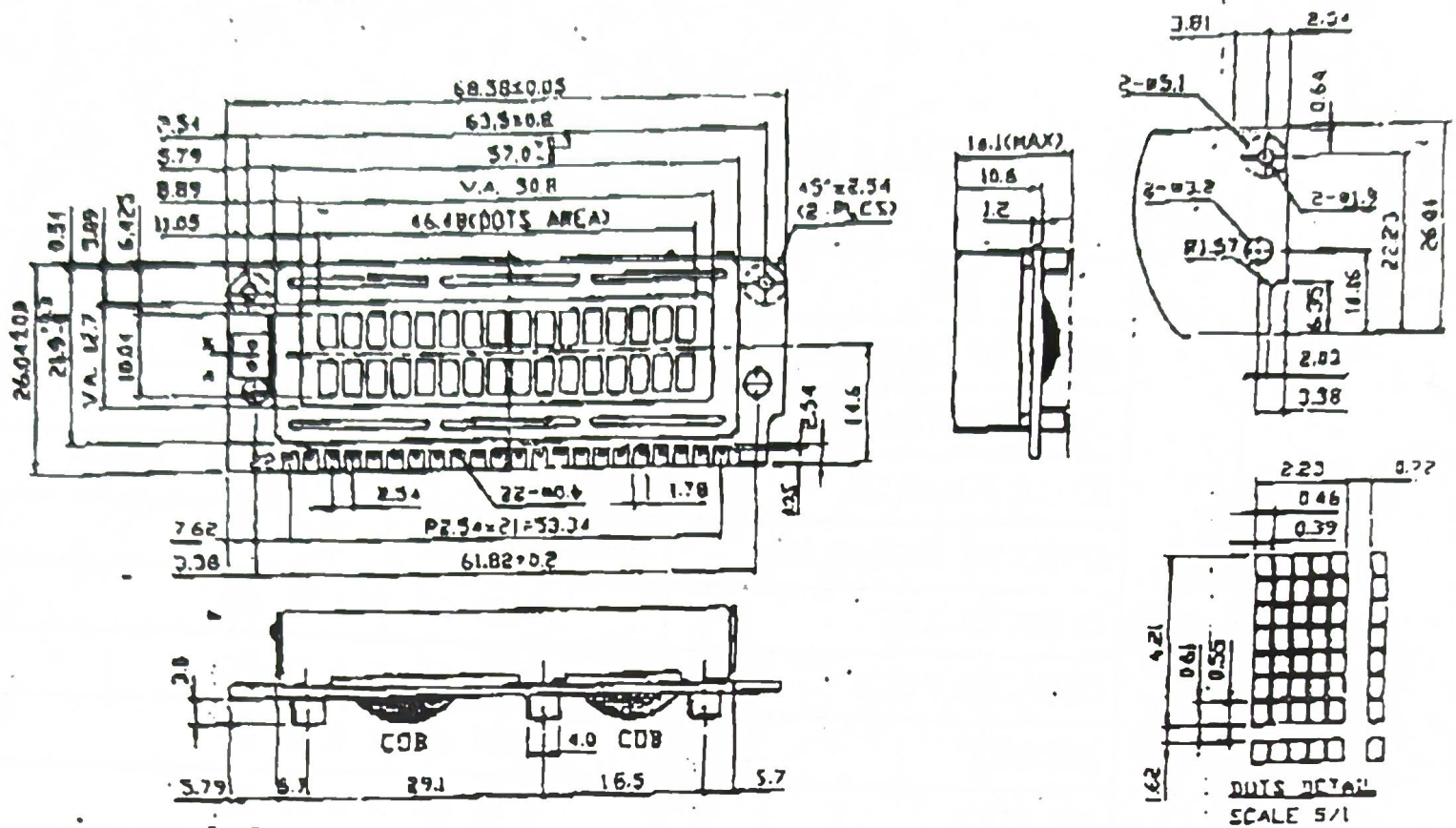
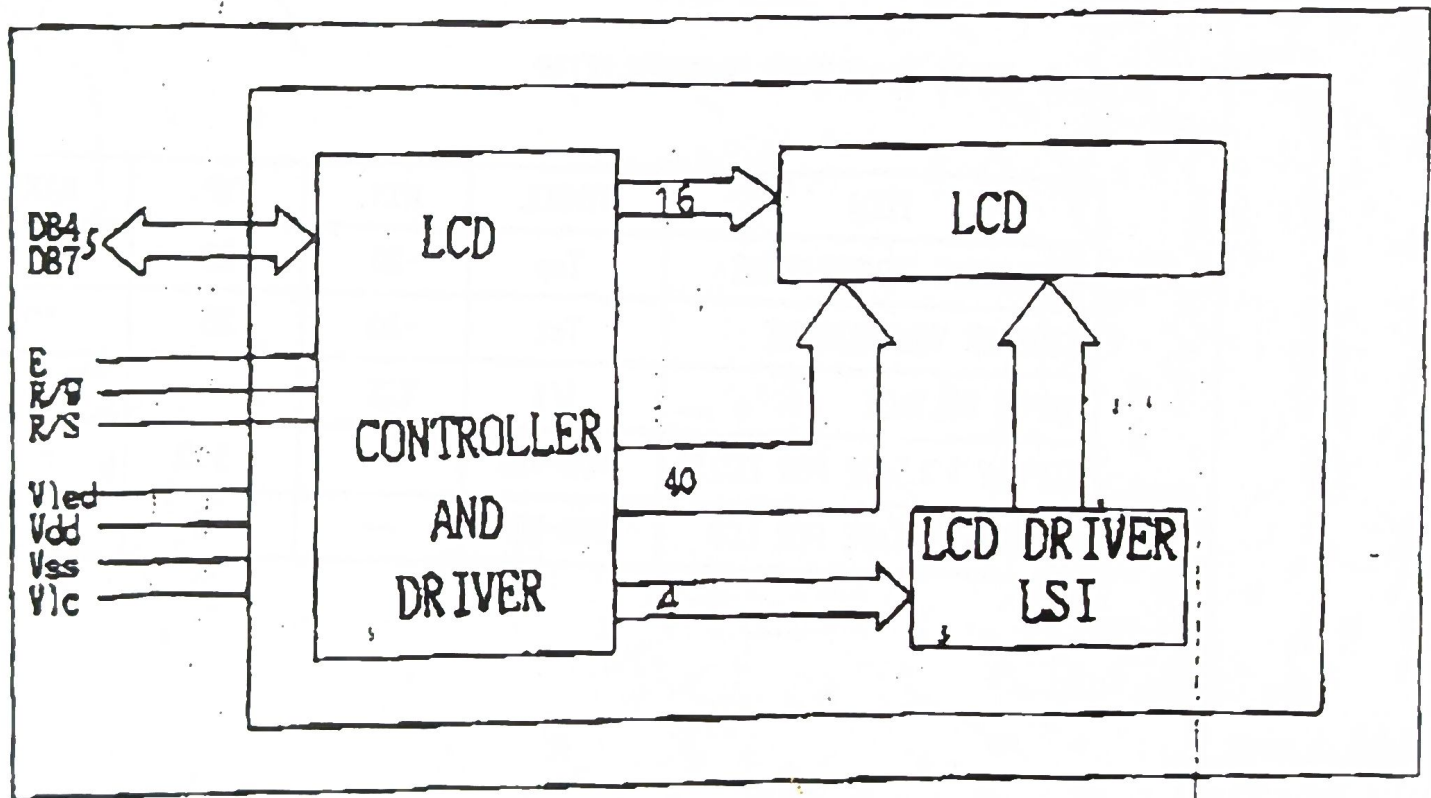


1.0 DIMENSIONAL DIAGRAM



2.0 BLOCK DIAGRAM



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3.0 MECHANICAL SPECIFICATIONS

ITEM	STANDARD VALUE	UNIT
NUMBER OF CHARACTERS	16 CHARACTERS × 2 LINES	—
CHARACTER FORMAT	5 × 7 DOTS WITH CURSOR	—
MODULE DIMENSION	68.58 (W) × 28.04 (H) × 14.1 (D)	mm
EFFECTIVE DISPLAY AREA	50.8 (W) × 12.7 (H)	mm
CHARACTER SIZE	2.23 (W) × 4.21 (H)	mm
CHARACTER PITCH	2.95 (W) × 5.83 (H)	mm
DOT SIZE	0.39 (W) × 0.55 (H)	mm
DOT PITCH	0.46 (W) × 0.61 (H)	mm
WEIGHT	21.6	g

4.0 MAX RATING ABSOLUTE

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
OPERATING TEMPERATURE	Top	-20	23	70	°C
STORAGE TEMPERATURE	Tst	-30	25	80	°C
INPUT VOLTAGE	Vi	VSS	—	VDD	V
SUPPLY VOLTAGE FOR LOGIC	VDD-VSS	—	5.0	6.5	V
SUPPLY VOLTAGE FOR LED	VDD-VO	—	6	6.5	V

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5.0 ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$, $V_{DD}=5.0\text{V}\pm0.25\text{V}$)

ITEM	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
SUPPLY VOLTAGE FOR LED	$V_{DD}-V_o$	$T_a=-20^{\circ}\text{C}$ $T_a=25^{\circ}\text{C}$ $T_a=70^{\circ}\text{C}$	—	7.0 6.0 5.15	—	V
INPUT VOLTAGE	V_I	—	4.75	5.0	5.25	V
INPUT HIGH VOLTAGE	V_{IH}	—	2.2	—	V_{DD}	V
INPUT LOW VOLTAGE	V_{IL}	—	-0.3	—	0.6	V
OUTPUT HIGH VOLTAGE	V_{OH}	—	2.4	—	—	V
OUTPUT LOW VOLTAGE	V_{OL}	—	—	—	0.4	V
SUPPLY CURRENT	I_{DD}	$V_{DD}=5.0\text{V}$	—	0.35	0.6	mA
INPUT LEAKAGE CURRENT	I_{LKG}	—	-1.0	—	1.0	μA

6.0 OPTICAL SPECIFICATIONS ($T_a=25^{\circ}\text{C}$, $V_{DD}=5.0\text{V}\pm0.25\text{V}$)

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
VIEW ANGLE (VERTICALLY) $CR\geq 2$	θ	-30	—	30	DEGREE
VIEW ANGLE (HORIZONTALLY) $CR\geq 4$	ϕ	-40	—	40	DEGREE
CONTRAST RATIO	CR	3	4	—	
RESPONSE TIME 25°C (RISE)	T_{ON}	—	110	220	ms
RESPONSE TIME 25°C (DECAY)	T_{OFF}	—	210	310	ms

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7.0 INTERFACE PIN CONNECTIONS

PIN NO	SYMBOL	LEVEL	PIN DESCRIPTION	FUNCTIONS
1-4	V _{SS}	—	GROUND	0V
5	E	H/H L	ENABLE SIGNAL	ENABLE
6	R/S	H/L	REGISTER SELECTION	H: DATA INPUT L: INSTRUCTION
7-10	V _{SS}	—	GROUND	0V
11	DB7	H/L	DATA BIT 7	DATA BUS LINE
12	DB6	H/L	DATA BIT 6	DATA BUS LINE
13	DB5	H/L	DATA BIT 5	DATA BUS LINE
14	DB4	H/L	DATA BIT 4	DATA BUS LINE
15	R/W	H/L	READ/WRITE	H: READ L: WRITE
16	V _{LC}	—	LIQUID CRYSTAL DRIVING VOLTAGE	6.0V <i>POT CNT</i>
17	V _{LED}	—	ANODE OF LED	4.1V
18	V _{DD}	—	SUPPLY VOLTAGE FOR LOGIC	5V ± 5%
19-22	V _{SS}	—	GROUND	0V

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