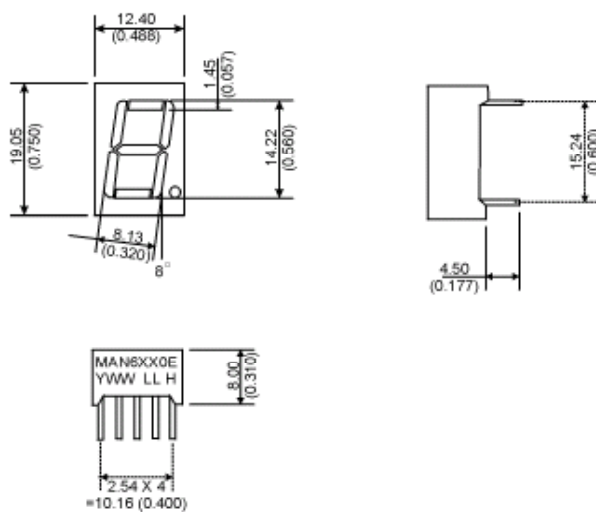


# 0.56 Inch (14.2mm) 1 Digit NUMERIC STICK DISPLAY

**AlGaAs Red (660nm) MAN6260E.B, MAN6280E.B**

Issue 002/05192000

## 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
- Black Face
- Epoxy Encapsulated PCB
- High Performance
- High Reliability

## APPLICATIONS

- Appliances
- Automotive
- Instrumentation
- Process Control

## MODELS AVAILABLE

Part Number	Colour	Description	Special
MAN6260E.B	AlGaAs 660nm	Single Digit, RHDP, Common Anode	Low Current Capability
MAN6280E.B	AlGaAs 660nm	Single Digit, RHDP, Common Cathode	Low Current Capability

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



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### ABSOLUTE MAXIMUM RATINGS<sup>(1)</sup> ( $T_A = 25^\circ\text{C}$ , unless otherwise specified)

Part Number	MAN6260E.B	
Parameter	MAN6280E .B	Units
<b>Continuous Forward Current</b> (each segment)	30	mA
<b>Peak Forward Current</b> ( $F = 10\text{KHz}$ , $D/F = 1/10$ )	200	mA
<b>Power Dissipation (<math>P_D</math>)</b>	75	mW
<b>*Derate Linearly from <math>25^\circ\text{C}</math></b>	0.42	mW
<b>Reverse Voltage per Die</b>	5 Volts	
<b>Operating and Storage Temperature Range</b>	-40°C to +85°C	
<b>Lead soldering time (1/16 inch from standoffs)</b>	5 seconds @ 230°C	

### ELECTRO-OPTICAL CHARACTERISTICS<sup>(1)</sup> ( $T_A = 25^\circ\text{C}$ , unless otherwise specified)

Part Number	MAN6260E.B		
Parameter	MAN6280E.B	Units	Test Condition
<b>Luminous intensity<sup>(2)</sup> (<math>I_V</math>)</b>			
Minimum (Standard Current)	5300	ucd	$I_F = 20\text{mA}$
Typical (Standard Current)	12000	ucd	$I_F = 20\text{mA}$
Minimum (Low Current)	300	ucd	$I_F = 2\text{mA}$
Typical (Low Current)	500	ucd	$I_F = 2\text{mA}$
<b>Forward Voltage (<math>V_F</math>)</b>			
Typical (Standard Current)	2.00	Volts	$I_F = 20\text{mA}$
Maximum (Standard Current)	2.40	Volts	$I_F = 20\text{mA}$
Typical (Low Current)	1.80	Volts	$I_F = 2\text{mA}$
Maximum (Low Current)	2.20	Volts	$I_F = 2\text{mA}$
<b>Peak Wavelength</b>	660	nm	$I_F = 10\text{mA}$
<b>Dominant Wavelength</b>	637	nm	$I_F = 10\text{mA}$
<b>Spectral Line 1/2 Width</b>	20	nm	$I_F = 10\text{mA}$
<b>Reverse B<sup>(3)</sup>.Voltage (<math>V_R</math>)</b>	5	Volts	$I_R = 100\mu\text{A}$

NOTES:

(1) Data per individual LED element

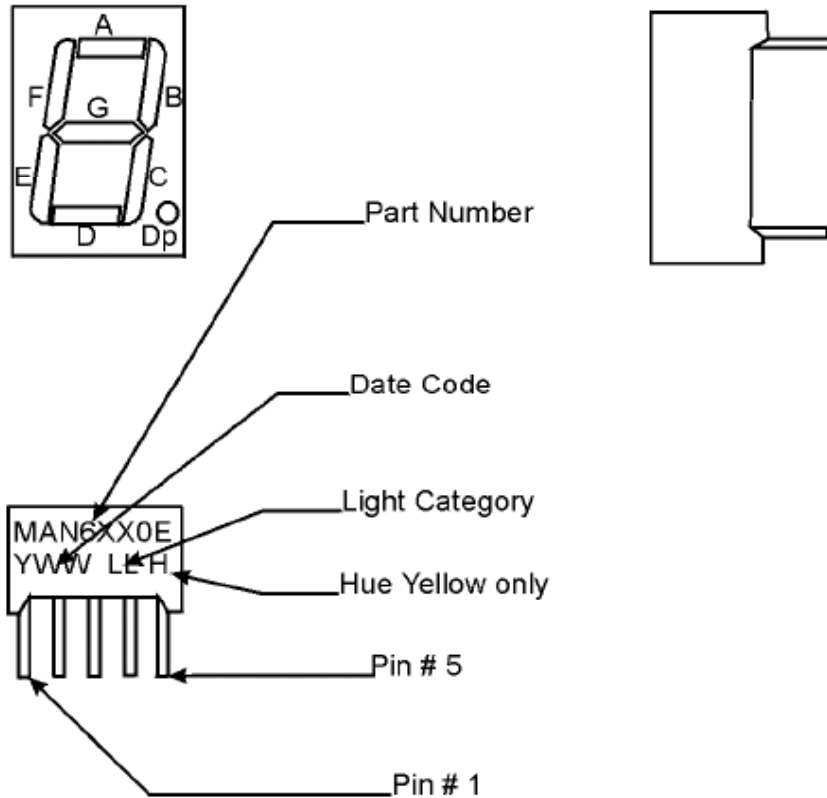
(2) Luminous intensity (ucd) = average light output per segment

(3) B = breakdown

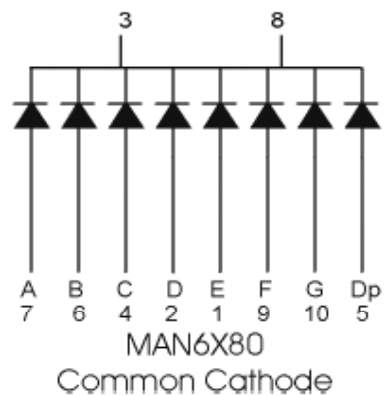
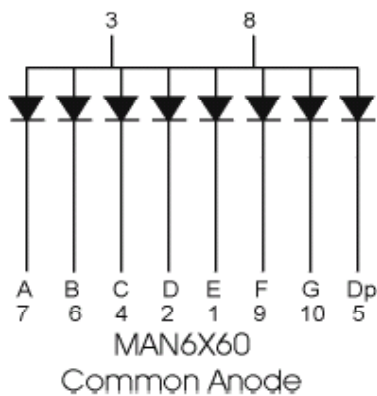
# EVERLIGHT

## 0.56 Inch (14.2mm) 1 Digit NUMERIC STICK DISPLAY

### PIN ORIENTATION, SEGMENT IDENTIFICATION, AND PRODUCT MARKING



### SCHEMATICS





# 0.56 Inch (14.2mm) 1 Digit NUMERIC STICK DISPLAY

## GRAPHICAL DATA AlGaAs 660nm ( $T_A = 25^\circ\text{C}$ , unless otherwise specified)

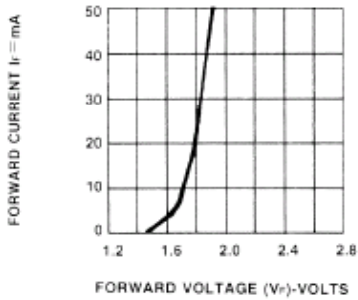


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

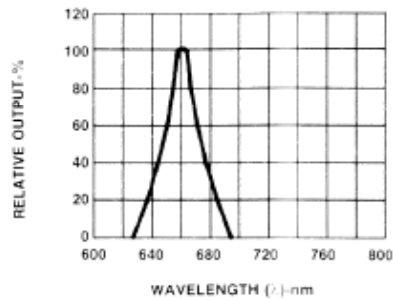


Fig.2 SPECTRAL RESPONSE

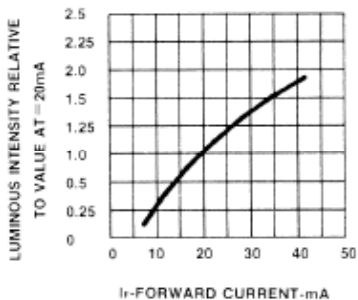


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

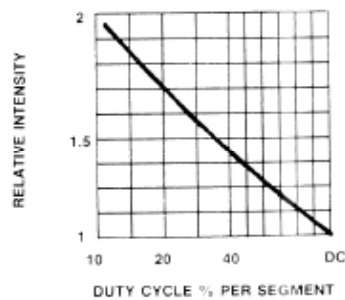


Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE (AVERAGE I<sub>f</sub> = 10mA)

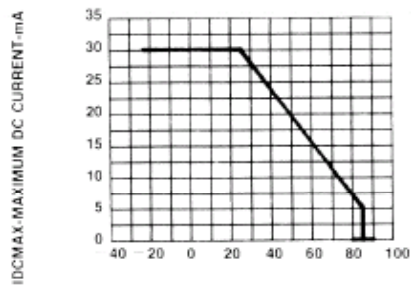


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE.

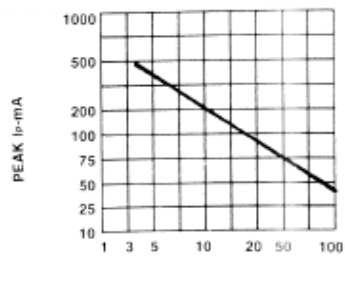


Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE f = 1 KHz)