

SG12832B (128 DOTS X 32 DOTS)

FEATURES

- . BUILT-IN CONTROLLER (HT1670 OR EQUIVALENT)
- . +5 V POWER SUPPLY
- . 1/32 DUTY CYCLE
- . 8-BIT PARALLEL INTERFACE

MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	73.0 x 37.0 x 10.8	mm
Viewing Area (W x H)	63.0 x 17.7	mm
Active Area (W x H)	58.84 x 14.68	mm
Dot Size (W x H)	0.42 x 0.42	mm
Dot Pitch (W x H)	0.46 x 0.46	mm

INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	V _{SS}	0V	Power Supply Ground
2	V _{DD}	5V	Power Supply Voltage
3	LIGHT	4.1V	LED Power Supply (+)
4	/CS	L	Chip Singal
5	/WR	L	Write Singal
6	/RD	L	Read Signal
7~10	DB0-DB3	H/L	Data Bus Line
11	/CLOCK	L	Time base or watchdog timer overflow flag
12	BZ+	-	2kHz Or 4 kHz Tone Frequency Output Pair .
13	BZ-	-	2kHz Or 4 kHz Tone Frequency Output Pair .

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V _{DD} -V _{SS}	0	-	7	V
Supply Voltage For LCD Drive	V _{DD} -V _o	0	-	12	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} -V _{SS}	-	4.5	5	5.5	V	
Supply Voltage For LCD	V _{DD} -V _o	V _{DD} =5V Ta=25.	4.4	4.8	5.2	V	
Supply Current	I _{DD}	V _{DD} =5V	-	3	4.5	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

