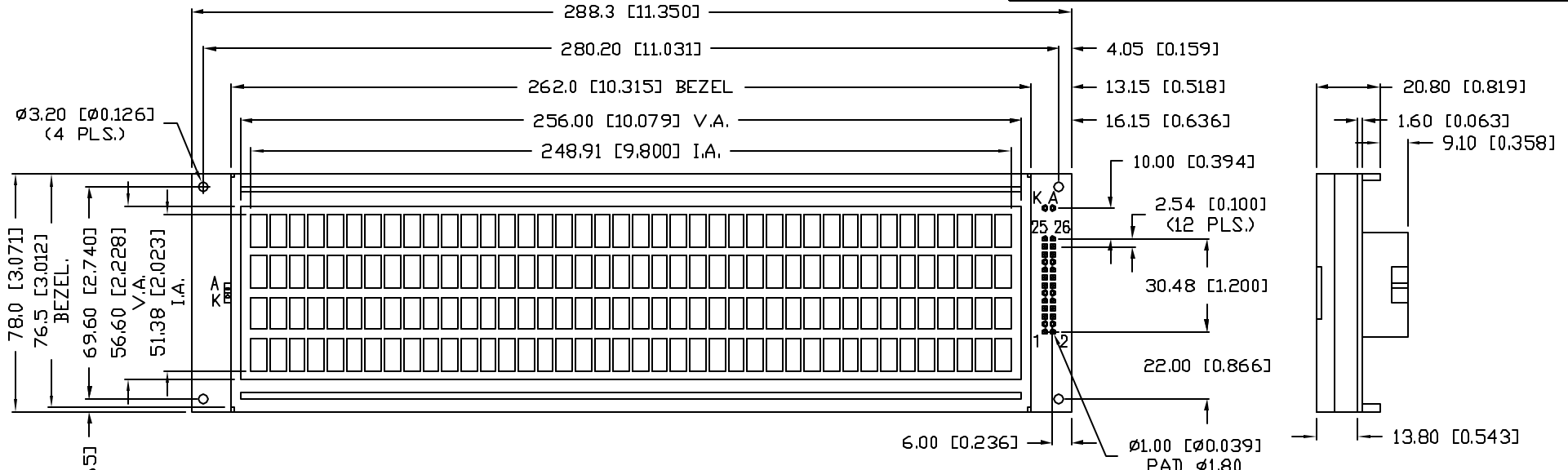
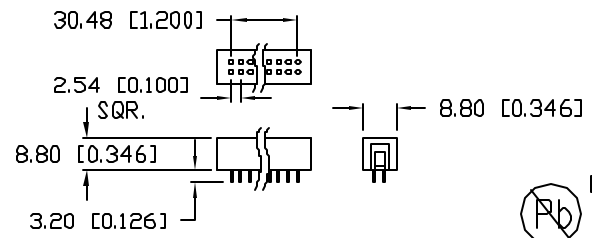


UNCONTROLLED DOCUMENT

PART NUMBER		REV.
LCM-H04004DSF/D12T		A
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11148.	4.19.07



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



UNCONTROLLED DOCUMENT

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.030), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±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
A	LCM-H04004DSF/D12T
10.52mm CHARACTER HEIGHT, 40 x 4 LCD MODULE, STN, WIDE TEMPERATURE, 12:00 VIEW, TRANSFLECTIVE,	

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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.

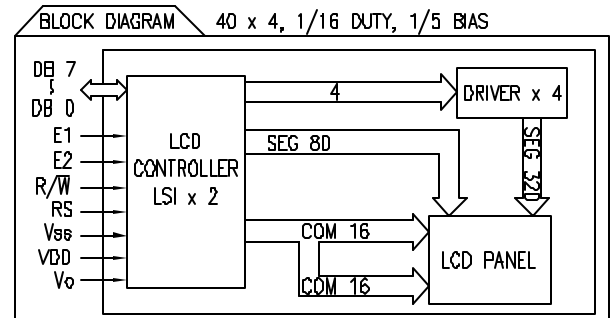
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JC			4.24.03
		PAGE:	1 OF 2
		SCALE:	N/A

PART NUMBER		REV.
LCM-H04004DSF/D12T		A
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	SEE PAGE #1	

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
			MIN	MAX	
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	T _A =25°C	-0.3	7.0	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-H	-20	70	°C
STORAGE TEMPERATURE	T _{stg}	LCM-H	-30	85	°C

PIN NO.	SYMBOL	LEVEL	FUNCTION
1	A	-	BACKLIGHT ANODE
2	K	-	BACKLIGHT CATHODE
3	E2	-	ENABLE 2
4	V _O	-	CONTRAST ADJUSTMENT
5	R/W	H/L	H: DATA READ L: DATA WRITE
6	N/C	-	NO CONNECTION
7	RS	-	REGISTER SELECT
8	V _{SS}	-	GROUND
9	E1	-	ENABLE 1
10	V _{SS}	-	GROUND
11	DB0	-	DATA BIT
12	V _{SS}	-	GROUND
13	DB1	-	DATA BIT
14	V _{SS}	-	GROUND
15	DB2	-	DATA BIT
16	V _{SS}	-	GROUND
17	DB3	-	DATA BIT
18	V _{SS}	-	GROUND
19	DB4	-	DATA BIT
20	V _{SS}	-	GROUND
21	DB5	-	DATA BIT
22	V _{DD}	-	+5VDC- PARALLEL WITH PIN 24
23	DB6	-	DATA BIT
24	V _{DD}	-	+5VDC- PARALLEL WITH PIN 22
25	DB7	-	DATA BIT
26	N/C	-	NO CONNECTION



ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	-	4.5	5.0	5.5	V
SUPPLY CURRENT FOR LOGIC	I _{DD}	V _{DD} =5V	-	6.0	10.0	mA
INPUT VOLTAGE	HIGH	V _{IH}	-	2.2	-	V _{DD}
	LOW	V _{IL}	-	0	-	0.6
OUTPUT VOLTAGE	HIGH	V _{OH}	-	2.4	-	-
	LOW	V _{OL}	-	-	-	0.4
*LED	VOLTAGE	V _f	I _f =780mA	-	4.2	4.6
	CURRENT	I _f	-	-	780	1020
BACKLIGHT	POWER CONSUMPTION	PD	-	-	3.3	5
	LUMINOUS	L	I _f =780mA	80	120	-
	COLOR	-	-	-	-	-

*ONLY APPLIES TO MODULES WITH BACKLIGHT

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +0.000 -0.000 DEGREE PRECISION MAX= +0.000 -0.000 DEGREE PRECISION

REV.	PART NUMBER
A	LCM-H04004DSF/D12T

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JC			4.24.03
			PAGE: 2 OF 2
			SCALE: N/A

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Components Supply Platform

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