

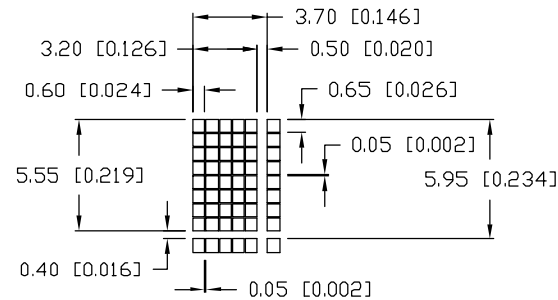
PART NUMBER
LCM-S04002DSF-Y1P

REV.

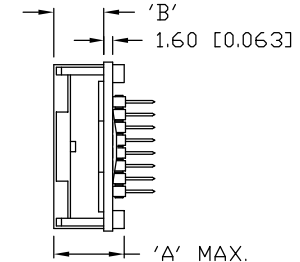
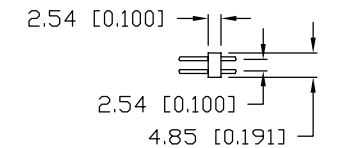
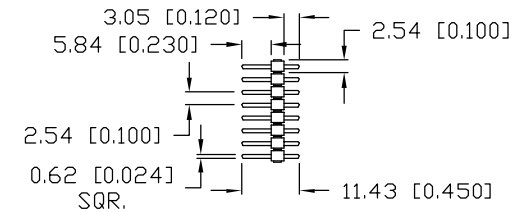
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REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & REDRAWN.	9-25-98

CHARACTER DETAIL



PIN DETAIL



TYPE	DIM.	A	B
WITH BACKLIGHT		12.7	8.7
NO BACKLIGHT		8.8	4.7

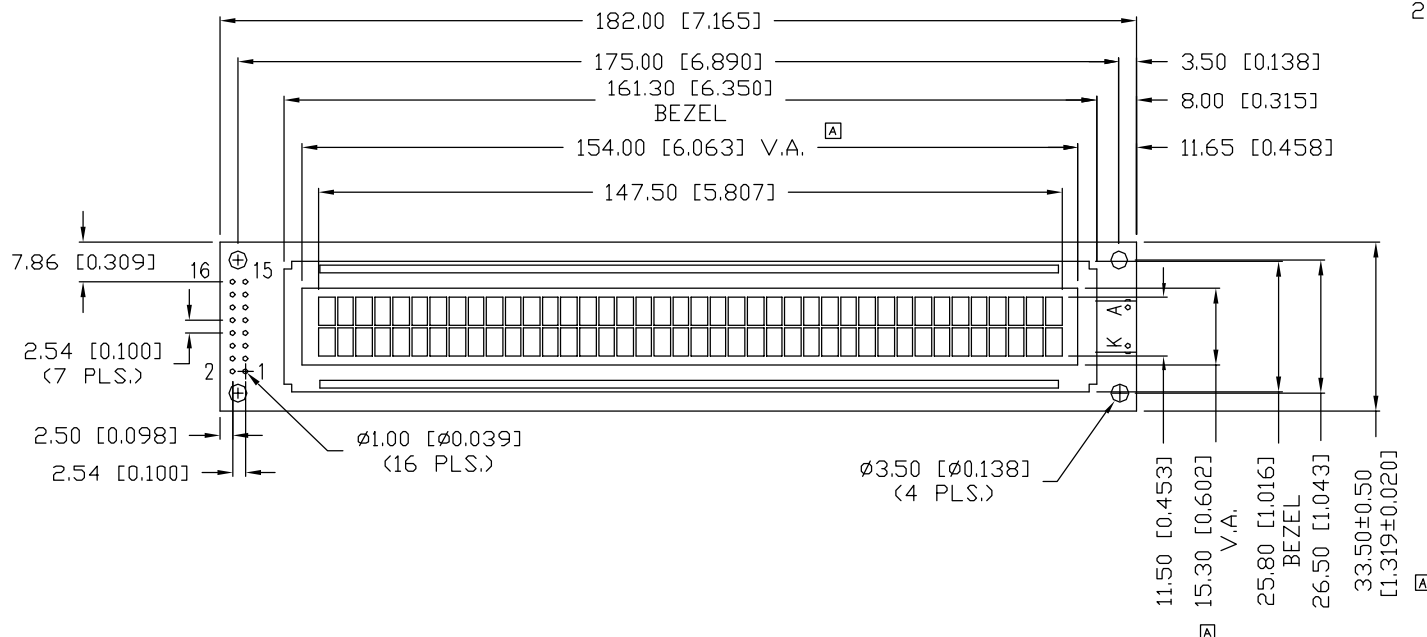
[A]

*UNLESS OTHERWISE SPECIFIED TOLERANCE IS $\pm 0.25\text{mm}$ ($\pm 0.010"$)

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

NOTES:

1. 8 x 2 HEADER PINS.
2. 0.000030" GOLD PLATED.
3. BERG P/N 67997-516 OR EQUIVALENT.



REV.

A

PART NUMBER

LCM-S04002DSF-Y1P

5.55mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX,
40 x 2 CHARACTER LCD MODULE, STN YELLOW,
1/16 DUTY, 1/5 BIAS, 12:00 VIEW, WITH PINS.

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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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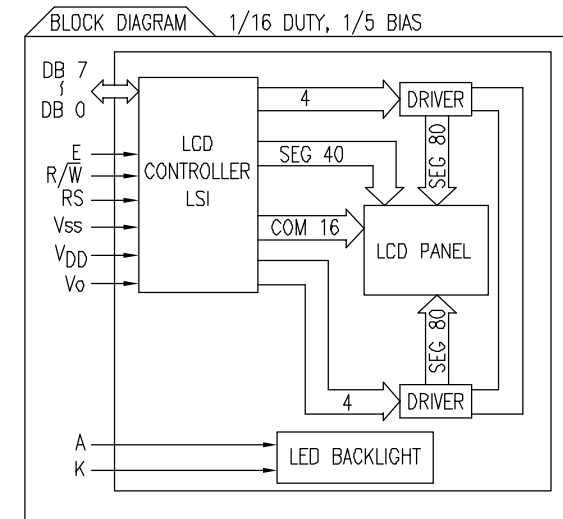
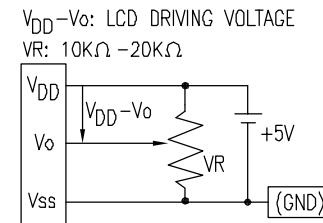
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DU/BC			PAGE: 1 OF 2
			SCALE: N/A

PART NUMBER		REV.
LCM-S04002DSF-Y1P		A
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & REDRAWN.	12-31-99

PIN CONFIGURATION					
PIN NO.	SYMBOL	LEVEL	FUNCTION		
1	V _{SS}	—	POWER SUPPLY	GND (0V)	
2	V _{DD}	—		5V	
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-->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	—	ANODE	LED BACKLIGHT	
16	K	—	CATHODE	LED BACKLIGHT	



ELECTRICAL CHARACTERISTICS					
V _{DD} =4.7V to 5.3V, T _A =25°C					
ITEM	SYMBOL	CONDITION	STANDARD VALUE		
			MIN.	TYP.	MAX.
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	-	-	5.0	-
SUPPLY CURRENT FOR LOGIC	I _{DD}	V _{DD} =5V	-	2.0	3.0
INPUT VOLTAGE	HIGH	V _{IH}	-	2.2	4.7
	LOW	V _{IL}	-	0	0.6
OUTPUT VOLTAGE	HIGH	V _{OH}	I _{OH} = -0.205mA	2.4	-
	LOW	V _{OL}	I _{OL} = 1.6ma	-	0.4
*LED BACKLIGHT	VOLTAGE	V _f	-	4.2	4.6
	CURRENT	I _f	-	210	-
	POWER CONSUMPTION	PD	-	882	-
	LUMINOUS	L	I _f =210mA	70	-
	COLOR	-	-	-	-

*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	T _a =25°C	4.7	5.3	V
SUPPLY VOLTAGE FOR LCD DRIVE	V _{DD} -V _O	-	4.2@50°C	4.8@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

*UNLESS OTHERWISE SPECIFIED TOLERANCE IS ±0.25mm (±0.010")

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