

# SG12864T ( 128 DOTS X 64 DOTS )

## FEATURES

- NO BUILT- IN CONTROLLER
- 2.7.5.5V POWER SUPPLY
- 1/64 DUTY CYCLE
- 1or 4 BIT PARALLEL INTERFACE

## MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	75.2 x 52.5 x 7.9 (9.2 LED)	mm
Viewing Area (W x H)	60.0 x 32.5	mm
Active Area (W x H)	55.01 x 27.49	mm
Dot Size (W x H)	0.40 x 0.40	mm
Dot Pitch (W x H)	0.43 x 0.43	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	VEE	-	Negative Power Supply for LCD Driver
5	VSS	0V	Power Supply Ground
6	/DISPOFF	H/L	Display OFF.Active LOW
7~10	DB0-DB3	H/L	Data Bus Line
11	AMP-S.D	-	4bit/1bit interface select
12	VSS	0V	Power Supply Ground
13	FLM	H	First Line Marker
14	M	H/L	Control Signal For AC Driving
15	CL1	H-L	Common Driver Data Shift Signal
16	CL2	H-L	Clock Pulse For Segment Shift Register
17	VSS	0V	Power Supply Ground
18	FGND	-	Frame Ground
18	A	4.2V	LED Power(+)
20	K	0V	LED Power(-)

## ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V <sub>DD-VSS</sub>	0	-	7	V
Supply Voltage For LCD Drive	V <sub>DD-V<sub>o</sub></sub>	0	-	18	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-VSS</sub>	-	4.5	5	5.5	V	
Supply Voltage For LCD	V <sub>DD-V<sub>o</sub></sub>	V <sub>DD</sub> =5V Ta=25.	10.2	10.5	12.2	V	
Supply Current	I <sub>DD</sub>	V <sub>DD</sub> =5V	-	6.2	10	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

