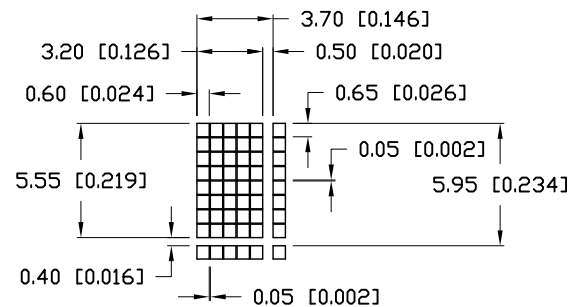


CHARACTER DETAIL

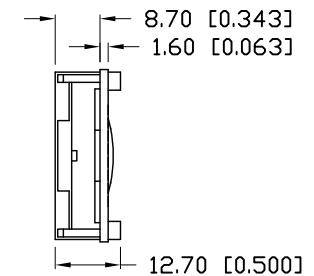
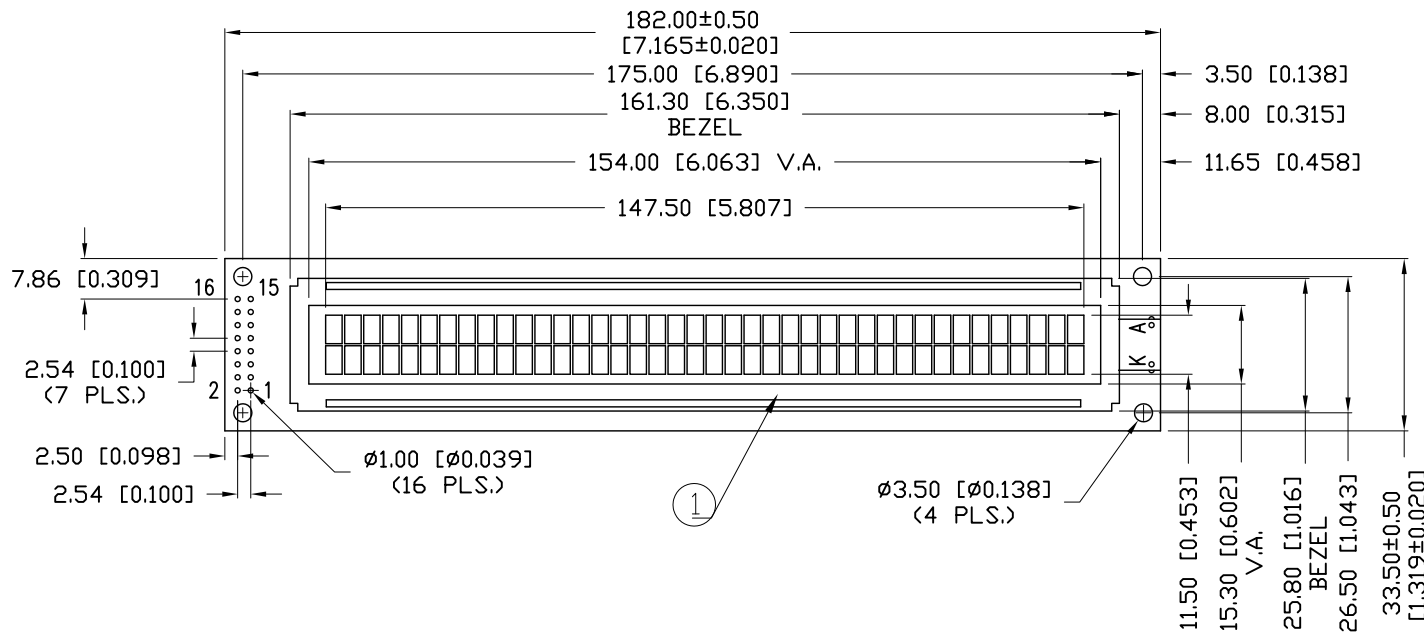
CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.



PIN No.	SIGNAL
1	VSS
2	VDD
3	VO
4	RS
5	R/W
6	E
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	A
16	K

NOTES:

1. BLACK FRAME.



*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 -0.00 MAX.= +0.00 -DECIMAL PRECISION

REV.

PART NUMBER

LCM-S04002DSF/AB

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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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5.55mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX, 40 x 2 LCD
STN, TRANSFLECTIVE, 5V Y/G LED BACKLIGHT, BLACK FRAME,
CHARACTER MODULE, 1/16 DUTY, 1/5 BIAS.

DRAWN BY:

MA

CHECKED BY:

DT

APPROVED BY:

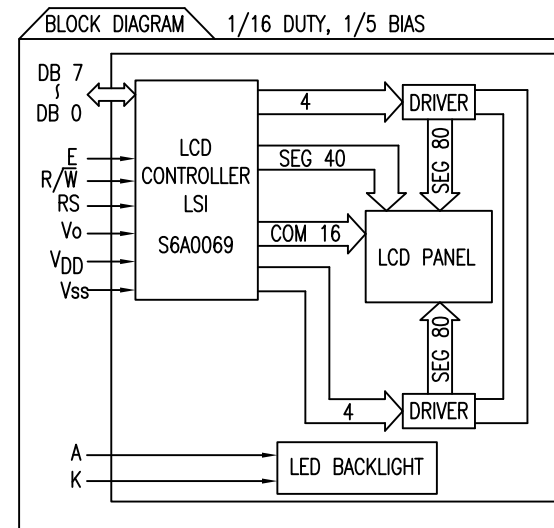
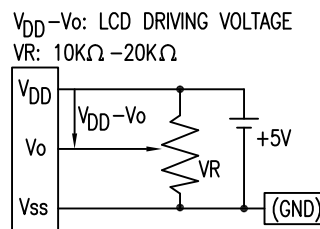
DT

DATE: 10.14.13

PAGE: 1 OF 2

SCALE: N/A

PIN CONFIGURATION				
PIN NO.	SYMBOL	LEVEL	FUNCTION	
1	V _{SS}	—	POWER SUPPLY	GND (0V)
2	V _{DD}	—		5V
3	V _O	—		CONTRAST ADJUST
4	RS	H/L	REGISTER SELECT SIGNAL H: DATA INPUT L: INSTRUCTION INPUT	
5	R/ $\overline{W}$	H/L	H: DATA READ (MODULE-->MPU) L: DATA WRITE (MODULE<--MPU)	
6	E	H,H->L	ENABLE	
7~14	DB0~DB7	H/L	DATA BUS—SOFTWARE SELECTABLE 4 OR 8 BIT MODE.	
15	A	4.2V	ANODE	LED BACKLIGHT (+)
16	K	GND	CATHODE	LED BACKLIGHT (-)



ELECTRICAL CHARACTERISTICS		V _{DD} =4.7V to 5.3V, T _A =25°C				
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	—	MIN.	TYP.	MAX.	V
SUPPLY CURRENT FOR LOGIC	I _{DD}	V _{DD} =5V	—	3.0	5.0	mA
INPUT VOLTAGE	HIGH	V _{IH}	—	2.2	—	V _{DD}
	LOW	V _{IL}	—	0	—	0.6
OUTPUT VOLTAGE	HIGH	V _{OH}	—	2.4	—	V
	LOW	V _{OL}	—	—	0.4	V
LED BACKLIGHT	VOLTAGE	V _f	I _f =280mA	—	5.0	5.5
	CURRENT	I _f	—	—	280	—
	POWER CONSUMPTION	P _D	—	—	1900	—
	LUMINOUS	L	I _f =280mA	110	170	—
	COLOR	—	—	—	574	—

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	T _a =25°C	MIN	MAX	V
SUPPLY VOLTAGE FOR LCD DRIVE	V _{DD} -V _O	—	—0.3	12.0	V
INPUT VOLTAGE	V _I	T _a =25°C	—0.3	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
	LCM-S04002DSF/AB
5.55mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX, 40 x 2 LCD STN, TRANSFLECTIVE, 5V Y/G LED BACKLIGHT, BLACK FRAME, CHARACTER MODULE, 1/16 DUTY, 1/5 BIAS.	

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