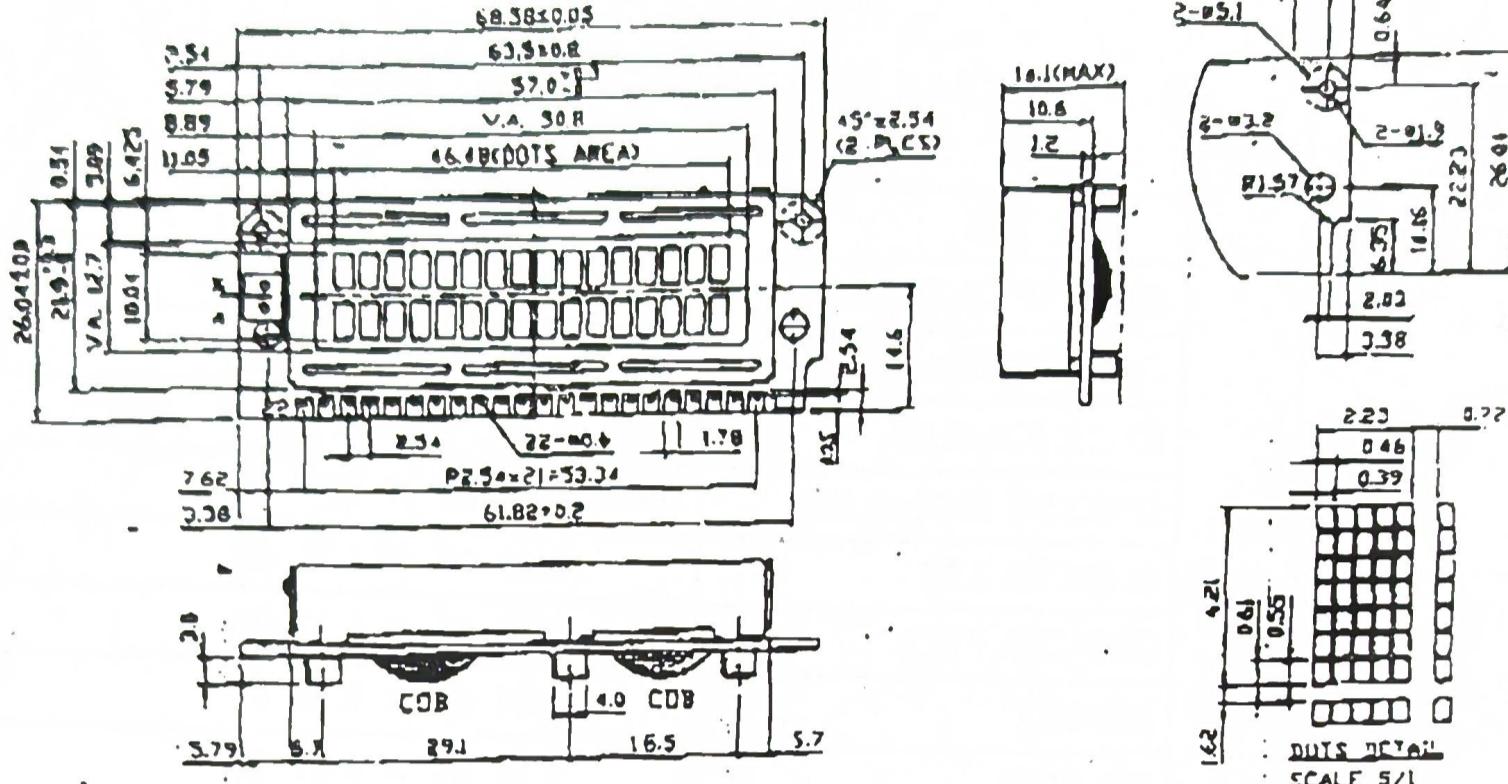
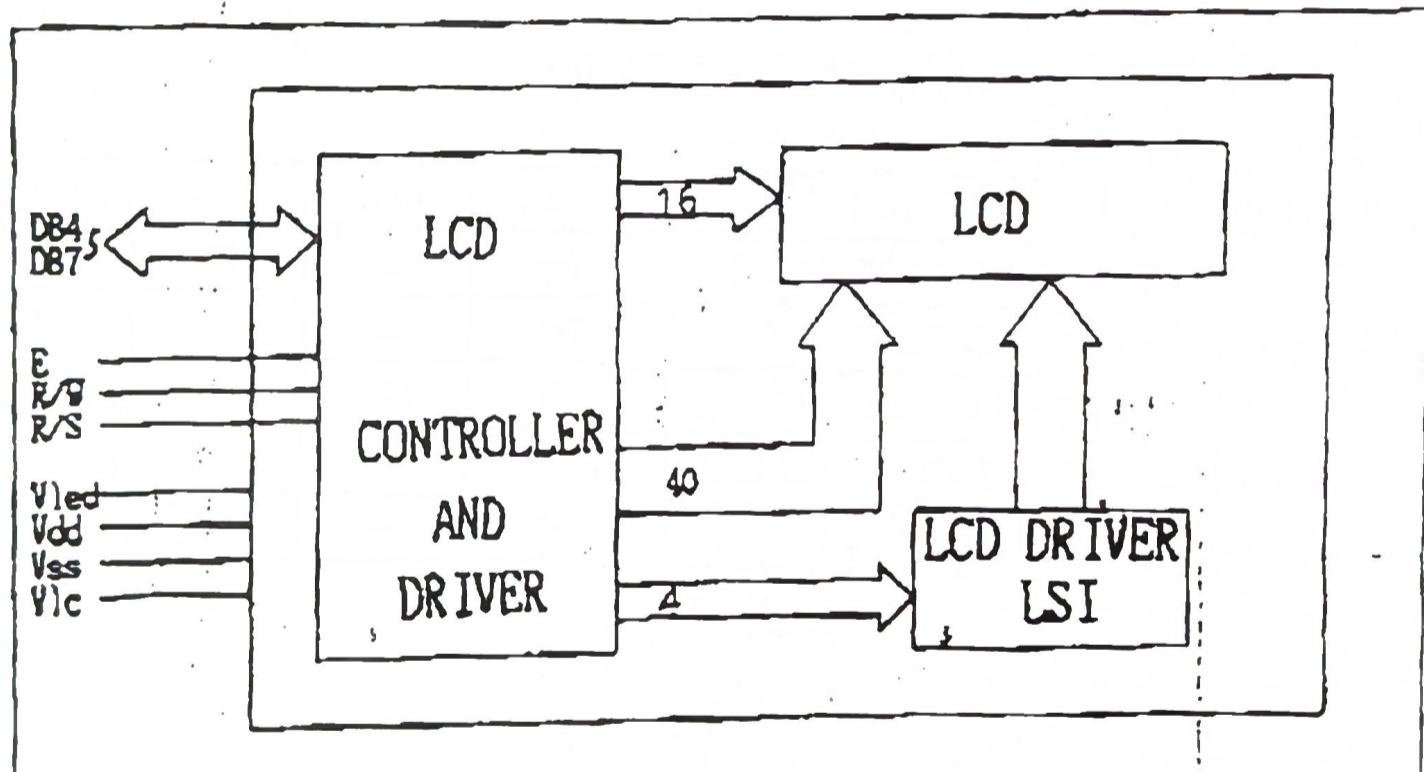


1.0 DIMENSIONAL DIAGRAM



2.0 BLOCK DIAGRAM



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LCM NO: PC066PGLC1

REF.NO : 9506601

REV. : A

3.0 MECHANICAL SPECIFICATIONS

ITEM	STANDARD	VALUE	UNIT
NUMBER OF CHARACTERS	16 CHARACTERS X 2 LINES		—
CHARACTER FORMAT	5 X 7 DOTS WITH CURSOR		—
MODULE DIMENSION	88.58 (W) X 28.04 (H) X 14.1 (D)		mm
EFFECTIVE DISPLAY AREA	50.8 (W) X 12.7 (H)		mm
CHARACTER SIZE	2.23 (W) X 4.21 (H)		mm
CHARACTER PITCH	2.95 (W) X 5.83 (H)		mm
DOT SIZE	0.39 (W) X 0.55 (H)		mm
DOT PITCH	0.46 (W) X 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	5.5	V
SUPPLY VOLTAGE FOR LCD	VDD-VO	—	6	8.5	V

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5.0 ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$, $VDD=5.0V \pm 0.25V$)

ITEM	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
SUPPLY VOLTAGE FOR LCD	$VDD-V_o$	$T_a=-20^\circ C$ $T_a=25^\circ C$ $T_a=70^\circ C$	-	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	-	VDD	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}	$VDD=5.0V$	-	0.35	0.6	mA
INPUT LEAKAGE CURRENT	I_{LKG}	-	-1.0	-	1.0	uA

6.0 OPTICAL SPECIFICATIONS ($T_a=25^\circ C$, $VDD=5.0V \pm 0.25V$)

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
VIEW ANGLE (VERTICALLY) $CR \geq 2$	θ	-30	-	30	DEGREE
VIEW ANGLE (HORIZONTALLY) $CR \geq 4$	θ	-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	5.0V	POT CUT
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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