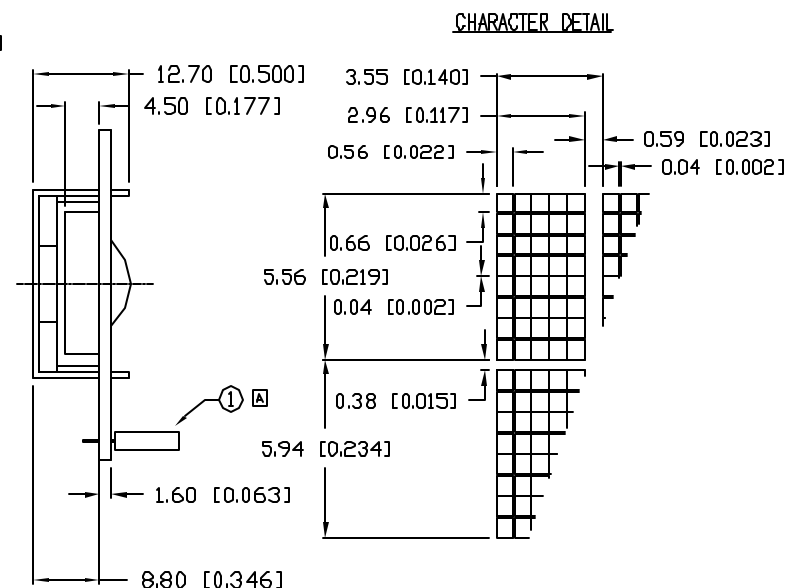
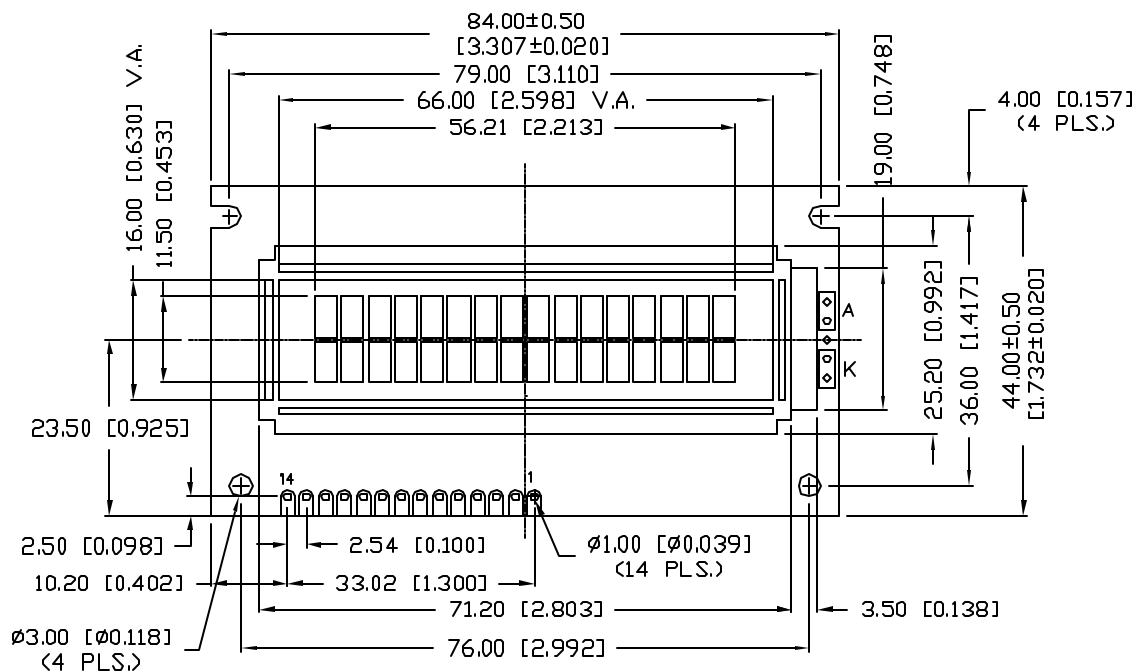


UNCONTROLLED DOCUMENT

PART NUMBER
LCM-S01602DWF/BULREV.
AREV. E.C.N. NUMBER AND REVISION COMMENTS
A E.C.N. #11327.DATE
5.8.06

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

NOTES:

1. SAMPTEC SSW-114-01-F-S OR EQUIVALENT

UNCONTROLLED DOCUMENT

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

REV.
APART NUMBER
LCM-S01602DWF/BUL

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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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APPROVED BY:

DATE: 5.8.06

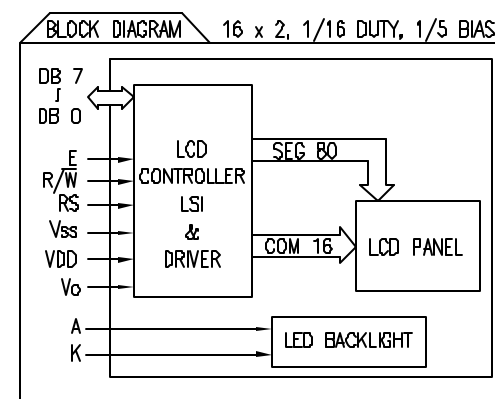
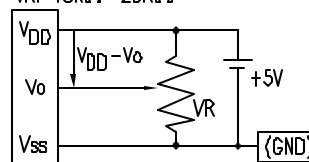
PAGE: 1 OF 2

SCALE: N/A

16 x 2 CHARACTERS LCD MODULE,
FSTN, TRANSLUCTIVE, ONE CHIP BLUE LED BACKLIGHT,
1/16 DUTY, 1/5 BIAS.

PIN CONFIGURATION			
PIN NO.	SYMBOL	LEVEL	FUNCTION
1	V _{SS}	-	POWER SUPPLY
2	V _{DD}	-	
3	V _O	-	
4	RS	H/L	REGISTER SELECT SIGNAL H: DATA INPUT L: INSTRUCTION INPUT
5	R/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.
	A	-	ANODE LED BACKLIGHT
	K	-	CATHODE LED BACKLIGHT

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



J3= SHORT
R9=100ohms

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}	—	—	5.0	—	V
SUPPLY CURRENT FOR LOGIC			I _{DD}	V _{DD} =5V	—	2.0	3.0	mA
INPUT VOLTAGE	HIGH		V _{IH}	—	2.2	—	4.7	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	I _f =20mA	3.3	3.4	3.5	V
	CURRENT		I _f	—	10	20	25	mA
	POWER CONSUMPTION		P _D	I _f =20mA	—	53	—	mW
	COLOR		—	BLUE	—	—	—	nm

*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

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REV.
A

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PAGE: 2 OF 2

SCALE: N/A

CT

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FSTN, TRANSLUCTIVE, ONE CHIP BLUE LED BACKLIGHT,
1/16 DUTY, 1/5 BIAS.