

LMC-S4A40	40 Char X 4 Line	1/16 Duty	1/4 Bias
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FEATURE		
LCD TYPE	STN , FSTN	
LCM CONTROLLER IC	SPLC780 or Equivalent	
CHARACTER FONTS	5X8 Dots (With Cursor)	
LCM BACKLIGHT TYPE	LED , CCFL	
POWER SUPPLY FOR LCM	DC +5V	
LED BACKLIGHT INPUT	DC +5V	
FL INVERTER	FL001-5A / FL001-12A	
LCM DIMENSION	190.0 (W) X 54.0 (H)	mm
LCM VIEWING	147.0 (W) X 29.5 (H)	mm
ACTIVE DISPLAY AREA	140.74 (W) X 23.18 (H)	mm
CHARACTER SIZE	2.80 (W) X 4.91 (H)	mm
CHARACTER PITCH	3.53 (W) X 6.09 (H)	mm
LCD DOT SIZE	0.52 (W) X 0.57 (H)	mm
LCD DOT PITCH	0.57 (W) X 0.63 (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	DB7	H/L	Data Bit 7
2	DB6	H/L	Data Bit 6
3	DB5	H/L	Data Bit 5
4	DB4	H/L	Data Bit 4
5	DB3	H/L	Data Bit 3
6	DB2	H/L	Data Bit 2
7	DB1	H/L	Data Bit 1
8	DB0	H/L	Data Bit 0
9	R/W	H/L	Read/Write
10	E1	H,H→L	Line1 & Line2 Enable signal
11	RS	H/L	Register select
12	Vo	--	Contrast Adjust
13	VSS	--	GND (0V)
14	VDD	--	DC +5V
15	E2	H,H→L	Line3 & Line5 Enable signal
16	N.C	--	--
17	A(+)	DC+5V	LED Backlight +
18	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	--	
		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	--	7.0	8.5	mA
LED Current	I _F	Ta=25°C	--	78/360	--/600	mA

