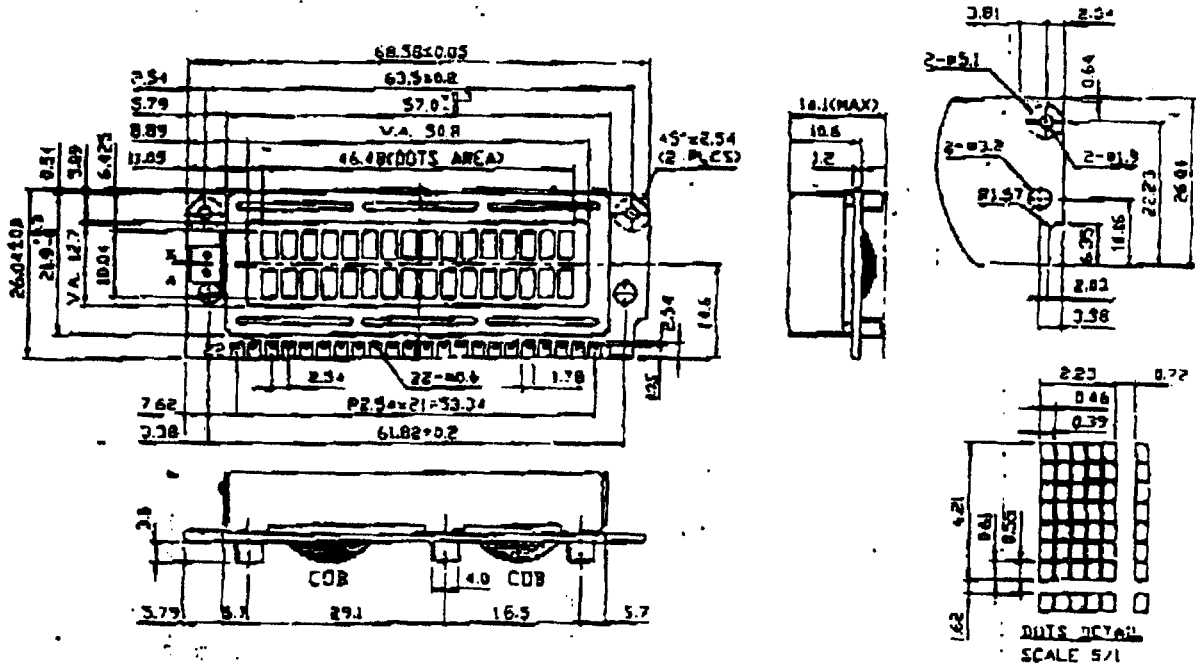
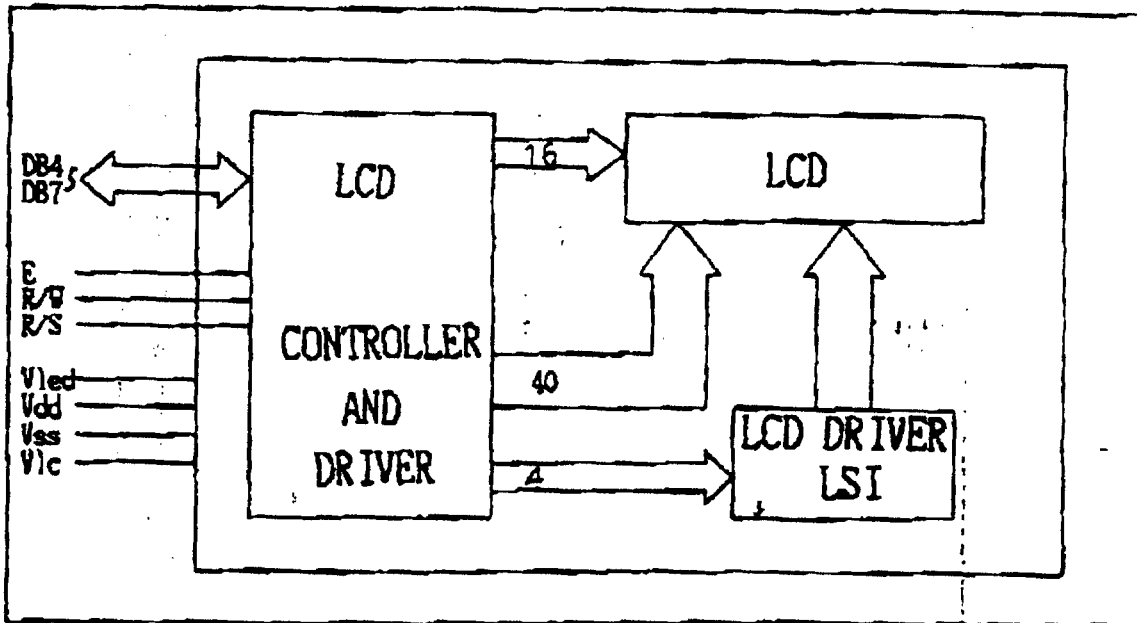


**SPEC. SHEET
FOR
9237-OP**

1.0 DIMENSIONAL DIAGRAM



2.0 BLOCK DIAGRAM



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LCM NO: PC066PGL01

REF. NO: 9506601

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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	T _{op}	-20	23	70	°C
STORAGE TEMPERATURE	T _{st}	-30	25	80	°C
INPUT VOLTAGE	V _i	VSS	—	VDD	V
SUPPLY VOLTAGE FOR LOGIC	VDD-VSS	—	5.0	6.5	V
SUPPLY VOLTAGE FOR LCD	VDD-V ₀	—	6	6.5	V

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5.0 ELECTRICAL CHARACTERISTICS (Ta=25°C, VDD=5.0V ± 0.25V)

ITEM	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
SUPPLY VOLTAGE FOR LCD	VDD-Vo	Ta=-20°C Ta=25°C Ta=70°C	—	7.0 6.0 5.15	—	V
INPUT VOLTAGE	VI	—	4.75	5.0	5.25	V
INPUT HIGH VOLTAGE	VIH	—	2.2	—	VDD	V
INPUT LOW VOLTAGE	VIL	—	-0.3	—	0.5	V
OUTPUT HIGH VOLTAGE	VOH	—	2.4	—	—	V
OUTPUT LOW VOLTAGE	VOL	—	—	—	0.4	V
SUPPLY CURRENT	IDD	VDD=5.0V	—	0.35	0.6	mA
INPUT LEAKAGE CURRENT	ILKG	—	-1.0	—	1.0	uA

6.0 OPTICAL SPECIFICATIONS (Ta=25°C, VDD=5.0V ± 0.25V)

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
VIEW ANGLE (VERTICALLY) CR≥2	θ	-30	—	30	DEGREE
VIEW ANGLE (HORIZONTALLY) CR≥4	φ	-40	—	40	DEGREE
CONTRAST RATIO	CR	3	4	—	
RESPONSE TIME 25°C (RISE)	TON	—	110	220	ms
RESPONSE TIME 25°C (DECAY)	TOFF	—	210	310	ms

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
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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