

LMC-S20402

20 Char X 4 Line

1/16 Duty

1/4 Bias

FEATURE

LCD TYPE	STN , FSTN	
LCM CONTROLLER IC	SPLC780 or Equivalent	
CHARACTER FONTS	5X8 Dots (With Cursor)	
LCM BACKLIGHT TYPE	LED	
POWER SUPPLY FOR LCM	DC +5V	
LED BACKLIGHT INPUT	DC +5V	
LCM DIMENSION	118.0 (W) X 43.0 (H)	mm
LCM VIEWING	76.0 (W) X 25.0 (H)	mm
ACTIVE DISPLAY AREA	70.4 (W) X 20.8 (H)	mm
CHARACTER SIZE	2.95 (W) X 4.75 (H)	mm
CHARACTER PITCH	3.55 (W) X 5.35 (H)	mm
LCD DOT SIZE	0.55 (W) X 0.55 (H)	mm
LCD DOT PITCH	0.60 (W) X 0.60 (H)	mm

ABSOLUTE MAXIMUM RATINGS

ITEM	SYM.	MIN.	TYP.	MAX.	UNIT
OPERATING TEMP.	T _{OP}	0	--	+50	°C
STORAGE TEMP.	T _{SP}	-10	--	+60	°C
INPUT VOLTAGE	V _I	V _{SS}	--	V _{DD}	V
SUPPLY VOL. FOR LCD	V _{DD} -V _O	--	--	6.5	V

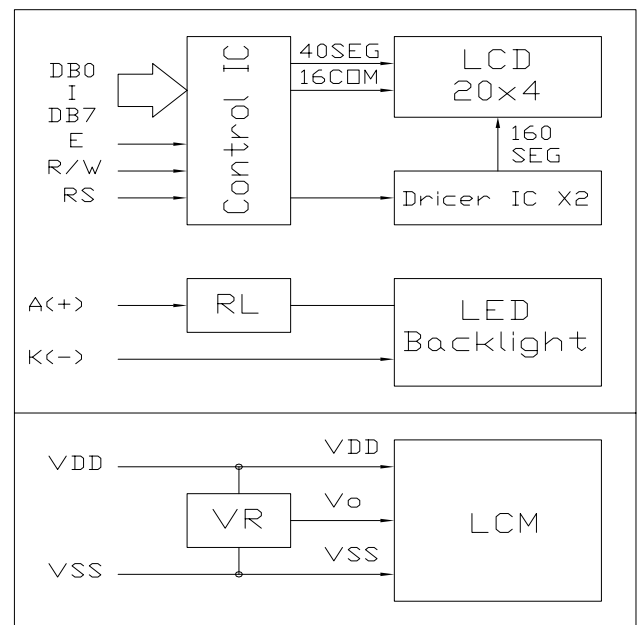
INTERFACE PIN CONNECTIONS

NO.	SYM.	LEVEL	FUNCTION
1	VSS	--	GND (0V)
2	VDD	--	DC +5V
3	Vo	--	Contrast Adjust
4	RS	H/L	Register select
5	R/W	H/L	Read/Write
6	E	H,H→L	Enable signal
7	DB0	H/L	Data Bit 0
8	DB1	H/L	Data Bit 1
9	DB2	H/L	Data Bit 2
10	DB3	H/L	Data Bit 3
11	DB4	H/L	Data Bit 4
12	DB5	H/L	Data Bit 5
13	DB6	H/L	Data Bit 6
14	DB7	H/L	Data Bit 7
15	A(+)	DC+5V	LED Backlight +
16	K(-)	0V	LED Backlight -

ELECTRICAL

ITEM	SYM.	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage For LCD Driver	V _{DD} -V _O	Ta=0°C	--	4.6	--	V
		Ta=25°C	--	4.3	--	V
		Ta=50°C	--	4.0	--	V
Operating Voltage For LCD Module	V _{DD} -V _{SS}	--	4.5	5.0	5.5	V
Input High Voltage	V _{IH}	--	2.2	--	V _{DD}	V
Input Low Voltage	V _{IL}	--	0	--	0.6	V
Output High Voltage	V _{OH}	--	2.4	--	--	V
Output Low Voltage	V _{OL}	--	--	--	0.4	V
Supply Current For Logic	I _{DD}	V _{DD} =5V	--	4.0	5.5	mA
LED Current	I _F	Ta=25°C	--	65/260	--	mA

BLOCK DIAGRAM



DIMENSIONAL DRAWING

