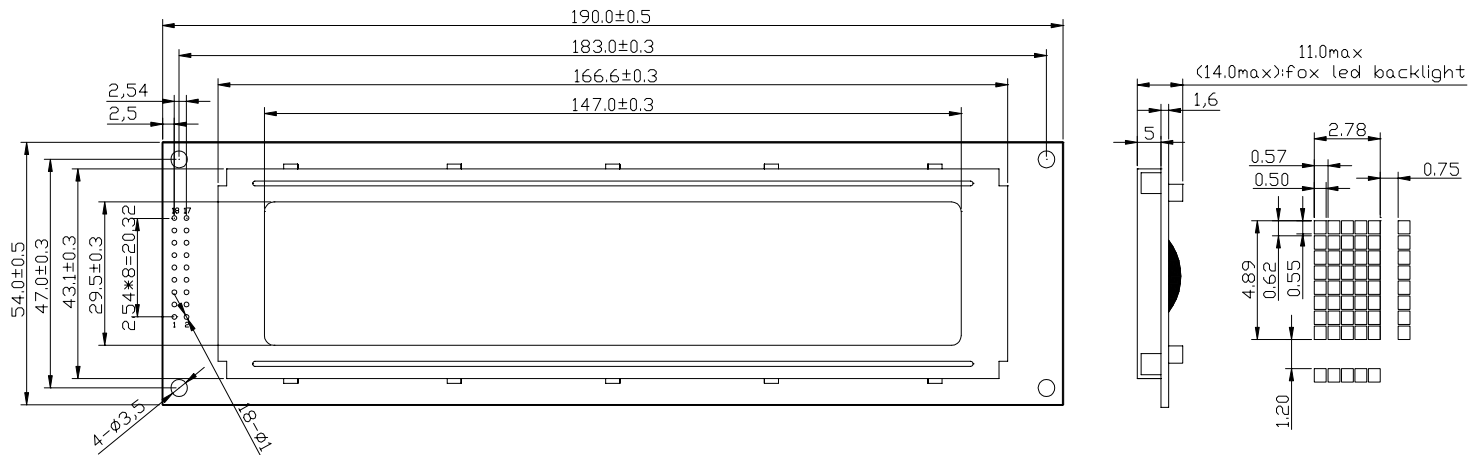


RT4004ASR(L)B

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

EXTERNAL DIMENSIONS AND DISPLAY PATTERN



MECHANICAL DATA (Nominal dimensions)

module size ----- 190.0Wx54.0Hx11.0(14.0)D mm
 Effective display area ----- 147.0Wx29.5H mm
 Character size(5X8 dots) ----- 2.78Wx4.89H mm
 Character pitch ----- 3.53x6.09 mm
 Dot size ----- 0.50Wx0.55H mm

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 60
 Storage temperature(Tstg)----- -10 70

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.

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	E1	H,H→L	Enable signal
7	E2	—	Data bus line *
8	D0	H/L	
9	D1	H/L	
10	D2	H/L	
11	D3	H/L	
12	D4	H/L	
13	D5	H/L	
14	D6	H/L	
15	D7	H/L	
16	NC	—	
17	LED+	—	
18	LED-	—	

BLOCK DIAGRAM

