



# SH12864A (128 DOTS X 64 DOTS)

## FEATURES

- ◆ BUILT-IN CONTROLLER (ST7565 OR EQUIVALENT)
- ◆ +3.3 V POWER SUPPLY
- ◆ 1/64 DUTY CYCLE
- ◆ 8-BIT PARALLEL INTERFACE

## MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	80.0 x 54.0 x 9.7	mm
Viewing Area (W x H)	70.7 x 38.8	mm
Active Area (W x H)	66.52 x 33.24	mm
Dot Size (W x H)	0.48 x 0.48	mm
Dot Pitch (W x H)	0.52 x 0.52	mm

## INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	Vss	0V	Power Supply Ground
2	VDD	3.3V	Power Supply Voltage
3	NC	-	No Connection
4	/RES	H/L	Reset Signal
5	/CS	L	Chip Signal
6	RS	H/L	Data Type Select signal
7	/WR	L	Write Signal
8	/RD	L	Read Signal
9~16	DB0~DB7	H/L	Data Bus Line
17	A	3.3V	LED Power (+)
18	K	0V	LED Power (-)

## ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	VDD-VSS	0	-	7	V
Supply Voltage For LCD Drive	VDD-Vo	0	-	30	V
Input Voltage	VI	VSS	-	VDD	V

## ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Supply Voltage For Logic	VDD-VSS	-	2.7	3.3	4.5	V	
LCD Supply Voltage	VDD-Vo	VDD=3.3V Ta=25	9.6	10.2	11.2	V	
Supply Current	IDD	VDD=3.3V	-	2.4	3.5	mA	
Input Voltage	"HIGH" Level	V <sub>IH</sub>	-	2.2	-	VDD	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

