

LMG-S12D64	128 Dots X 64 Dots	1/64 Duty	1/9 Bias
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FEATURE		
LCD TYPE	STN , FSTN	
LCM CONTROLLER IC	AX6108 or Equivalent	
LCM BACKLIGHT TYPE	LED	
POWER SUPPLY FOR LCM	DC +5V	
LED BACKLIGHT INPUT	DC +5V	
LCM DIMENSION	63.2 (W) X 54.2 (H)	mm
LCM VIEWING	55.0 (W) X 36.0 (H)	mm
ACTIVE DISPLAY AREA	49.88 (W) X 31.32 (H)	mm
LCD DOT SIZE	0.35 (W) X 0.45 (H)	mm
LCD DOT PITCH	0.39 (W) X 0.49 (H)	mm

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYM.	MIN.	TYP.	MAX.	UNIT
OPERATING TEMP.	T _{OP}	-20	--	+70	°C
STORAGE TEMP.	T _{ST}	-30	--	+80	°C
INPUT VOLTAGE	V _I	V _{SS}	--	V _{DD}	V
SUPPLY VOL. FOR LOGIC	V _{DD} -V _{SS}	--	5.0	6.5	V
SUPPLY VOL. FOR LCD	V _{DD} -V _O	--	9.0	12.0	V

INTERFACE PIN CONNECTIONS			
NO.	SYM.	LEVEL	FUNCTION
1	VSS	--	GND (0V)
2	VDD	--	DC +5V
3	Vo	--	Contrast Adjust
4	D/I	H/L	Data / Instruction code
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	CS1	H	Left Chip enable signal
16	CS2	H	Right Chip enable signal
17	/RST	L	Reset signal
18	VEE	--	Negative voltage output
19	A(+)	+5.0V	LED backlight +
20	K(-)	0V	LED backlight -

ELECTRICAL						
ITEM	SYM.	CONDITION	MIN.	TYP.	MAX	UNIT
Supply Voltage For Logic	V _{DD} -V _{SS}	Ta=25°C	4.5	5.0	5.5	V
Supply Voltage For LCD Driver	V _{LCD}	Ta=25°C	8.7	9.0	9.3	V
Input High Voltage	V _{IH}	--	2.2	--	V _{DD}	V
Input Low Voltage	V _{IL}	--	0	--	0.6	V
Supply Current For Logic	I _{DD}	V _{DD} =+5V	--	4.0	5.5	mA
LED Current	I _F	Ta=25°C	--	52/200	--	mA

