

# SG12832A ( 8 CHARACTERS X 2 LINES )

## FEATURES

- BUILT-IN CONTROLLER (ST7920 OR EQUIVALENT)
- +5 V POWER SUPPLY
- 1/16 DUTY CYCLE
- 8-BIT PARALLEL INTERFACE

## MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	66.0 x 26.0 x 8.5 ( 12.0 LED )	mm
Viewing Area ( W x H )	51.0 x 14.8	mm
Active Area ( W x H )	47.32 x 12.12	mm
Dot Size ( W x H )	0.33 x 0.34	mm
Dot Pitch ( W x H )	0.37 x 0.38	mm

## INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	V <sub>SS</sub>	0V	Supply Ground
2	V <sub>DD</sub>	5V	Supply Voltage
3	V <sub>0</sub>	-	Contrast Adj.
4	RS	H/L	Register Select
5	R/W	H	Read/Write
6	E	H	Enable Signal
7~14	DB0-DB7	H/L	Data Bus Line
15	A	4.2V	LED Power (+)
16	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>0</sub></sub>	0	-	12	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>0</sub></sub>	V <sub>DD</sub> =5V Ta=25.	4.4	4.8	5.2	V
Supply Current	I <sub>DD</sub>	V <sub>DD</sub> =5V	-	2.5	4.5	mA
Input Voltage	"HIGH" Level	V <sub>IH</sub>	-	2.2	-	V <sub>DD</sub>
	"LOW" Level	V <sub>IL</sub>	-	-	-	0.6
Output Voltage	"HIGH" Level	V <sub>OH</sub>	-	2.4	-	V
	"LOW" Level	V <sub>OL</sub>	-	-	-	0.4

## EXTERNAL DIMENSIONS

