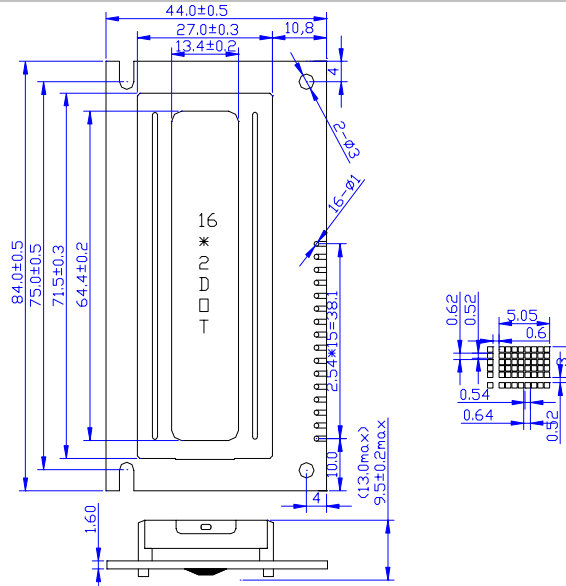


1602-10SR(L)B

*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)		PIN CONNECTION			
module size-----	36.0Wx80.0Hx9.5(13.0)D mm	Pin No.	Symbol	Lever	Function
Effective display area-----	14.0Wx64.5H mm	1	V _{ss}	—	0V
Character size(5X8 dots) -----	5.05Wx3.0H mm	2	V _{dd}	—	+5V
Character pitch -----	5.65WX3.52H mm	3	V _o	—	—
Dot size -----	0.60Wx0.52H mm	4	RS	H/L	L:Instruction code input H:Data input
ABSOLUTE MAXIMUM RATINGS min max		5	R/W	H/L H/L	H:Data read L:Data write
Power supply for logic(V _{dd} -V _{ss}) -----	0 7.0V	6	E	H,H-L	Enable signal
power supply for LCD drive(V _{dd} -V ₀) ----	0 5.0V	7	D0	H/L	Data bus line *
Input voltage(V _i) -----	V _{ss} V _{dd} V	8	D1	H/L	
Operating temperature(T _a) -----	0 60	9	D2	H/L	
Storage temperature(T _{stg})-----	-10 70	10	D3	H/L	
ELECTRICAL CHARACTERISTICS		11	D4	H/L	
T _a =25 , V _{dd} =5.0V±0.5V		12	D5	H/L	
Input 'high' voltage(V _{iH}) -----	3.5Vmin.	13	D6	H/L	
Input 'low' voltage(V _{iL}) -----	0.55Vmax.	14	D7	H/L	
Output 'high' voltage(V _{oH})(-I _{oH} +0.1mA) --	3.75Vmin.	15	LED-	-	Power supply for LED
Output 'low' voltage(V _{oL})(I _{oL} =1.2mA) ----	1.0Vmax.	16	LED+	+	Power supply for LED
Power supply current(I _{dd})(V _{dd} =5.0V) ---	2.0mAmax.				
Drive method -----	1/16Duty , 1/5bias.				

BLOCK DIAGRAM

