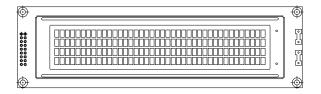




## 40 x 4 Character LCD



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					

#### **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

ABSOLUTE MAXIMUM RATING									
ITEM	SYMBOL	STAN	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	ST	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		
		- 20 °C	4.9	5.1	5.5			
Recommended LC Driving	VDD - V0	0°C	4.5	4.8	5.1			
Voltage for Normal Temp.		25°C	4.1	4.5	4.7	V		
Version Module		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 CHA	ARAC'	TER /	ADDF	RESS	s cc	DE:											
Display Position	1	2	3	4	5	6	7	8	9	10	11	12	_	_	_	40	
DD RAM Address	00	01														27	Line 1
DD RAM Address	40	41														67	Line 2
DD RAM Address	00	01														27	Line 3
DD RAM Address	40	41														67	Line 4

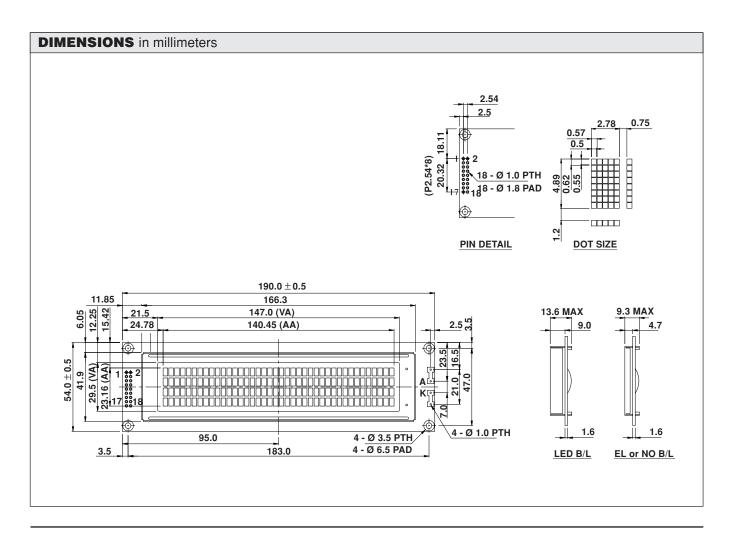
## LCD-040M004A

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### 40 x 4 Character LCD



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	$H \rightarrow L$ Enable Signal IC2
16	NC/Vee	NC/Negative Voltage Output
17	А	LED + 5V/18K GND





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