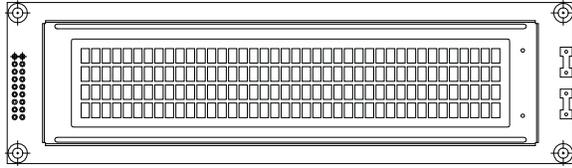


40 x 4 Character LCD


FEATURES

- 5 x 8 dots with cursor
- Built-in controller (KS 0066 or Equivalent)
- + 5V power supply (Also available for + 3V)
- 1/16 duty cycle
- B/L to be driven by pin 1, pin 2 or pin 15, pin 16 or A.K (LED)
- N.V. optional for + 3V power supply

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	190.0 x 54.0	mm
Viewing Area	147.0 x 29.5	mm
Dot Size	0.5 x 0.55	mm
Character Size	2.78 x 4.89	mm

ABSOLUTE MAXIMUM RATING					
ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	VDD-VSS	- 0.3	-	7.0	V
Input Voltage	VI	- 0.3	-	VDD	V

NOTE: VSS = 0 Volt, VDD = 5.0 Volt

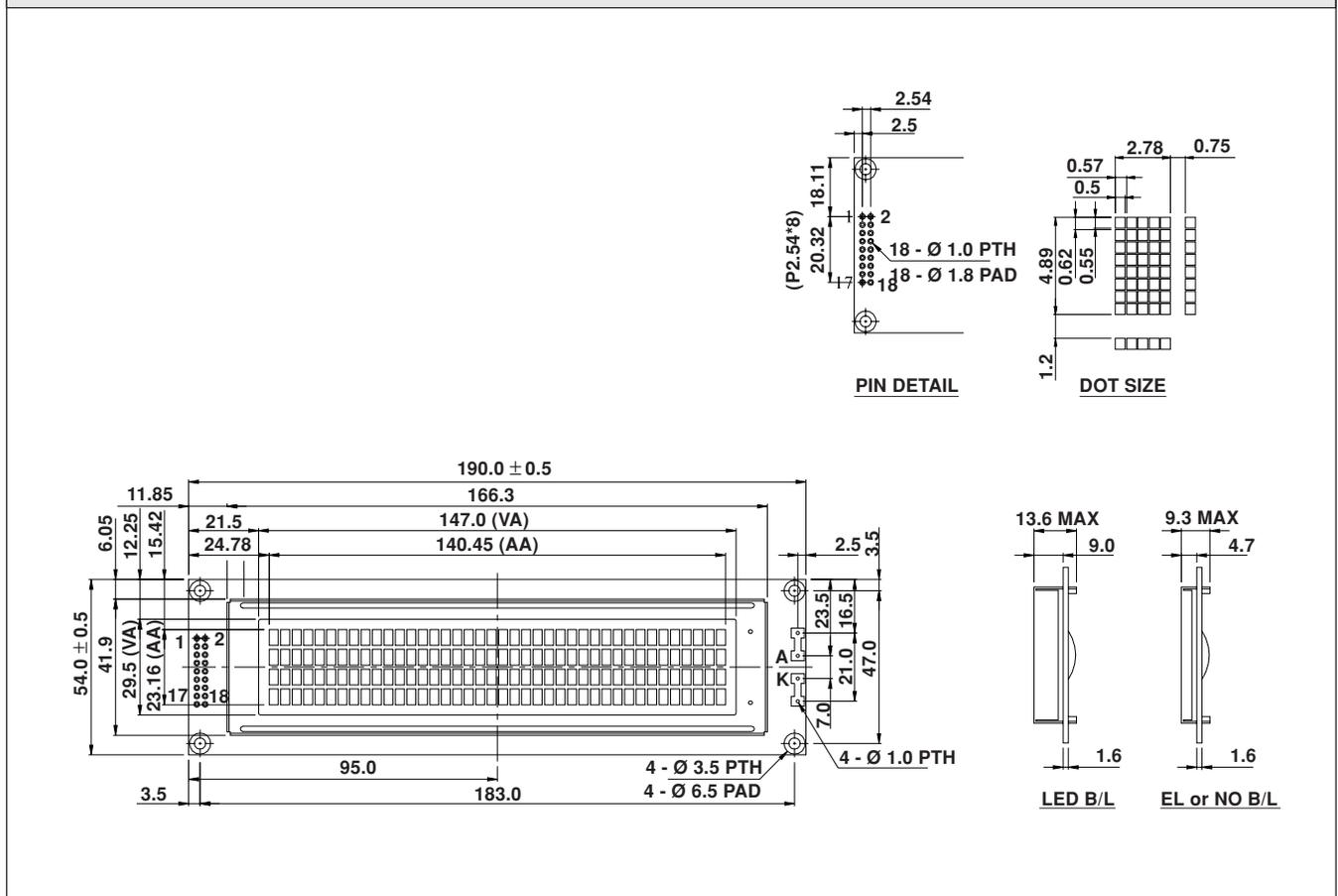
ELECTRICAL SPECIFICATIONS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Input Voltage	VDD	VDD = + 5V	4.7	5.0	5.3	V
		VDD = + 3V	2.7	3.0	5.3	V
Supply Current	IDD	VDD = 5V	-	2.4	3.0	mA
Recommended LC Driving Voltage for Normal Temp. Version Module	VDD - V0	- 20 °C	4.9	5.1	5.5	V
		0 °C	4.5	4.8	5.1	
		25 °C	4.1	4.5	4.7	
		50 °C	3.8	4.2	4.4	
		70 °C	3.5	3.9	4.1	
LED Forward Voltage	VF	25 °C	-	4.2	4.6	V
LED Forward Current	IF	25 °C	-	600	1200	mA
EL Power Supply Current	IEL	Vel = 110VAC:400Hz	-	-	5.0	mA

DISPLAY CHARACTER ADDRESS CODE:																
Display Position	1	2	3	4	5	6	7	8	9	10	11	12	-	-	-	40
DD RAM Address	00	01														27
DD RAM Address	40	41														67
DD RAM Address	00	01														27
DD RAM Address	40	41														67

Line 1
Line 2
Line 3
Line 4

PIN NUMBER	SYMBOL	FUNCTION
1	DB7	Data Bus Line
2	DB6	Data Bus Line
3	DB5	Data Bus Line
4	DB4	Data Bus Line
5	DB3	Data Bus Line
6	DB2	Data Bus Line
7	DB1	Data Bus Line
8	DB0	Data Bus Line
9	E1	H → L Enable Signal
10	R/W	H/L Read/Write
11	RS	Register Select
12	Vo	Contrast Adjustment
13	Vss	GND
14	Vdd	+ 5V
15	E2	H → L Enable Signal IC2
16	NC/Vee	NC/Negative Voltage Output
17	A	LED + 5V/18K GND

DIMENSIONS in millimeters





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