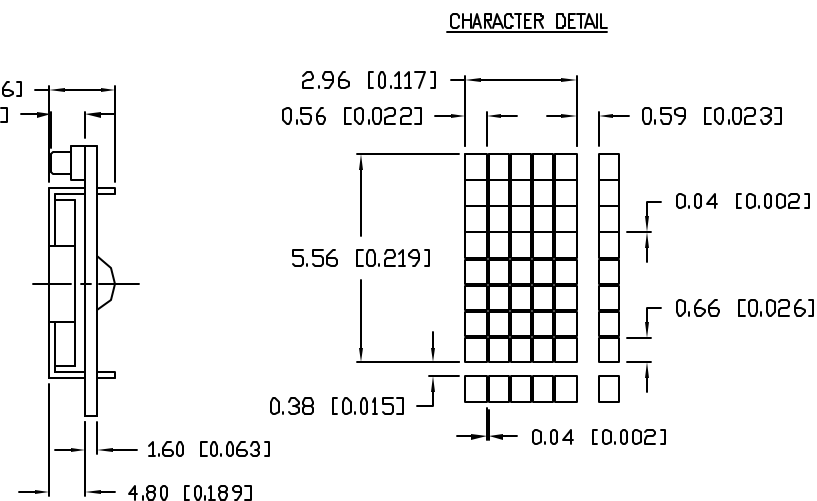
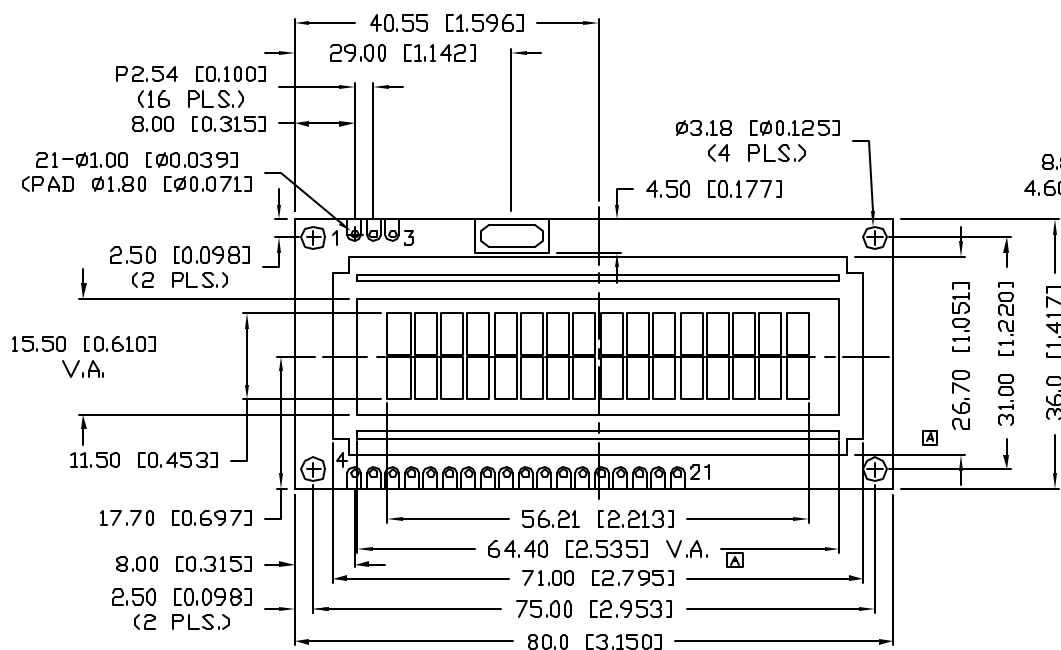


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PART NUMBER		REV.
LCM-E01602DSR		D
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10677.	11.10.00
B	E.C.N. #10707.	1.17.01
C	E.C.N. #10723.	3.19.01
D	E.C.N. #11148.	02.13.07



CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

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*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.=+0.00 DECIMAL PRECISION MAX.=+0.00 DECIMAL PRECISION

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5.56 CHARACTER HEIGHT, 16 x 2 CHARACTERS, LCD MODULE, 5 x 8 DOT MATRIX, SERIAL INPUT, STN, REFLECTIVE.		DRAWN BY: JC	CHECKED BY: APPROVED BY: DATE: 10.12.00 PAGE: 1 OF 3 SCALE: N/A

PIN CONFIGURATION

PIN NO.	SYMBOL	I/O	FUNCTION	
1	Vss	I	POWER SUPPLY	GND (0V)
2	VDD	I		3.3V
3	RXD	I		SERIAL DATA
4~11	P1.0~1.7	I/O	8-BIT BIDIRECTIONAL I/O PORT	
12~17	P3.1~3.5,3.7	I/O	BIDIRECTIONAL I/O PORT WITH INTERNAL PULLUP	
18	XTAL1	I	INPUT TO INVERTING OSCILLATOR AMPLIFIER & INTERNAL CLOCK OPERATING CIRCUIT	
19	RST	I	RESET FOR AT89C2051	
20	Vss	I	GND (0V)	
21	Vcc	I	SUPPLY VOLTAGE FOR AT89C2051	

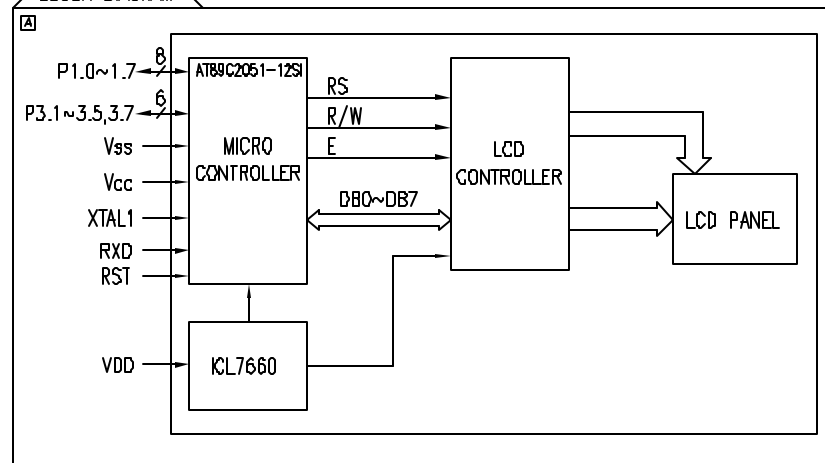
ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
SUPPLY VOLTAGE	Vcc	—	2.7	—	6.0	V
SUPPLY CURRENT	Icc	ACTIVE MODE 12MHz, Vcc=3V	—	—	5.5	mA
SUPPLY VOLTAGE FOR LCD DRIVE	Vo	Ta=25°C	—	0.8	—	V

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	STANDARD VALUE		UNIT
		MIN	MAX	
SUPPLY VOLTAGE	Vcc	—	6.6	V
VOLTAGE ON ANY PIN W/RESPECT TO GND	—	-1.0	+7.0	V
DC OUTPUT CURRENT	Iout	Icc	25.0	mA
OPERATING TEMPERATURE	Topr	-20	70	°C
STORAGE TEMPERATURE	Tstg	-30	85	°C

BLOCK DIAGRAM



NOTES:

1. 10K~20K POTENTIOMETER ON PCB TO ADJUST CONTRAST.

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REV.

D

PART NUMBER

LCM-E01602DSR

5.56 CHARACTER HEIGHT, 16 x 2 CHARACTERS, LCD MODULE,
5 x 8 DOT MATRIX, SERIAL INPUT, STN, REFLECTIVE.

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JC

CHECKED BY:

APPROVED BY:

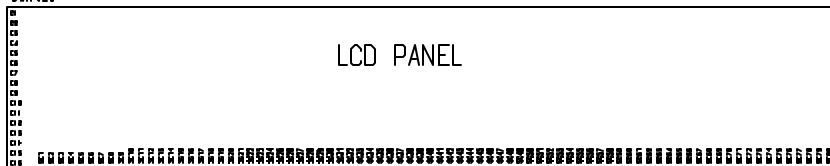
DATE: 10.12.00

PAGE: 2 OF 3

SCALE: N/A

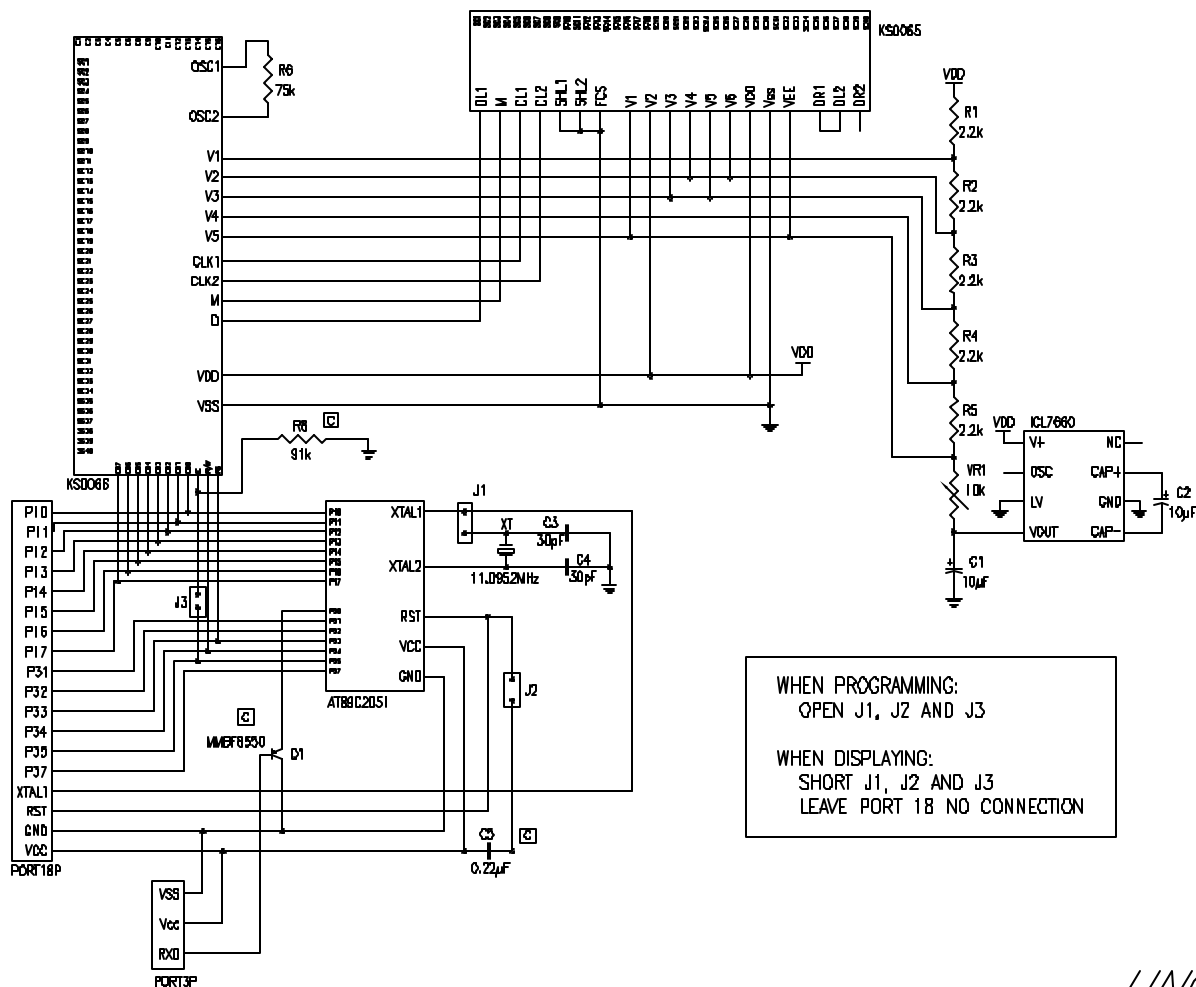
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DM1625



LCD PANEL

PART NUMBER		REV.
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	SEE PAGE 1.	



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