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**LMC-SS(F)C20402**    20 CHARS 4 LINES    1/16 DUTY    1/4 BIAS

1. FEATURE

LCD TYPE	STN/FSTN
BACKLIGHT TYPE	LED BACKLIGHT
CHARACTER FONTS	5 8 DOTS (WITH CURSOR)
CONTROLLER	SPLC780 OR EQUIVALENT
POWER SUPPLY FOR LCM	DC +5V
LED BACKLIGHT INPUT	DC +5V
EL BACKLIGHT INPUT	
EL- INVERTER	

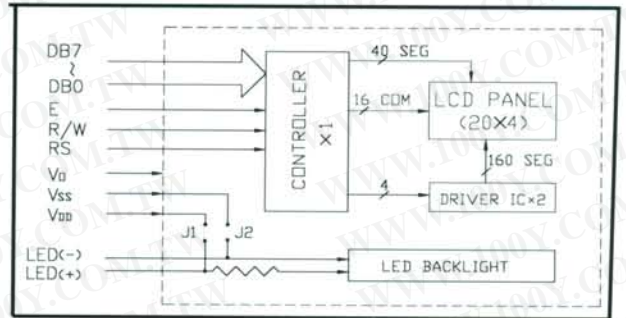
2. ELECTRICAL CHARACTERISTICS

ITEM	SYM	CONDITION	MIN	TYP	MAX	UNIT
SUPPLY VOLTAGE FOR LCD	V <sub>DD-V<sub>o</sub></sub>	Ta=0	-	4.6	-	V
		Ta=25	-	4.4	-	V
		Ta=50	-	4.2	-	V
INPUT VOLTAGE	V <sub>I</sub>	-	4.5	5.0	5.5	V
INPUT HIGH VOL	V <sub>HI</sub>	-	2.2	-	V <sub>DD</sub>	V
INPUT LOW VOL	V <sub>LI</sub>	-	0	-	0.6	V
OUTPUT HIGH VOL	V <sub>OH</sub>	-	2.4	-	-	V
OUTPUT LOW VOL	V <sub>OL</sub>	-	-	-	0.4	V
SUPPLY CURRENT	I <sub>DD</sub>	V <sub>DD</sub> =5V	-	4.5	6.0	mA
LED CURRENT	I <sub>F</sub>	Ta=25	-	240	-	mA
LED DISSIPATION	P <sub>D</sub>	Ta=25	-	1200	-	mW

3. ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
OPERATING TEMP.	T <sub>OP</sub>	0	-	50	
STORAGE TEMP.	T <sub>ST</sub>	-10	-	60	
INPUT VOLTAGE	V <sub>I</sub>	V <sub>SS</sub>	-	V <sub>DD</sub>	V
SUPPLY VOL-LOGIC	V <sub>DD-V<sub>SS</sub></sub>	-	5.0	6.5	V
SUPPLY VOL-LCD	V <sub>DD-V<sub>o</sub></sub>	-	-	6.5	V

4. BLOCK DIAGRAM



5. INTERFACE PIN CONNECTIONS

NO	SYM	LEVEL	FUNCTION	NO	SYM	LEVEL	FUNCTION
1	V <sub>SS</sub>	-	0V	9	DB <sub>2</sub>	H/L	DATA BIT <sub>2</sub>
2	V <sub>DD</sub>	-	5V	10	DB <sub>3</sub>	H/L	DATA BIT <sub>3</sub>
3	V <sub>o</sub>	-	CONTRAST ADJ	11	DB <sub>4</sub>	H/L	DATA BIT <sub>4</sub>
4	RS	H/L	REGISTER SELECT	12	DB <sub>5</sub>	H/L	DATA BIT <sub>5</sub>
5	R/W	H/L	READ/WRITE	13	DB <sub>6</sub>	H/L	DATA BIT <sub>6</sub>
6	E	H <sub>H</sub> →L	ENABLE SIGNAL	14	DB <sub>7</sub>	H/L	DATA BIT <sub>7</sub>
7	DB <sub>0</sub>	H/L	DATA BIT <sub>0</sub>	15	A(+)	+5V	BACKLIGHT
8	DB <sub>1</sub>	H/L	DATA BIT <sub>1</sub>	16	K(-)	0V	BACKLIGHT

6. DISPLAY CHARACTER ADDRESS CODE

L1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

L2

80	81	82	83	84	85	86	87	88	89	8A	8B	8C	8D	8E	8F	90	91	92	93
C0	C1	C2	C3	C4	C5	C6	C7	C8	C9	CA	CB	CC	CD	CE	CF	D0	D1	D2	D3

L3

L4

94	95	96	97	98	99	9A	9B	9C	9D	9E	9F	A0	A1	A2	A3	A4	A5	A6	A7
D4	D5	D6	D7	D8	D9	DA	DB	DC	DD	DE	DF	E0	E1	E2	E3	E4	E5	E6	E7

7. DIMENSIONAL DRAWING

