

# ***ME* DISPLAYS**

**SPECIFICATIONS**

**FOR**

**LCD MODULE**

**SG12832B**

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## • FEATURES

Number of Dots	128 x 32
Built-in Controller IC	HT1670 or equivalent
Duty Cycle	1/32 Duty
Power Supply	5V
LED Forward Voltage	4.2V
Options	EL/LED Backlight, STN

## • MECHANICAL PARAMETERS

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

## • ABSOLUTE MAXIMUM

Item	Symbol	Min.	Max	Unit
Supply Voltage for Logic	$V_{DD} - V_{SS}$	0	7.0	V
Supply Voltage for LCD Drive	$V_{DD} - V_O$	0	12	V
Input Voltage	$V_i$	$V_{SS}$	$V_{DD}$	V
Operating Temperature	$T_a$	0	+50	C
Storage Temperature	$T_{stg}$	-10	+60	C

## • ELECTRICAL CHARACTERISTICS

Item	Symbol	Condition	Min	Typ	Max	U
Power Supply Voltage for Logic	$V_{DD} - V_{SS}$	--	4.5	5.0	5.5	V
Power Supply Voltage for LCD	$V_{DD} - V_O$	$V_{DD}=5V$ $T_a=25C$	4.4	4.8	5.2	V
Input "High" Voltage(1)	$V_{ih}$	--	2.2	--	$V_{DD}$	V
Input "Low" Voltage(1)	$V_{il}$	--	--	--	0.6	V
Output "High" Voltage(1)	$V_{oh}$	--	2.4	--	--	V
Output "Low" Voltage(1)	$V_{ol}$	--	--	--	0.4	V
Power Supply Current	$I_{DD}$	$V_{DD} = 5.0V$	--	2.5	4.5	mA

(1) Applied to terminals CS1, CS2, DB0~DB7, R/W, D/I, E RST

• PIN ASSIGNMENT

No.	Symbol
1	V <sub>SS</sub>
2	V <sub>DD</sub>
3	Light (4.1V LED Power)
4	/CS
5	/WR
6	/RD
7	DB0

No.	Symbol
8	DB1
9	DB2
10	DB3
11	/CLOCK
12	BZ+
13	BZ-

• BLOCK DIAGRAM





