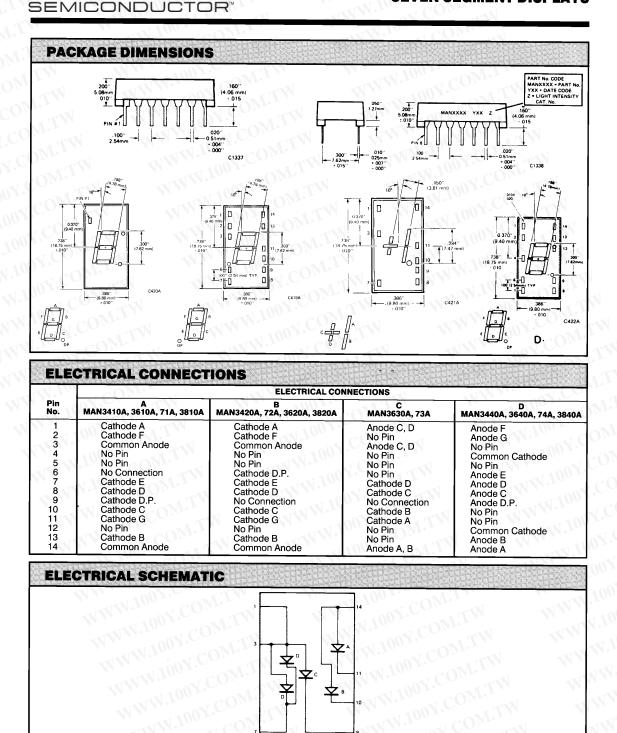
The decimal point is designed to have the same surface brightness as the segments, therefore, the Luminous Intensity of the decimal point is .3 times the Luminous Intensity of the segments, since the area of the decimal point is .3 times the area of the average segment.
 Leads of the device immersed to 1/16 inch from the body. Maximum device surface temprature is 140°C.

Eads of the device minimised to information of body. Maximum device surface templations in the body.
 For flux removal, Freon TF, Freon TE, Isoproponal or water may be used up to their boiling points.
 All displays are categorized for Luminous Intensity. The Intensity category is marked on each part as a suffix letter to the part number.

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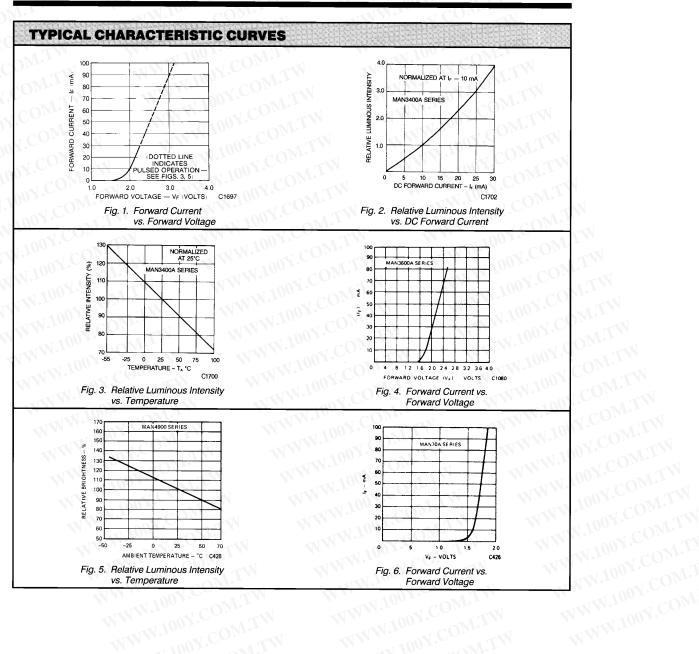
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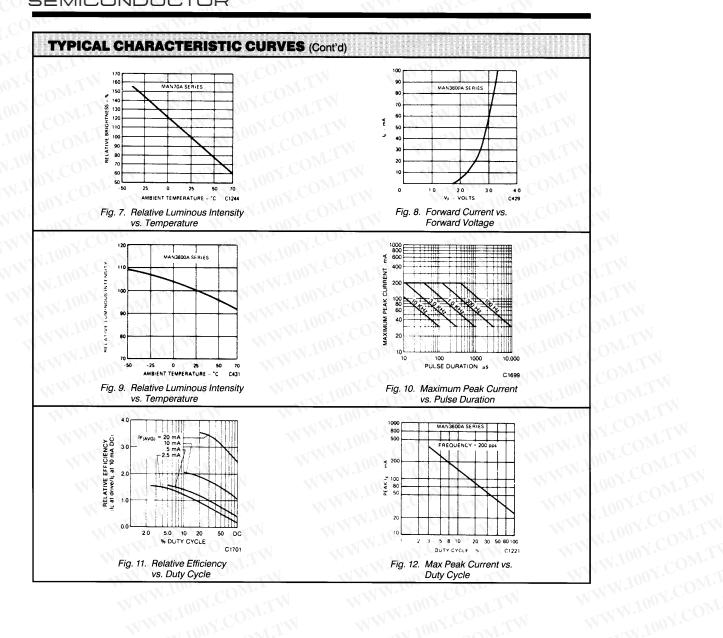


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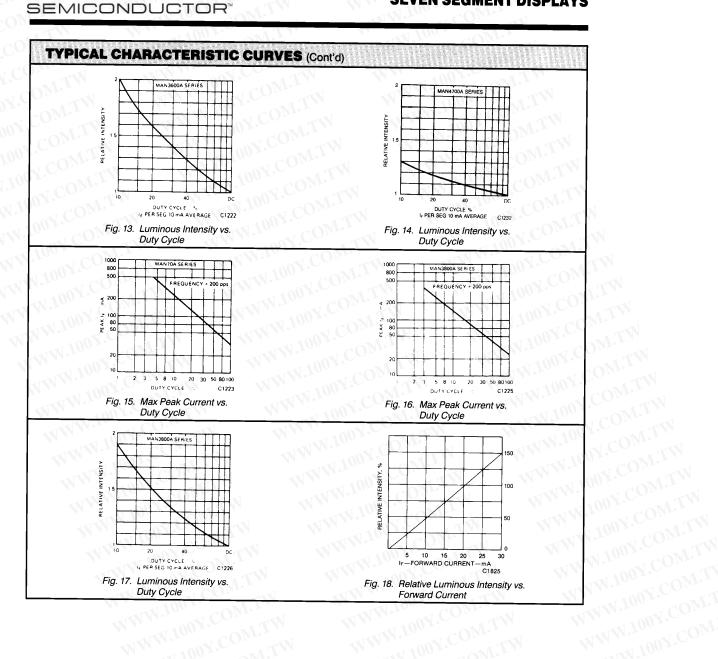
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