

LMG-S1283203

128 Dots X 32 Dots

1/32 Duty

1/6 Bias

FEATURE	
LCD TYPE	STN , FSTN
LCM CONTROLLER IC	ST7920 or Equivalent
NUMBER OF CHARACTER	8 CHARACTERS X 2 LINES (128*32 Dots)
CHARACTER FORMAT	16X16 Dots
CHINESE CODE SYSTEM	BIG-5 or GB Code
LCM BACKLIGHT TYPE	LED
POWER SUPPLY FOR LCM	DC +5V
LED BACKLIGHT INPUT	DC +5V
LCM DIMENSION	59.0 (W) X 29.3 (H) mm
LCM VIEWING	52.0 (W) X 15.0 (H) mm
ACTIVE DISPLAY AREA	47.97 (W) X 11.97 (H) mm
LCD DOT SIZE	0.345 (W) X 0.345 (H) mm
LCD DOT PITCH	0.375 (W) X 0.375 (H) mm

ELECTRICAL						
ITEM	SYM.	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage For LCD Driver	V _{LCD}	Ta=0°C	--	6.0	--	V
		Ta=25°C	--	5.8	--	V
		Ta=50°C	--	5.5	--	V
Operating Voltage For LCD Module	V _{DD-VSS}	--	3.0	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	--	3.0	4.5	mA
LED Current	I _F	Ta=25°C	--	40	60	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 _{O-VSS}	--	3.0	4.0	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 -

