

DMG-S16E80

160 Dots X 80 Dots

1/80 Duty

1/10 Bias

FEATURE	
LCD TYPE	STN , FSTN
LCM CONTROLLER IC	LC7981 or Equivalent
LCM BACKLIGHT TYPE	LED
POWER SUPPLY FOR LCM	DC +5V
LED BACKLIGHT INPUT	DC +5V
LCM DIMENSION	100.0 (W) X 54.0 (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 _{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	5.5	V
SUPPLY VOL. FOR LCD	V _{DD} -V _O	--	9.5	15.0	V

INTERFACE PIN CONNECTIONS			
NO.	SYM.	LEVEL	FUNCTION
1	VSS	--	Ground
2	VDD	--	Power supply for logic circuit
3	V _O	--	Power supply for LCD circuit
4	D/I	H/L	Data/Instruction
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
16	/RES	L	Controller reset
17	VEE	--	Negative voltage output
18	N.C	--	No Used
19	A	--	LED Backlight + (+5V)
20	K	--	LED Backlight - (0V)

ELECTRICAL						
ITEM	SYM.	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V _{DD} -V _{SS}	T _a =25°C	4.5	5.0	5.5	V
Supply Voltage For LCD Driver	V _{LCD}	T _a =25°C	11.7	12.0	12.3	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	--	5.0	6.5	mA
LED Current	I _F	T _a =25°C	--	78/300	--	mA

