

LMC-B1A16

16 Char X 1 Line

1/16 Duty

1/4 Bias

FEATURE	
LCD TYPE	TN , STN
LCM CONTROLLER IC	SPLC780 or Equivalent
CHARACTER FONTS	5X7 Dots + Cursor
LCM BACKLIGHT TYPE	LED
POWER SUPPLY FOR LCM	DC +5V
LED BACKLIGHT INPUT	DC +5V
LCM DIMENSION	122.0 (W) X 33.0 (H) mm
LCM VIEWING	99.0 (W) X 13.0 (H) mm
ACTIVE DISPLAY AREA	94.85 (W) X 9.66 (H) mm
CHARACTER SIZE	4.85 (W) X 9.66 (H) mm
CHARACTER PITCH	6.00 (W) X 9.66 (H) mm
LCD DOT SIZE	0.93 (W) X 1.11 (H) mm
LCD DOT PITCH	0.98 (W) X 1.16 (H) mm

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	--	
		Ta=50°C	--	4.0	--	
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}	$V_{DD}=5V$	--	2.0	3.5	mA
LED Current	I_F	Ta=25°C	--	170	--	mA

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	V_o	--	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 -

