UNCONTROLLED DOCUMENT

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

P/N PREFIX/SUFFIX TABLE

LCM-X		DXX	DESCRIPTION
STANDARD	S	SR	STN, REFLECTIVE
		SF	STN, TRANSFLECTIVE(W/ BACKLIGHT)
HIGH TEMP.	H	TR	TN, REFLECTIVE
		TF	TN, TRANSFLECTIVE(W/ BACKLIGHT)

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

CHARACTER DETAIL

3.70 [0.146]
3.20 [0.126]
0.50 [0.020]
0.60 [0.024]
0.65 [0.026]
5.55 [0.219]
0.05 [0.002]
5.95 [0.234]
0.40 [0.016]
0.05 [0.002]
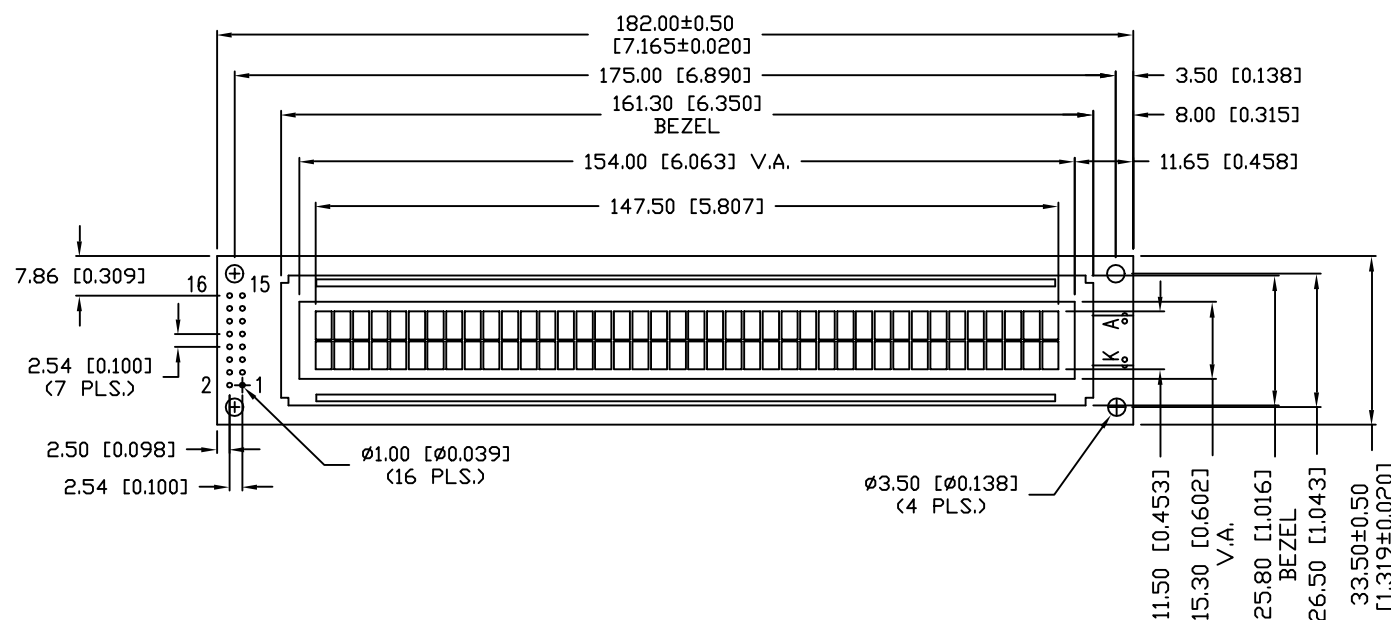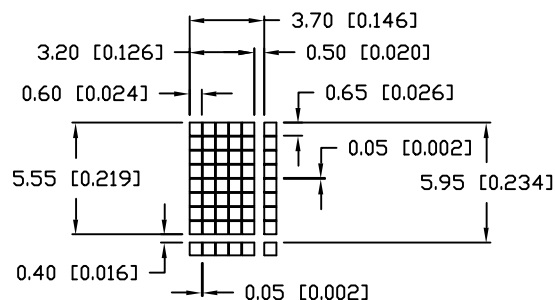
TYPE DIM.	A	B
WITH BACKLIGHT	12.7	8.7
NO BACKLIGHT	8.8	4.7

182.00±0.50 [7.165±0.020]
175.00 [6.890]
161.30 [6.350] BEZEL
154.00 [6.063] V.A.
147.50 [5.807]
3.50 [0.138]
8.00 [0.315]
11.65 [0.458]
7.86 [0.309]
16 15
2.54 [0.100] (7 PLS.)
2 1
2.50 [0.098]
2.54 [0.100]
Ø1.00 [Ø0.039] (16 PLS.)
Ø3.50 [Ø0.138] (4 PLS.)

11.50 [0.453]
15.30 [0.602] V.A.
25.80 [1.016] BEZEL
26.50 [1.043]
33.50±0.50 [1.319±0.020]

'B'
1.60 [0.063]
'A' MAX.

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*UNLESS OTHERWISE SPECIFIED TOLERANCE IS ±0.25mm (±0.010")

PIN CONFIGURATION

PIN NO.	SYMBOL	LEVEL	FUNCTION	
1	Vss	–	POWER SUPPLY	GND (0V)
2	V_{DD}	–		5V
3	Vo	–		FOR LCD DRIVE
4	RS	H/L	REGISTER SELECT SIGNAL H: DATA INPUT L: INSTRUCTION INPUT	
5	R/$\overline{W}$	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}−Vo: LCD DRIVING VOLTAGE
VR: 10KΩ−20KΩ
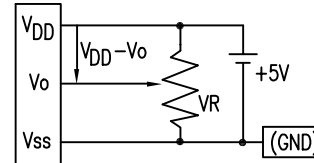
BLOCK DIAGRAM   1/16 DUTY, 1/5 BIAS
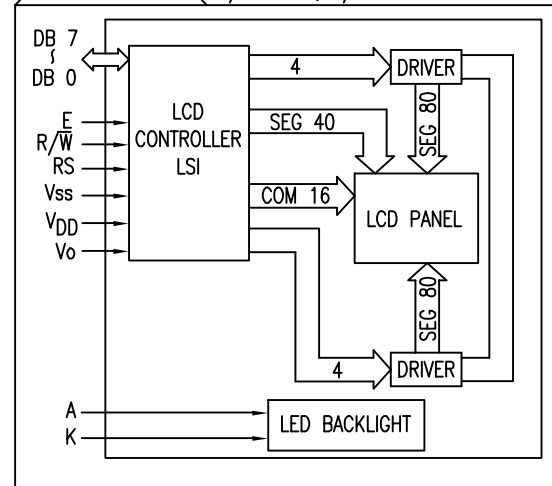
ELECTRICAL CHARACTERISTICS V_{DD}=4.7V to 5.3V, T_A=25°C

ITEM		SYMBOL	CONDITION	STANDARD VALUE			UNIT
				MIN.	TYP.	MAX.	
SUPPLY VOLTAGE FOR LOGIC		V_{DD}−Vss	–	–	5.0	–	V
SUPPLY CURRENT FOR LOGIC		I_{DD}	V_{DD}=5V	–	2.0	3.0	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	Vf	–	–	4.2	4.6	V
	CURRENT	If	–	–	210	–	mA
	POWER CUNSUMPTION	PD	–	–	882	–	mW
	LUMINOUS	L	If=210mA	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}−Vss	Ta=25°C	4.7	5.3	V
SUPPLY VOLTAGE FOR LCD DRIVE	V_{DD}−Vo	–	4.2@50°C	4.8@0°C	V
INPUT VOLTAGE	V_I	Ta=25°C	Vss	V_{DD}	V
OPERATING TEMPERATURE	Topr	LCM-S	0	50	°C
		LCM-H	−20	70	°C
STORAGE TEMPERATURE	Tstg	LCM-S	−20	70	°C
		LCM-H	−30	85	°C

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*UNLESS OTHERWISE SPECIFIED TOLERANCE IS ±0.25mm (±0.010")

5.55mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX, 40 x 2 LCD CHARACTER MODULE, 1/16 DUTY, 1/5 BIAS.

DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE: 9−30−98
SA/BC			PAGE: 2 OF 2
			SCALE: N/A

Mouser Electronics

Authorized Distributor

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