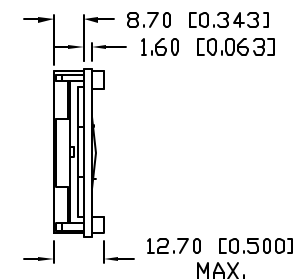
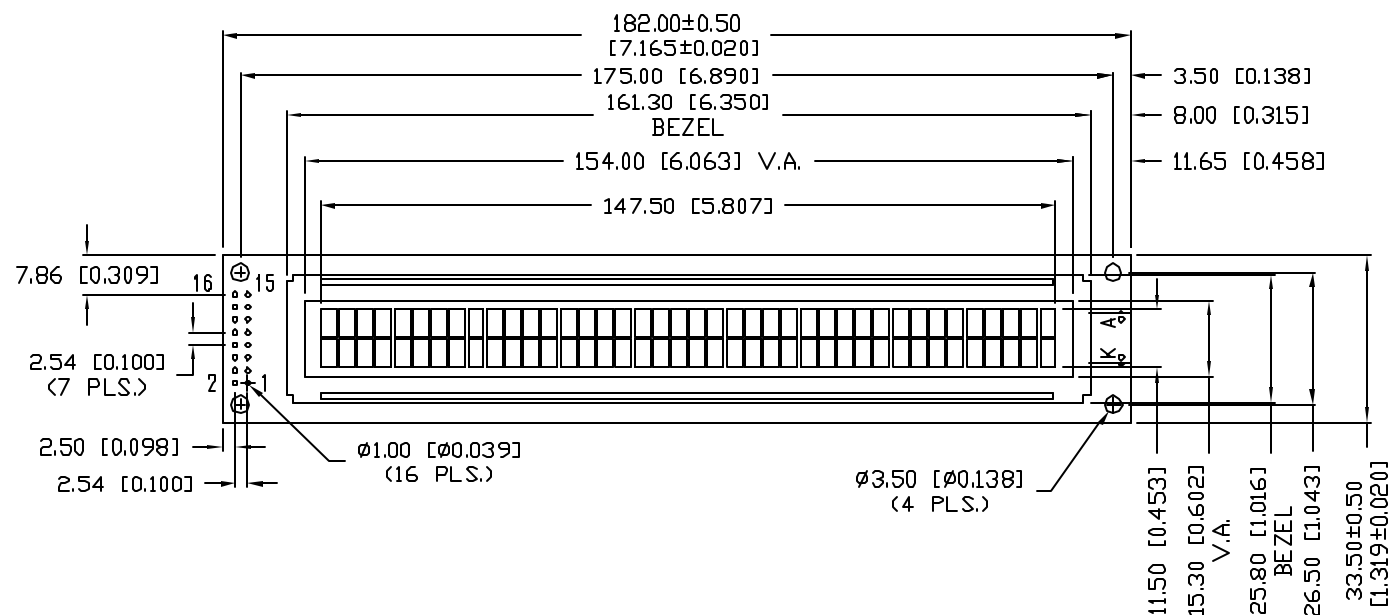
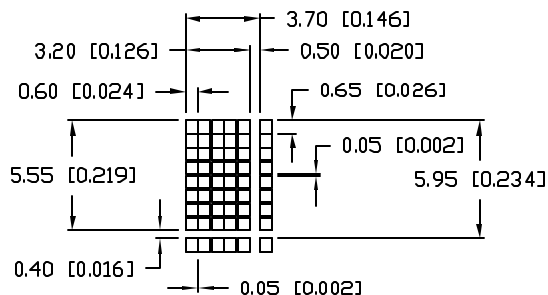


CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

CHARACTER DETAIL



*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 MAX.=+0.00 -DECIMAL PRECISION

REV.

PART NUMBER

LCM-H04002DWN

5 x 8 DOT MATRIX 40 x 2 LCD CHARACTER MODULE,
5.55mm CHARACTER HEIGHT, 1/16 DUTY, 1/5 BIAS,
FSTN BLACK, NEGATIVE IMAGE YELLOW-GREEN LED, 6:00 VIEW

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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PAGE: 1 OF 2

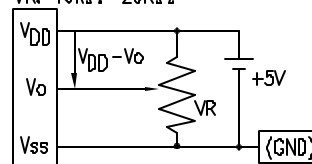
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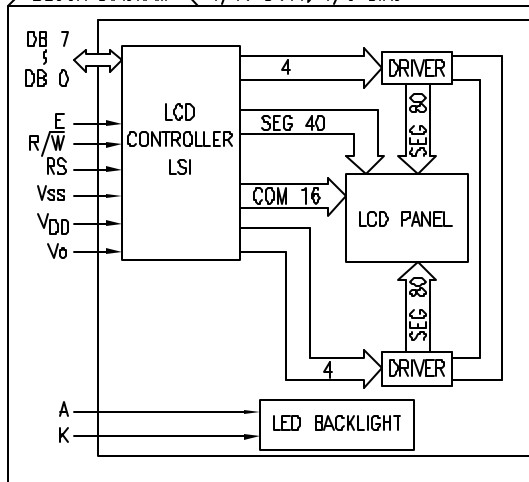
PIN CONFIGURATION

PIN NO.	SYMBOL	LEVEL	FUNCTION
1	Vss	—	POWER SUPPLY
2	VDD	—	
3	Vo	—	
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
16	K	—	CATHODE

VDD-Vo: LCD DRIVING VOLTAGE
VR: 10KΩ-20KΩ



BLOCK DIAGRAM 1/16 DUTY, 1/5 BIAS



ELECTRICAL CHARACTERISTICS

VDD=4.7V to 5.3V, TA=25°C

ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
SUPPLY VOLTAGE FOR LOGIC	VDD-Vss	—	—	5.0	—	V
SUPPLY CURRENT FOR LOGIC	IDD	VDD=5V	—	2.0	3.0	mA
INPUT VOLTAGE	HIGH LOW	VIH	—	2.2	—	VDD
		VIL	—	0	—	0.6
OUTPUT VOLTAGE	HIGH LOW	VOH	—	2.4	—	V
		VOL	—	—	—	0.4
LED BACKLIGHT	VOLTAGE	Vf	—	4.2	4.6	V
	CURRENT	If	—	210	—	mA
	POWER CONSUMPTION	PD	—	882	—	mW
	LUMINOUS	L	If=210mA	70	—	cd/m ²
	COLOR	—	—	565	—	nm

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
			MIN	MAX	
SUPPLY VOLTAGE FOR LOGIC	VDD-Vss	Ta=25°C	4.7	5.3	V
SUPPLY VOLTAGE FOR LCD DRIVE	VDD-Vo	—	4.2@50°C	4.8@0°C	V
INPUT VOLTAGE	Vi	Ta=25°C	Vss	VDD	V
OPERATING TEMPERATURE	Topr	LCM-H	-20	70	°C
STORAGE TEMPERATURE	Tstg	LCM-H	-30	85	°C

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REV.

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SCALE: N/A

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