



# 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 <sub>DD</sub> -V <sub>SS</sub>	0	-	7	V
Supply Voltage For LCD Drive	V <sub>DD</sub> -V <sub>o</sub>	0	-	21	V
Input Voltage	V <sub>I</sub>	V <sub>SS</sub>	-	V <sub>DD</sub>	V

## ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Supply Voltage For Logic	V <sub>DD</sub> -V <sub>SS</sub>	-	2.7	5	5.5	V	
LCD Supply Voltage	V <sub>DD</sub> -V <sub>o</sub>	V <sub>DD</sub> =5V Ta=25	17.4	18	24.3	V	
Supply Current	I <sub>DD</sub>	V <sub>DD</sub> =5V	-	14	23	mA	
Input Voltage	"HIGH" Level	V <sub>IH</sub>	-	2.2	-	V <sub>DD</sub>	V
	"LOW" Level	V <sub>IL</sub>	-	-	-	0.6	V
Output Voltage	"HIGH" Level	V <sub>OH</sub>	-	2.4	-	-	V
	"LOW" Level	V <sub>OL</sub>	-	-	-	0.4	V

## EXTERNAL DIMENSIONS

