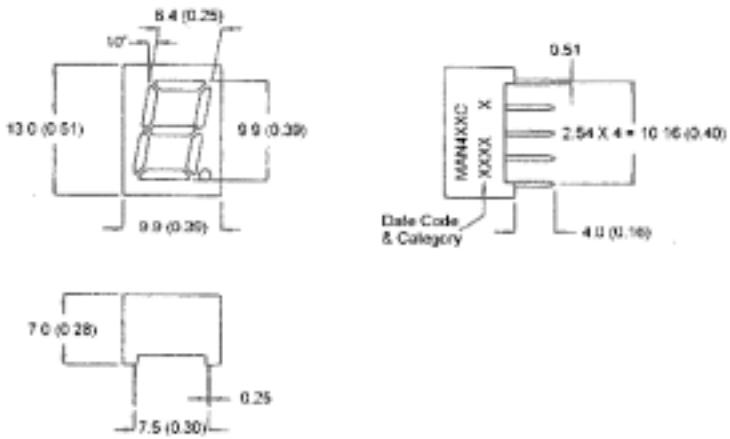
10mm (0.40 inch) One Digit

NUMERIC STICK DISPLAY

AlInGaP Red (632nm) MAN4H2C, MAN4H3C
AlInGaP Red (639nm) MAN4R2C, MAN4R3C
AlInGaP Yellow MAN4Y2C, MAN5Y3C

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	Special
MAN4H2C	AlInGaP 632nm	Single Digit, RHDP, Common Anode	Low Current Capability
MAN4H3C	AlInGaP 632nm	Single Digit, RHDP, Common Cathode	Low Current Capability
MAN4R2C	AlInGaP 639nm	Single Digit, RHDP, Common Anode	Low Current Capability
MAN4R3C	AlInGaP 639nm	Single Digit, RHDP, Common Cathode	Low Current Capability
MAN4Y2C	AlInGaP Yellow	Single Digit, RHDP, Common Anode	Low Current Capability
MAN4Y3C	AlInGaP Yellow	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[1] (T_A = 25°C, unless otherwise specified)

Part Number / Parameter	MAN4H2C MAN4H3C	MAN4R2C MAN4R3C	MAN4Y2C MAN4Y3C	Units
Continuous Forward Current (each segment)	25	25	25	mA
Peak Forward Current (F = 10KHz, D/F = 1/10)	100	100	100	mA
Power Dissipation (P_D)	60	60	60	mW
***Derate Linearly from 25°C**	0.36	0.36	0.36	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	MAN4H2C MAN4H3C	MAN4R2C MAN4R3C	MAN4Y2C MAN4Y3C	Units	Test Condition
Luminous intensity[2] (I_V)					
Minimum (Standard Current)	6000	4000	8000	ucd	I_F = 10mA
Typical (Standard Current)	7800	5800	12800	ucd	I_F = 10mA
Minimum (Low Current)	510	510	510	ucd	I_F = 2mA
Typical (Low Current)	1000	1000	1000	ucd	I_F = 2mA
Forward Voltage (V_F)					
Typical (Standard Current)	2.05	2.05	2.05	Volts	I_F = 20mA
Maximum (Standard Current)	2.40	2.40	2.40	Volts	I_F = 20mA
Typical (Low Current)	1.80	1.80	1.80	Volts	I_F = 2mA
Maximum (Low Current)	2.20	2.20	2.20	Volts	I_F = 2mA
Peak Wavelength	632	639	591	nm	I_F = 10mA
Dominant Wavelength	624	631	585	nm	I_F = 10mA
Spectral Line 1/2 Width	20	20	20	nm	I_F = 10mA
Reverse B[3].Voltage (V_R)	5	5	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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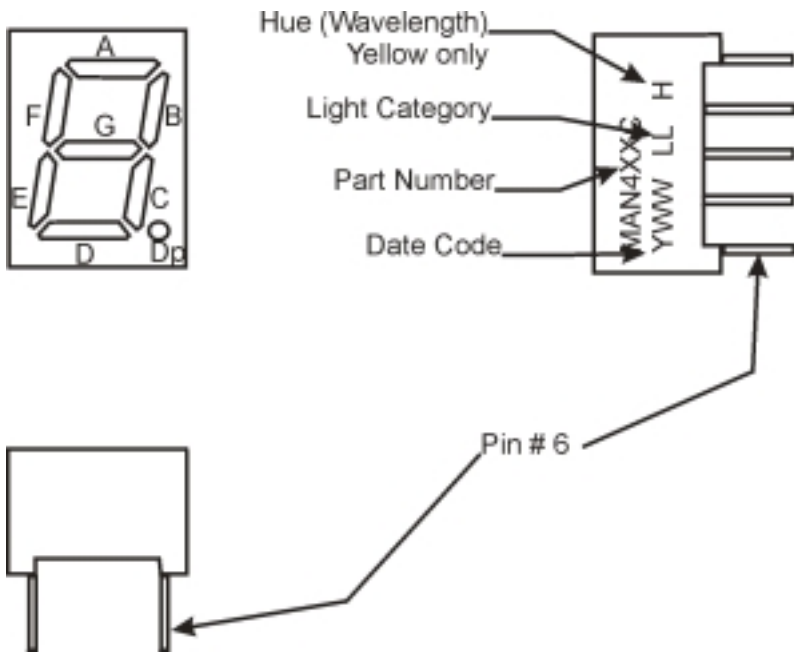
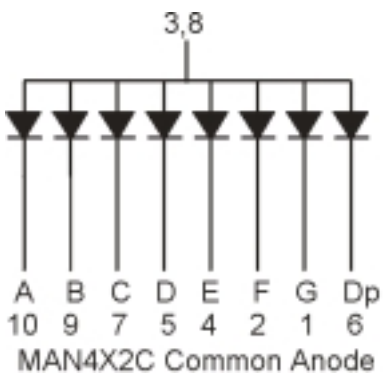
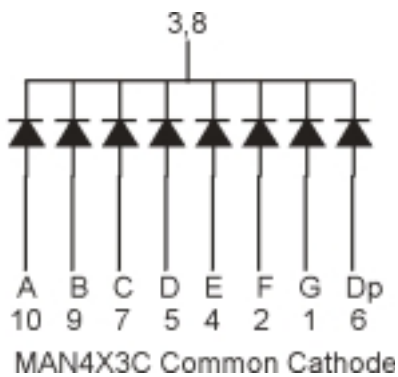
NUMERIC STICK DISPLAY

PIN ORIENTATION, SEGMENT IDENTIFICATION, AND PRODUCT MARKING



SCHEMATICS





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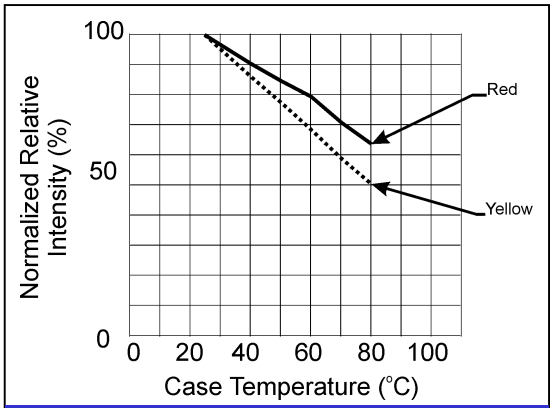
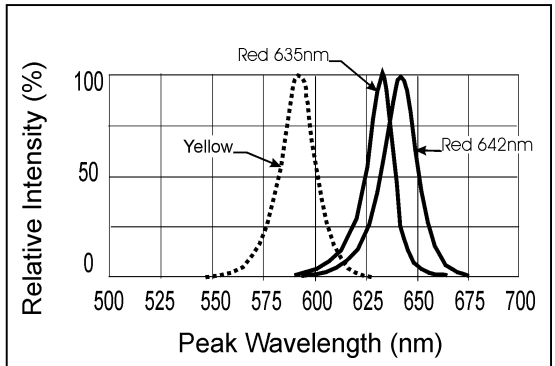
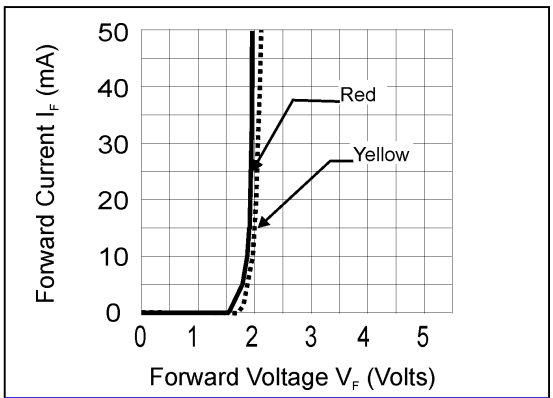
GRAPHICAL DATA AlInGaP (T_A = 25°C, unless otherwise specified)



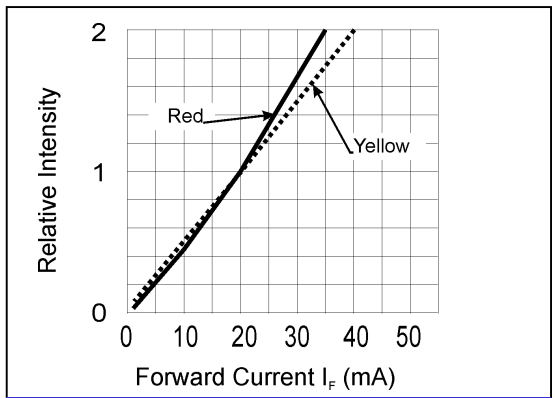
Relative Intensity vs Case Temp.



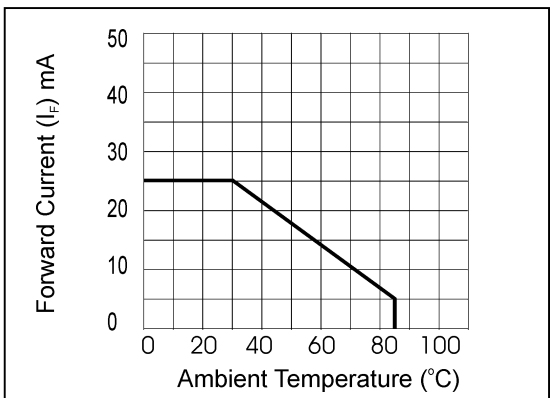
Spectral Response



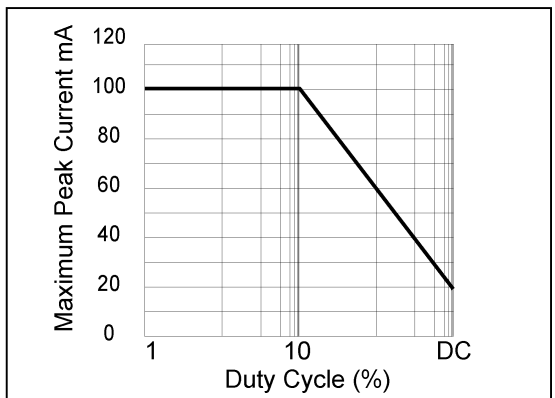
Forward Current vs Forward Voltage



Luminous Intensity vs Forward Current



Maximum Forward Current vs Ambient Temperature



Maximum Peak Current vs Duty Cycle