

# DMG-S16G80

160 Dots X 80 Dots

1/80 Duty

1/10 Bias

FEATURE	
LCD TYPE	STN , FSTN
LCM CONTROLLER IC	RA8822 or Equivalent
NUMBER OF CHARACTER	10 CHARACTERS X 5 LINES (160*80 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	93.0 (W) X 70.0 (H) mm
LCM VIEWING	72.0 (W) X 39.0 (H) mm
ACTIVE DISPLAY AREA	67.17 (W) X 33.57 (H) mm
LCD DOT SIZE	0.39 (W) X 0.39 (H) mm
LCD DOT PITCH	0.42 (W) X 0.42 (H) mm

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYM.	MIN.	TYP.	MAX.	UNIT
OPERATING TEMP.	T <sub>OP</sub>	-20	--	+70	°C
STORAGE TEMP.	T <sub>ST</sub>	-30	--	+80	°C
INPUT VOLTAGE	V <sub>I</sub>	V <sub>SS</sub>		V <sub>DD</sub>	V
SUPPLY VOL. FOR LOGIC	V <sub>DD</sub> -V <sub>SS</sub>	--	5.0	6.5	V
SUPPLY VOL. FOR LCD	V <sub>DD</sub> -V <sub>O</sub>	--	12.0	17.0	V

INTERFACE PIN CONNECTIONS			
NO.	SYM.	LEVEL	FUNCTION
1	LED-A	--	LED-A (DC+5.0V)
2	VSS	--	GND(0V)
3	VDD	--	VDD(+5V)
4	VO	--	Contrast Adjust
5	/WR	L	DATA Write
6	/RD	L	DATA Read
7	A0	H/L	Data/Instruction code
8	/CS	L	CHIP select
9	VEE	--	Negative voltage output
10	/RES	L	Reset signal
11	DB0	H/L	Data Bit0
12	DB1	H/L	Data Bit1
13	DB2	H/L	Data Bit2
14	DB3	H/L	Data Bit3
15	DB4	H/L	Data Bit4
16	DB5	H/L	Data Bit5
17	DB6	H/L	Data Bit6
18	DB7	H/L	Data Bit7
19	BUSY	--	Busy Signal
20	INT	--	Interrupt Signal
21	LED-A	--	LED-A (DC+5.0V)
22	LED-K	--	LED-K (DC 0V)

ELECTRICAL						
ITEM	SYM.	CONDITION	MIN.	TYP.	MAX	UNIT
Supply Voltage For Logic	V <sub>DD</sub> -V <sub>SS</sub>	Ta=25°C	4.5	5.0	5.5	V
Supply Voltage For LCD Driver	V <sub>LCD</sub>	Ta=25°C	11.7	12.0	12.3	V
Input High Voltage	V <sub>IH</sub>	--	2.2	--	V <sub>DD</sub>	V
Input Low Voltage	V <sub>IL</sub>	--	0	--	0.6	V
Supply Current For Logic	I <sub>DD</sub>	V <sub>DD</sub> = +5V	--	5.0	6.5	mA
LED Current	I <sub>F</sub>	Ta=25°C	--	78/300	--	mA

