



# SG128128A ( 128 DOTS X 128 DOTS )

## FEATURES

- BUILT-IN CONTROLLER (T6963C OR EQUIVALENT)
- +5 V POWER SUPPLY
- 1/128 DUTY CYCLE
- 8-BIT PARALLEL INTERFACE

## MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	88.0 x 88.0 x 12.0 ( 16.8 LED )	mm
Viewing Area ( W x H )	69.0 x 69.0	mm
Active Area ( W x H )	63.96 x 63.96	mm
Dot Size ( W x H )	0.46 x 0.46	mm
Dot Pitch ( W x H )	0.50 x 0.50	mm

## INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	V <sub>SS</sub>	0V	Power Supply Ground
2	V <sub>DD</sub>	5V	Power Supply Voltage
3	V <sub>o</sub>	-	Contrast Adjustment Voltage
4	C/D	H/L	H : Instruction Code, L : Data Code
5	/RD	L	Read Signal
6	/WR	L	Write Singal
7~14	DB0~DB7	H/L	Data Bus Line
15	/CE	L	Enable Signal
16	/RST	L	Reset Signal
17	VEE	-	Power Supply Voltage For LCD
18	MD2	H/L	H : 32/L : 40 Select of Columns
19	FS1	H/L	H : 6*8 , L : 8*8 Select Of Columns
20	NC	-	No Connection

## 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	-	28	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>	-	4.5	5	5.5	V	
Supply Voltage For LCD	V <sub>DD</sub> -V <sub>o</sub>	V <sub>DD</sub> =5V Ta=25	17.2	18.5	19.6	V	
Supply Current	I <sub>DD</sub>	V <sub>DD</sub> =5V	-	16	25	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

