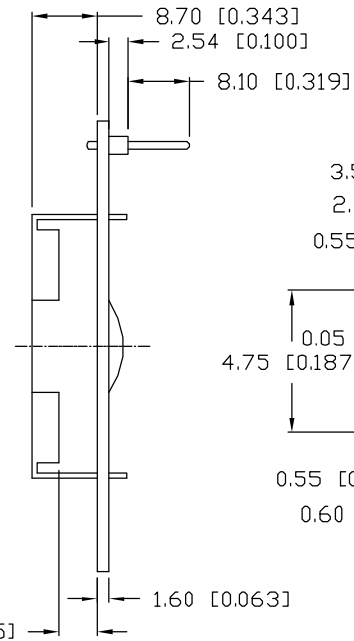
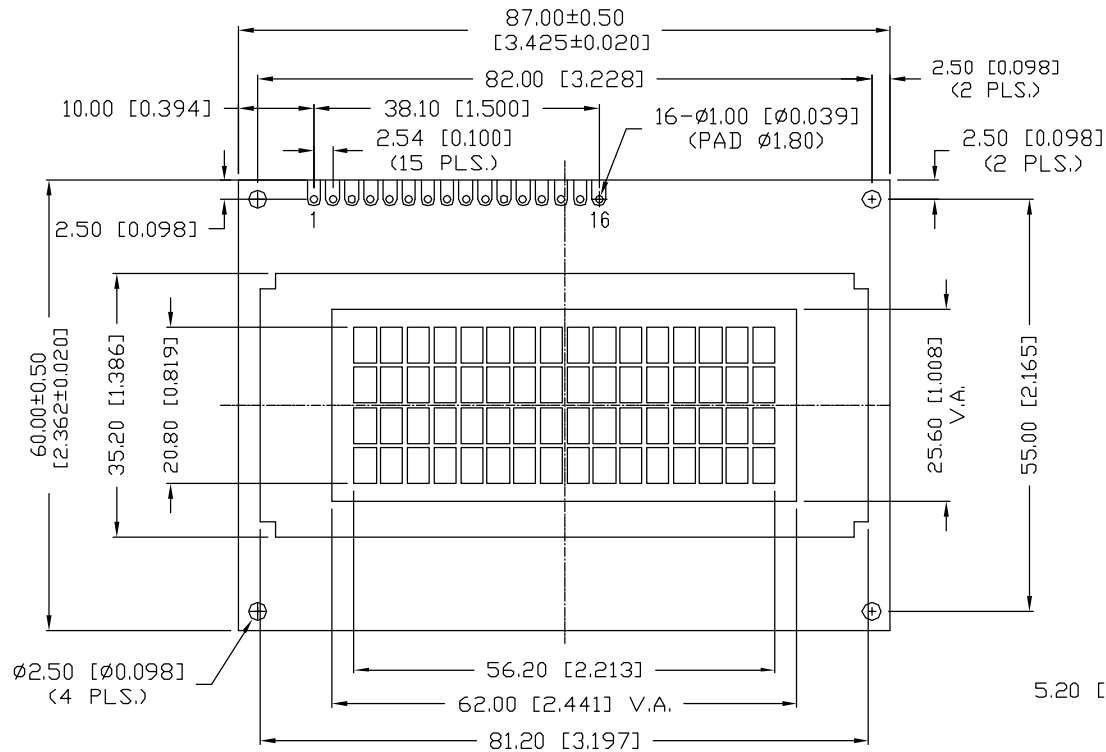
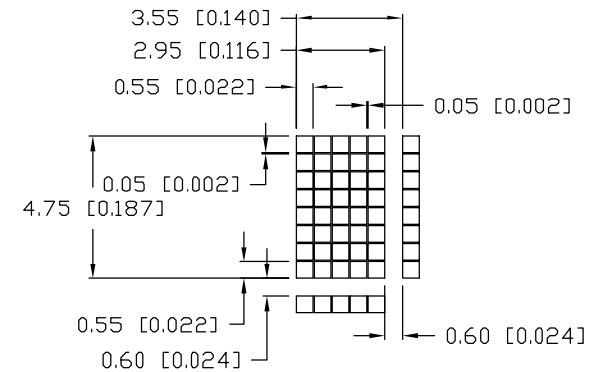


PART NUMBER
LCM-S01604DSF43157

REV.



CHARACTER DETAIL



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

*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= +DECIMAL PRECISION MAX= +0.00 -0.00 -DECIMAL PRECISION

REV.

PART NUMBER

LCM-S01604DSF43157

4.75mm TALL, 5 X 8 DOT MATRIX, STN POSITIVE GRAY,
WHITE LED BACK LIGHT, 3.3V SUPPLY,
16 X 4 CHARACTER LCD MODULE, 1/16 DUTY, 1/5 BIAS.

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RELIABILITY NOTE

OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



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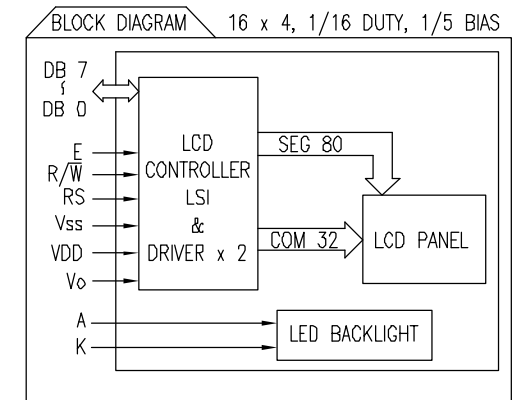
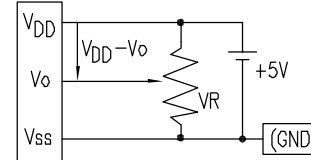
DATE: 02.27.09

PAGE: 1 OF 2

SCALE: N/A

PIN CONFIGURATION				
PIN NO.	SYMBOL	LEVEL	FUNCTION	
1	V _{SS}	—	POWER SUPPLY	GND (0V)
2	V _{DD}	—		3.3V
3	V _O	—		FOR LCD DRIVE
4	RS	H/L	REGISTER SELECT SIGNAL H: DATA INPUT L: INSTRUCTION INPUT	
5	R/ $\overline{W}$	H/L	H: DATA READ (MODULE $\rightarrow$ MPU) L: DATA WRITE (MODULE $\leftarrow$ MPU)	
6	E	H,H $\rightarrow$ L	ENABLE	
7~14	DB0~DB7	H/L	DATA BUS—SOFTWARE SELECTABLE 4 OR 8 BIT MODE.	
15	A	3.4V	ANODE	LED BACKLIGHT
16	K	—	CATHODE	LED BACKLIGHT

V_{DD}-V_O: LCD DRIVING VOLTAGE
VR: 10K Ω -20K Ω



ELECTRICAL CHARACTERISTICS			V _{DD} =4.7V to 5.3V, T _A =25°C					
ITEM		SYMBOL	CONDITION	STANDARD VALUE			UNIT	
				MIN.	TYP.	MAX.		
SUPPLY VOLTAGE FOR LOGIC		V _{DD} -V _{SS}	—	2.7	3.3	4.5	V	
SUPPLY CURRENT FOR LOGIC		I _{DD}	V _{DD} =5V	2.7	3.3	4.5	mA	
INPUT VOLTAGE		HIGH V _{IH}	—	2.2	—	V _{DD}	V	
		LOW V _{IL}	—	0	—	0.6	V	
LED BACKLIGHT	VOLTAGE		V _f	If=260mA	—	3.4	3.6	V
	CURRENT		I _f	—	—	40	—	mA
	POWER CONSUMPTION		PD	—	—	136	—	mW
	LUMINOUS		L	If=40mA	100	150	—	cd/m ²
	COLOR: WHITE		λ _p	X Y	If=40mA	0.29	0.31	0.33
0.30						0.32	0.34	

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	T _a =25°C	2.7	4.5	V
SUPPLY VOLTAGE FOR LCD DRIVE	V _{DD} -V _O	-	2.7@50°C	4.5@0°C	V
INPUT VOLTAGE	V _I	T _a =25°C	V _{SS}	V _{DD}	V
OPERATING TEMPERATURE	T _{opr}	LCM-S	0	50	°C
STORAGE TEMPERATURE	T _{stg}	LCM-S	-20	70	°C

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REV.

PART NUMBER

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