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40x4 Character

- 5x8 dots incl. cursor
- 1/16 duty
- Controller (KS0066 or Equivalent) built in
- +5V single supply (+3V also available)
- B/L driven by pin1 and 2 or 17 and 18 or A,K

Pin Assignment

No.	Symbol	Function
1- 8	DB7-DB0	Data Bus Line
9	E1	Enable Signal IC1
10	R/W	Read/Write
11	RS	Function Select
12	Vo	LCD Drive
13	Vss	Gnd, 0V
14	Vdd	+5V
15	E2	Enable Signal IC2
16	NC/Vee	NC or Negative Voltage output
17	A	4.2V for LED
18	K	Power Supply for LED 0V

Mechanical Data

Item	Standard Value	Unit
Module Size	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

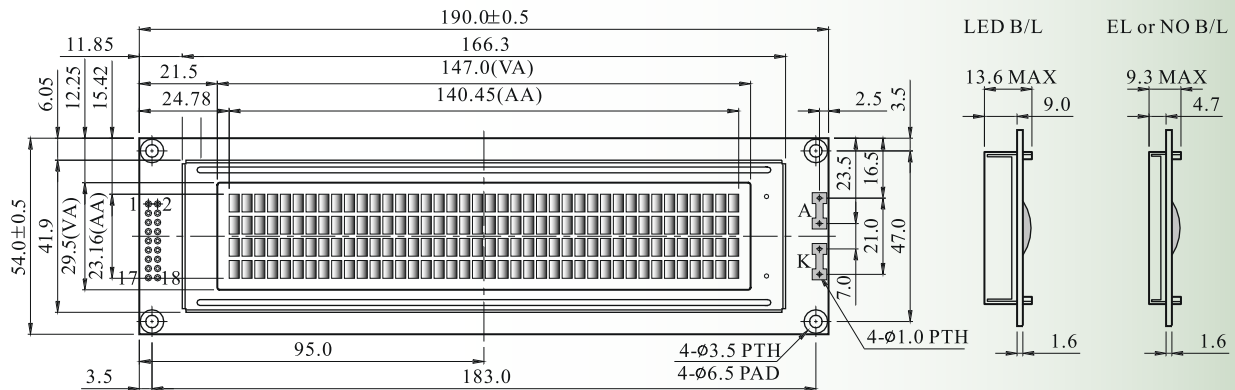
Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
V-Module	Vdd-Vss	-0.3	---	7.0	V
V-Input	VI	-0.3	---	Vdd	V

Vss=0V, Vdd=5.0V

Electronical Characteristics

Item	Symbol	Condit.	Standard Value			Unit
			min.	typ.	max.	
Input Voltage	Vdd	Vdd=+5V	4.7	5.0	5.3	V
		Vdd=+3V	2.7	3.0	3.3	
Supply Curent	Idd	Vdd=+5V	---	3.0	10.0	mA
Recommended LC Driving Voltage for Standard Temp. Modules	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	900	mA
EL Power Supply Current	IEL	Vel=110V AC;400Hz	---	---	5.0	mA



Display Character Address Code

Display position

DD RAM Address	1	2	3	4	5	6	7	8	9	10	11	12	...	40	Line
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

