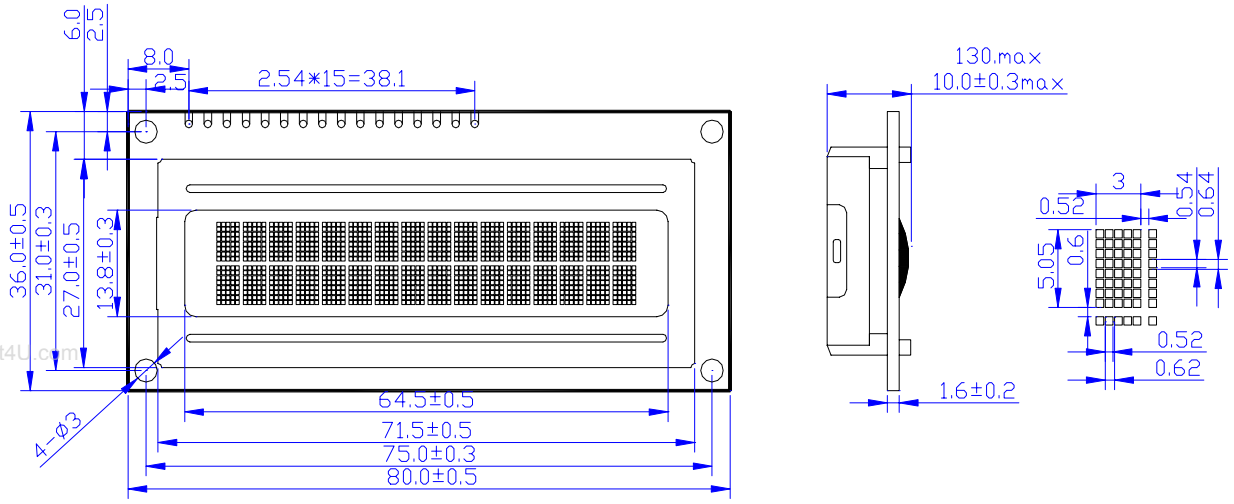
RT1602CSR(L)B

*16 Characters 2 lines *Controller LSI built-in *+5V single power supply

EXTERNAL DIMENSIONS AND DISPLAY PATTERN



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MECHANICAL DATA (Nominal dimensions)

module size ---------- 80.0Wx36.0Hx(10.0)13.0D mm
Effective display area---------- 64.5Wx13.8H mm
Character size(5X8 dots) ---------- 3.0Wx5.05H mm
Character pitch ---------- 3.52WX5.65H mm
Dot size ---------- 0.52Wx0.60H 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℃
Stroage temperature(Tstg)----------10 70℃

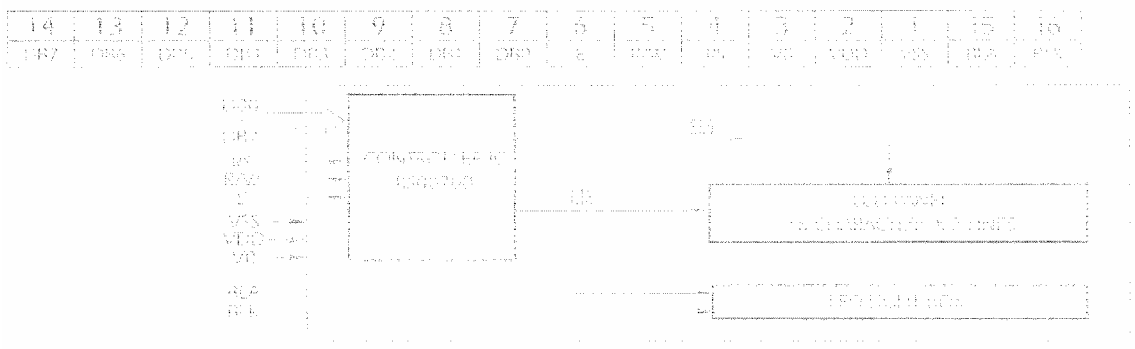
ELECTRICAL CHARACTERISTICS

Ta=25℃, Vdd=5.0V±0.5V
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=1.2mA) ----- 1.0Vmax.
Power supply current(Idd)(Vdd=5.0V) --- 2.0mAmax.
Drive method ---------- 1/16Duty , 1/5bias.

PIN CONNECTION

Pin No.	Symbol	Lever	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/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-	-	Power supply for LED
16	LED+	+	Power supply for LED

BLOCK DIAGRAM



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