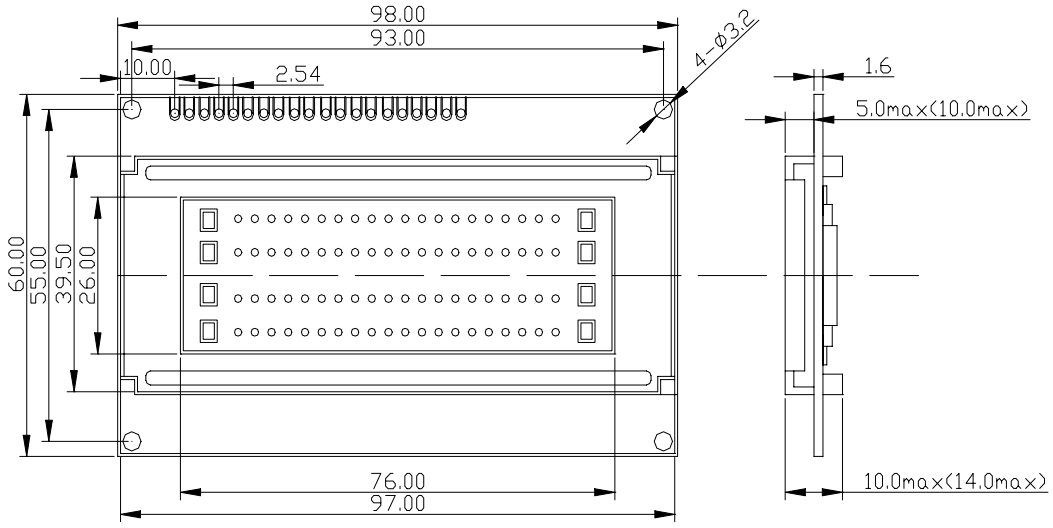
JXD2004A

*20 Characters 4 lines * Controller LSI built-in * +5v single power supply

■EXTERNAL DIMENSIONS AND DISPLAY PATTERN



■MECHANICAL DATA (Nominal dimensions)

module size----------98.0Wx60.0Hx10.0D mm
Effective display area---------- 76.0Wx26.0H mm
Character size(5X8 dots) ---------- 2.95Wx4.75H mm
Character pitch ---------- 3.55 mm
Dot size---------- 0.525Wx0.324H mm
Weight ---------- about 70 g

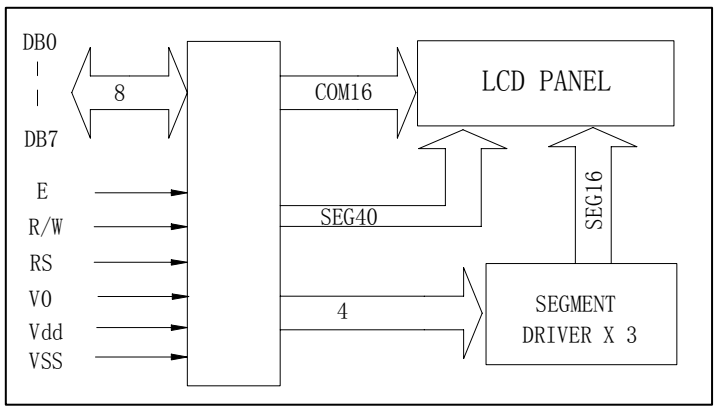
■ABSOLUTE MAXIMUM RATINGS min max

Power supply for logic(Vdd-Vss) ---------- 0 7.0V
power supply for LCD drive(Vdd-V0) --- 0 5.0V
Input voltage(Vi) ---------- Vss VddV
Operating temperature(Ta)----------(-0℃- +50℃)
Stroage temperature(Tstg)----------(-10℃- +60℃)

■ELECTRICAL CHARACTERISTICS

Ta=25℃, Vdd=5.0V±0.25V
Input 'high' voltage(ViH) ---------- 3.5Vmin.
Input 'low' voltage(ViL) ---------- 0.55Vmax.
Output 'high' voltage(VoH)(-IoH+0.1mA) -- 3.75Vmin.
Output 'low' voltage(VoL)(IoL=0.1mA) ----- 1.0Vmax.
Power supply current(Idd)(Vdd=5.0V) --- 2.0mAmax.
Drive method ---------- 1/16Duty , 1/5bias.

■BLOCK DIAGRAM



■ PIN CONNECTION

Pin No.	Symbol	Level	Function
1	Vss	—	0V
2	Vdd	—	+5V
3	Vo	—	—
4	RS	H/L	L:Instruction code input H:Data input
5	R/W	H/L	H:Data read L:Data write
6	E	H,H →L	Enable singnal
7	D0	H/L	**Data bus line ***
8	D1	H/L	
9	D2	H/L	
10	D3	H/L	
11	D4	H/L	
12	D5	H/L	
13	D6	H/L	
14	D7	H/L	
15	LED+	DC5V	
16	LED-	DC0V	

*In case of 4 bits instruction,data is transferred by twice using only 4 buses of D4-D7,and D0-D3 are not used, first operation is higher order 4 bits and second is lower4 bits of 8 bits ,but in case of 8 bits instruction, data is transferred by data by data bus of D0-D7.

■POWER SUPPLY