

UNCONTROLLED DOCUMENT

PART NUMBER

REV.

LCM-H01602DSN/PWL

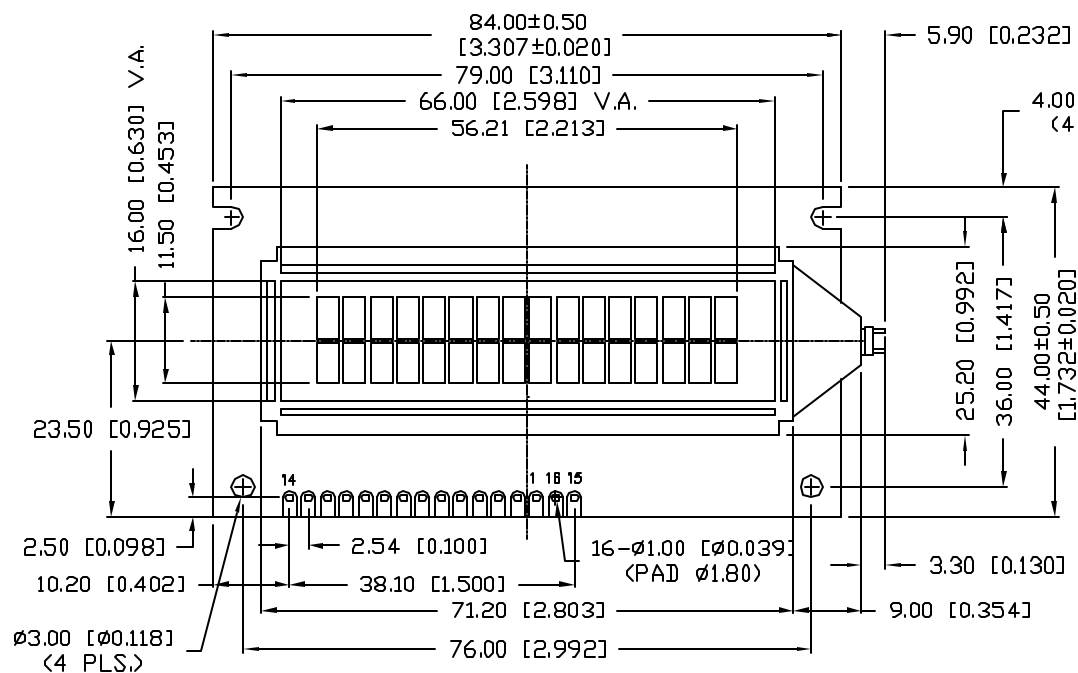
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REV.	E.C.N. NUMBER AND REVISION COMMENTS
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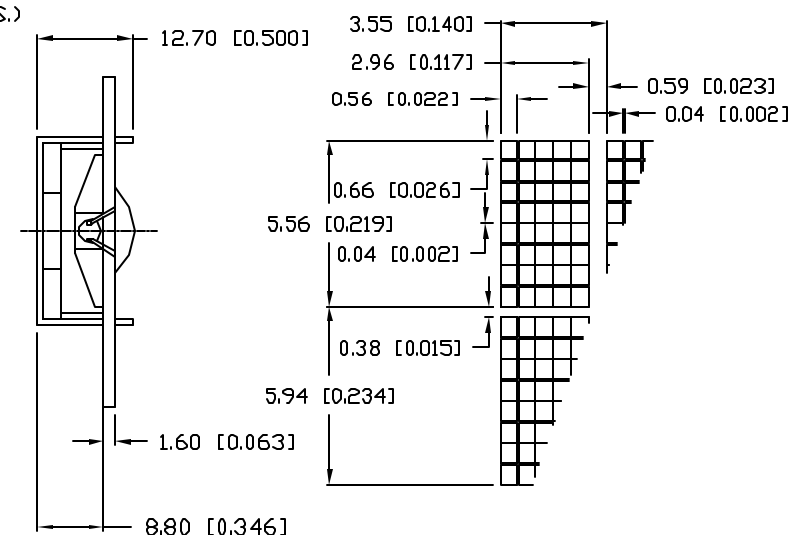
DATE _____

A	E.C.N. #11148.
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4.18.07



CHARACTER DETAIL



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

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*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.=+0.00 [±0.000] DECIMAL PRECISION MAX.=+0.00 [±0.000] DECIMAL PRECISION

REV.

PART NUMBER

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LCM-H01602DSN/PWL

16 x 2 CHARACTERS LCD MODULE,
STN, TRANSMISSIVE, NEGATIVE IMAGE,
ONE CHIP WHITE LED BACKLIGHT, WIDE OPERATING TEMP.

CONFIDENTIAL INFORMATION

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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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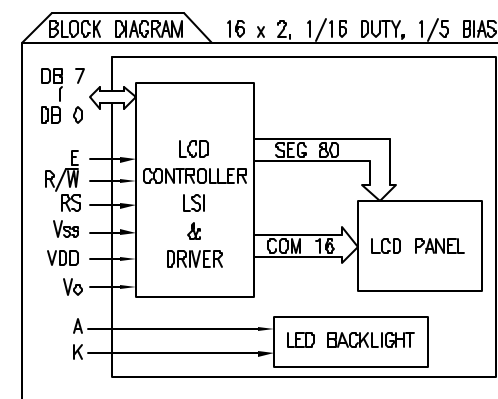
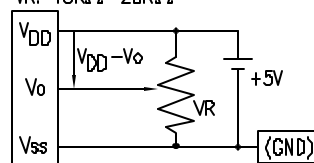
JC

PAGE: 1 OF 2

SCALE: N/A

PIN CONFIGURATION			
PIN NO.	SYMBOL	LEVEL	FUNCTION
1	V _{SS}	-	POWER SUPPLY GND (DV) 5V FOR LCD DRIVE
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.
15	A	-	ANODE LED BACKLIGHT
16	K	-	CATHODE LED BACKLIGHT

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



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 =15mA	3.4	3.5	3.6	V
	CURRENT		I _f	-	10	15	20	mA
	POWER CONSUMPTION		P _D	I _f =15mA	-	53	-	mW
	COLOR		-	WHITE	-	-	-	nm

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-H	-20	70	°C
STORAGE TEMPERATURE	T _{stg}	LCM-H	-30	85	°C

*ONLY APPLIES TO MODULES WITH BACKLIGHT

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