



SG160160D (160 DOTS X160 DOTS)

FEATURES

- ◆ BUILT-IN CONTROLLER (LC7981 OR EQUIVALENT)
- ◆ +5 V POWER SUPPLY
- ◆ 1/160 DUTY CYCLE
- ◆ 8-BIT PARALLEL INTERFACE

MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	85.0 x 90.0 x 10.0 (14.6 LED)	mm
Viewing Area (W x H)	62.0 x 62.0	mm
Active Area (W x H)	60.76 x 60.76	mm
Dot Size (W x H)	0.34 x 0.34	mm
Dot Pitch (W x H)	0.38 x 0.38	mm

INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	FGND	-	Frame Ground
2	VSS	0V	Power Supply Ground
3	VDD	5V	Power Supply Voltage
4	VO	-	Contrast Adjustment Voltage
5	R/W	-	Read/Write
6	E	-	Enable Signal
7	/CS	L	Chop Select Signal For IC
8	RS	H	Register Select
9	/RES	L	Reset Signal
10-17	DB0-DB7	H/L	Data Bus Line
18	VEE	-	Power Supply Voltage For LCD
19	A	4.2V	LED Power Supply (+)
20	K	0V	LED Power Supply (-)

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V _{DD-VSS}	0	-	7	V
Supply Voltage For LCD Drive	V _{DD-V_o}	0	-	21	V
Input Voltage	V _I	V _{SS}	-	V _{DD}	V

ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Supply Voltage For Logic	V _{DD-VSS}	-	2.7	5	5.5	V	
LCD Supply Voltage	V _{DD-V_o}	V _{DD} =5V T _a =25°C	17.4	18	24.3	V	
Supply Current	I _{DD}	V _{DD} =5V	-	14	23	mA	
Input Voltage	"HIGH" Level	V _{IH}	-	2.2	-	V _{DD}	V
	"LOW" Level	V _{IL}	-	-	-	0.6	V
Output Voltage	"HIGH" Level	V _{OH}	-	2.4	-	-	V
	"LOW" Level	V _{OL}	-	-	-	0.4	V

EXTERNAL DIMENSIONS

