

DMG-S24D12

240 Dots X 128 Dots

1/128 Duty

1/12 Bias

FEATURE	
LCD TYPE	STN , FSTN
LCM CONTROLLER IC	LC7981 or Equivalent
LCM BACKLIGHT TYPE	LED , CCFL
POWER SUPPLY FOR LCM	DC +5V
LED BACKLIGHT INPUT	DC +5V
FL INVERTER	FL001-5A / FL001-12A
LCM DIMENSION	144.0 (W) X 104.0 (H) mm
LCM VIEWING	114.0 (W) x 61.0 (H) mm
ACTIVE DISPLAY AREA	105.56 (W) x 56.28 (H) mm
LCD DOT SIZE	0.40 (W) x 0.40 (H) mm
LCD DOT PITCH	0.44 (W) x 0.44 (H) mm

ELECTRICAL						
ITEM	SYM.	CONDITION	MIN.	TYP.	MAX	UNIT
Supply Voltage For Logic	V _{DD-VSS}	Ta=25°C	4.5	5.0	5.5	V
Supply Voltage For LCD Driver	V _{LCD}	Ta=25°C	12.7	13.0	13.3	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	--	7.0	10.0	mA
LED Current	I _F	Ta=25°C	--	156	--	mA

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-VSS}	--	5.0	6.5	V
SUPPLY VOL. FOR LCD	V _{DD-Vo}	--	13.0	17.0	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	/CS	L	Chip Enable signal
16	/RST	L	Reset signal
17	VEE	--	Negative voltage output
18	N.C	--	No used
19	A	+5.0V	LED backlight +
20	K	0V	LED backlight -

