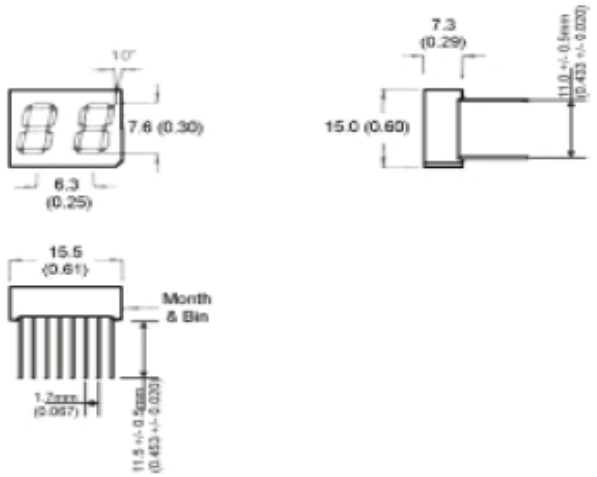
7.6mm (0.3 inch) Two Digit NUMERIC STICK DISPLAY

High Efficiency Red MAN59234

PACKAGE DIMENSIONS



NOTES:

- Dimensions are in mm (inches)
- Tolerances are +/- 0.25 (0.010) unless otherwise stated.

FEATURES

- Bright Bold Segments
- Common Anode/Cathode
- Low Power Consumption
- Low Current Capability
- Neutral Segments
- Grey Face
- Epoxy Encapsulated PCB
- High Performance
- High Reliability

APPLICATIONS

- Appliances
- Automotive
- Instrumentation
- Process Control

MODELS AVAILABLE

Part Number	Colour	Description
MAN59234	High Efficiency Red	Two Digit, No Decimal Point, Common Anode

(For other colour options, contact your local area Sales Manager)

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ABSOLUTE MAXIMUM RATINGS[1] (T_A = 25°C, unless otherwise specified)		
Part Number Parameter	MAN59234	Units
Continuous Forward Current (each segment)	25	mA
Peak Forward Current (F = 10KHz, D/F = 1/10)	100	mA
Power Dissipation (P_D)	90	mW
***Derate Linearly from 25°C**	0.33	mW
Reverse Voltage per Die		5 Volts
Operating and Storage Temperature Range		-40°C to +85°C
Lead soldering time (1/16 inch from standoffs)		5 seconds @ 230°C

ELECTRO-OPTICAL CHARACTERISTICS[1] (T_A = 25°C, unless otherwise specified)			
Part Number Parameter	MAN59234	Units	Test Condition
Luminous intensity[2] (I_V)			
Minimum (Standard Current)	500	ucd	I_F = 10mA
Typical (Standard Current)	1100	ucd	I_F = 10mA
Minimum (Low Current)	Not Available		
Typical (Low Current)	Not Available		
Forward Voltage (V_F)			
Typical (Standard Current)	2.10	Volts	I_F = 20mA
Maximum (Standard Current)	2.80	Volts	I_F = 20mA
Typical (Low Current)	Not Available		
Maximum (Low Current)	Not Available		
Peak Wavelength	635	nm	I_F = 20mA
Dominant Wavelength	Not Available		
Spectral Line 1/2 Width	30	nm	I_F = 10mA
Reverse B[3].Voltage (V_R)	5	Volts	I_R = 100uA

NOTES:
(1) Data per individual LED element
(2) Luminous intensity (ucd) = average light output per segment
(3) B = breakdown

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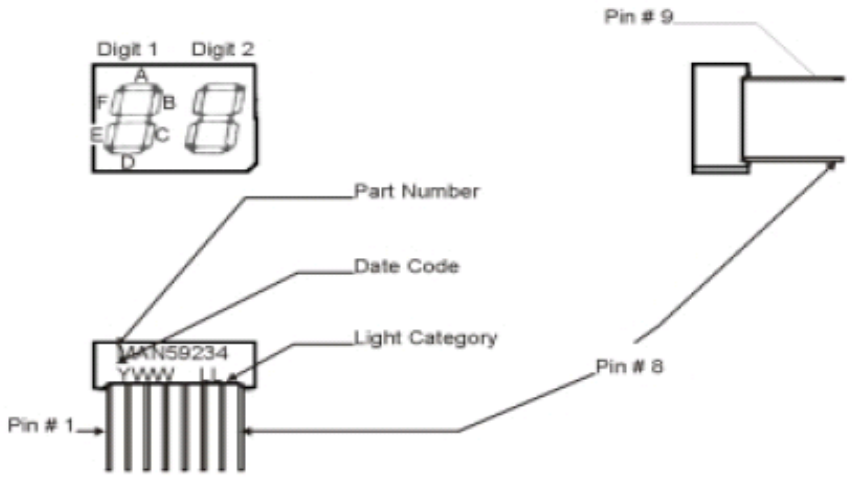
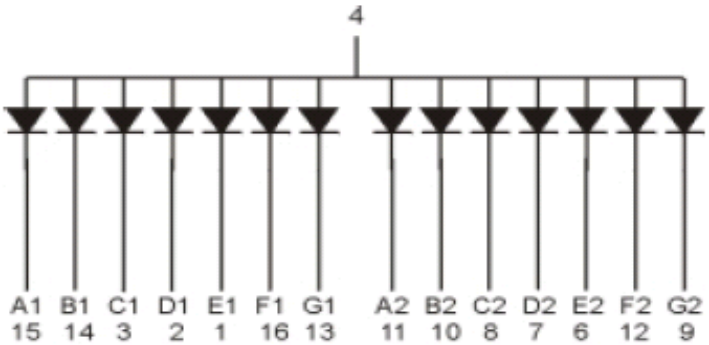
PIN ORIENTATION, SEGMENT IDENTIFICATION, AND PRODUCT MARKING



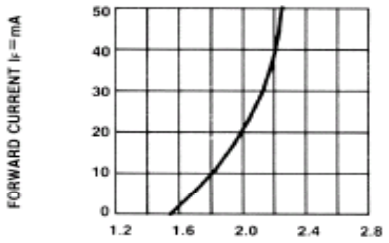
SCHEMATICS



MAN59234 Common Anode

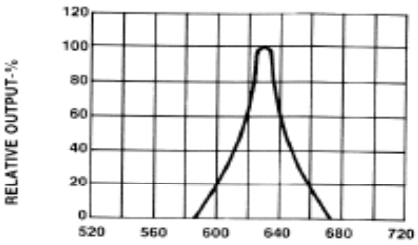
7.6mm (0.3 inch) Two Digit NUMERIC STICK DISPLAY

GRAPHICAL DATA High Efficiency Red(T_A = 25°C, unless otherwise specified)



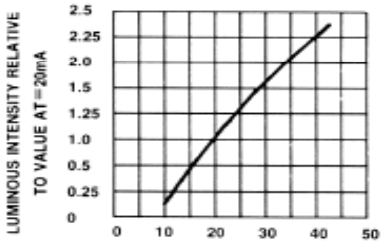
FORWARD VOLTAGE (V_F)-VOLTS

Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE.



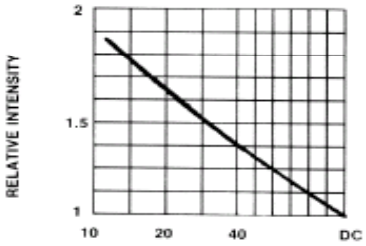
WAVELENGTH (λ)-nm

Fig.2 SPECTRAL RESPONSE



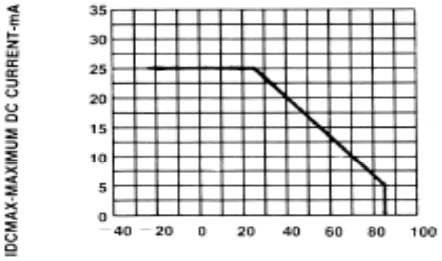
IF-FORWARD CURRENT-mA

Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



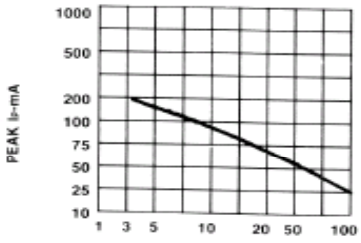
DUTY CYCLE % PER SEGMENT (AVERAGE IF=10mA)

Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE



T_A AMBIENT TEMPERATURE °C

Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE.



DUTY CYCLE %

Fig. 6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE f=1 KHz)