

LMG-S24D64	240 Dots X 64 Dots	1/32 Duty	1/6 Bias
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FEATURE		
LCD TYPE	STN , FSTN	
LCM CONTROLLER IC	ST7920 or Equivalent	
NUMBER OF CHARACTER	15 CHARACTERS X 4 LINES (240*64 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	180.0 (W) X 65.0 (H)	mm
LCM VIEWING	132.0 (W) X 39.0 (H)	mm
ACTIVE DISPLAY AREA	122.36 (W) X 32.60 (H)	mm
LCD DOT SIZE	0.47 (W) X 0.47 (H)	mm
LCD DOT PITCH	0.51 (W) X 0.51 (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

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	E1	H,H→L	Line1 & Line2 Enable signal
10	R/W	H/L	Read/Write
11	RS	H/L	Register select
12	N.C	--	--
13	VSS	--	GND (0V)
14	VDD	--	DC +5V
15	E2	H,H→L	Line3 & Line4 Enable signal
16	N.C	--	--
17	A(+)	DC+5V	LED Backlight +
18	K(-)	0V	LED Backlight -
19	A(+)	DC+5V	LED Backlight +
20	K(-)	0V	LED Backlight -

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	--	
		Ta=50°C	--	5.5	--	
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	--	130/400	--	mA

