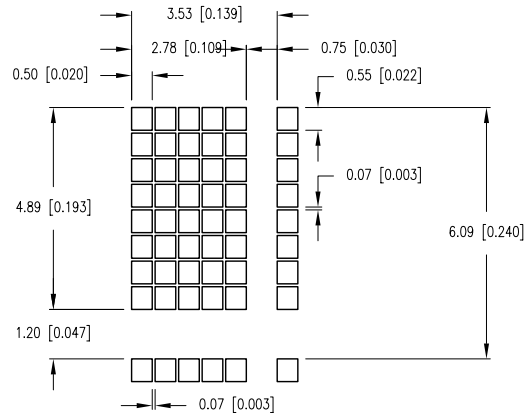


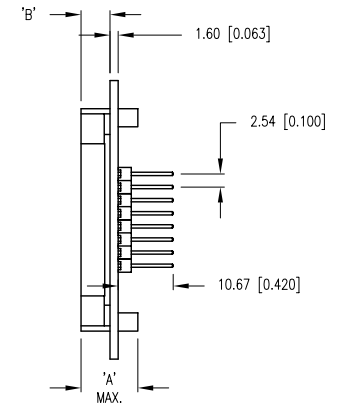
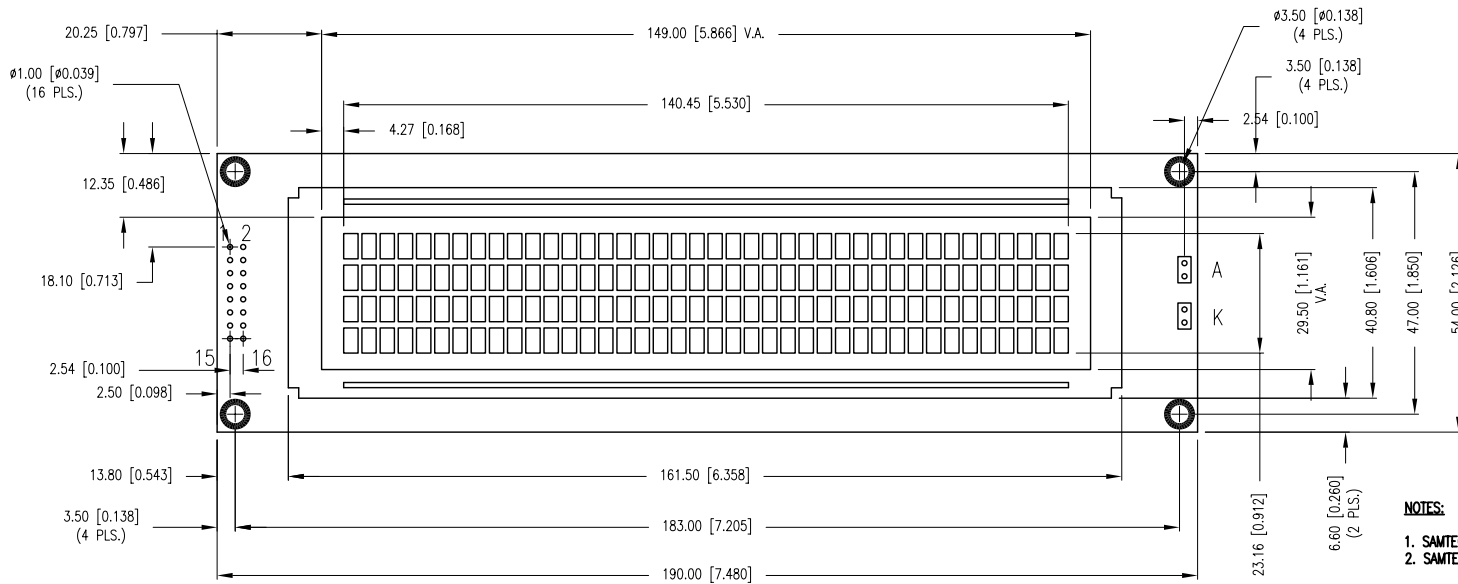
PART NUMBER	LCM-H04004DSF40013	REV.	A
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
02.29.12	E.C.N. #10BRDR. & REDRAWN.		A

CHARACTER DETAIL



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

TYPE	DIM.	A	B
WITH BACKLIGHT		14.5	9.3
NO BACKLIGHT		10	4.9



- NOTES:
- SAMTEC TSW-108-14-T-D OR EQUIVALENT
 - SAMTEC TSW-102-14-T-S OR EQUIVALENT

*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 -DECIMAL PRECISION



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5x8 DOT MATRIX, STN YELLOW, WIDE OPER TEMP, PIN DEADERS, 40x4 LCD CHAR MODULE, 1/16 DUTY, 1/5 BIAS.

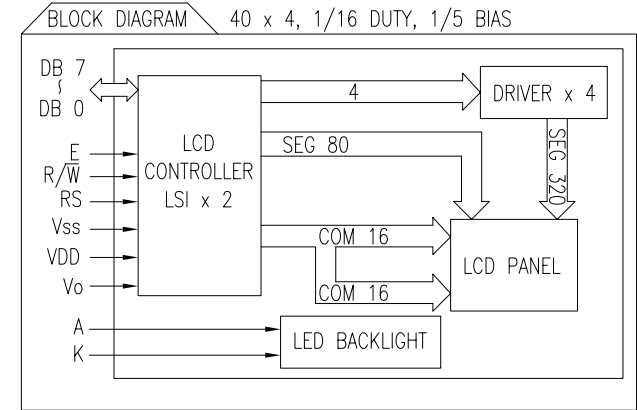
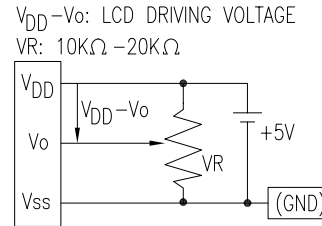
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DATE:	02.29.12	DRAWN BY:	AB
PAGE:	1 OF 2	CHKD BY:	JD
SCALE:	NTS	APRVD BY:	JD
UNIT:	mm [INCH]		

PART NUMBER	LCM-H04004DSF40013	REV.	A
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
02.29.12	E.C.N. #10BRDR. & REDRAWN.		A

PIN CONFIGURATION				
PIN NO.	SYMBOL	LEVEL	FUNCTION	
1~8	DB7~DB0	H/L	DATA BUS—SOFTWARE SELECTABLE 4 OR 8 BIT MODE.	
9	E1	H,H->L	ENABLE 1	
10	R/W	H/L	H: DATA READ (MODULE-->MPU) L: DATA WRITE (MODULE<--MPU)	
11	RS	H/L	REGISTER SELECT SIGNAL H: DATA INPUT L: INSTRUCTION INPUT	
12	Vo	-	POWER SUPPLY FOR LCD DRIVE	
13	Vss	-		GND (0V)
14	VDD	-		5V
15	E2	H,H->L	ENABLE 2	
16	-	-	NO CONNECTION	
	A	-	ANODE FOR BACKLIGHT	
	K	-	CATHODE FOR BACKLIGHT	



ELECTRICAL CHARACTERISTICS		$V_{DD}=4.7V$ to $5.3V$, $T_A=25^{\circ}C$				
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
SUPPLY VOLTAGE FOR LOGIC	$V_{DD}-V_{SS}$	-	-	5.0	-	V
SUPPLY CURRENT FOR LOGIC	I_{DD}	$V_{DD}=5V$	-	4.0	10.0	mA
INPUT VOLTAGE	HIGH	V_{IH}	-	2.2	-	V_{DD} V
	LOW	V_{IL}	-	0	-	0.6 V
OUTPUT VOLTAGE	HIGH	V_{OH}	-	2.4	-	V
	LOW	V_{OL}	-	-	0.4	V
*LED BACKLIGHT	VOLTAGE	V_f	-	4.2	4.6	V
	CURRENT	I_f	-	500	-	mA
	POWER CONSUMPTION	PD	-	2100	-	mW
	LUMINOUS	L	$I_f=500mA$	70	-	cd/m ²
	COLOR	-	-	-	-	nm

*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT	
			MIN	MAX		
SUPPLY VOLTAGE FOR LOGIC	$V_{DD}-V_{SS}$	$T_a=25^{\circ}C$	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	$T_a=25^{\circ}C$	V_{SS}	V_{DD}	V	
		OPERATING TEMPERATURE	T_{opr}	LCM-S	0	50
			LCM-H	-20	70	°C
STORAGE TEMPERATURE	T_{stg}	LCM-S	-20	70	°C	
		LCM-H	-30	85	°C	

*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= ^{+DECIMAL PRECISION} -0.00

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