



# AL12864H ( 128 DOTS X 64 DOTS )

## FEATURES

- ◆ OLED DISPLAY
- ◆ 128 x 64 DOTS WITH CURSOR
- ◆ BUILT-IN CONTROLLER (SSD1309)
- ◆ 2.8V POWER SUPPLY
- ◆ 1/64 DUTY CYCLE
- ◆ INTERFACE 68xx / 80xx / 4-SPI / I2C

## INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION				
1	V <sub>SS</sub>	0V	Power Supply Ground				
2	V <sub>DD</sub>	2.8V	Power Supply Voltage				
3	NC	-	No Connection				
4	/DC	H/L	Data/Command Control				
5	/WR	L	Write Signal				
6	/RD	L	Read Signal				
7~14	DB0~DB7	H/L	Data Bus Line				
15	/CS	L	Chip Signal				
16	/RESET	L	Reset Signal				
17	BS1	H/L		80xx	68xx	I2C	4-SPI
			BS1	1	0	1	0
18	BS2	H/L	BS2	1	1	0	0
19	NC	-	No Connection				
20	FG		For GND				

## MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size ( W x H x T )	70.5 x 49.6 x 6.3	mm
Viewing Area ( W x H )	57.01 x 29.49	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

## ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V <sub>DD</sub> -V <sub>SS</sub>	0	-	4	V
Supply Voltage For OLED Drive	V <sub>DD</sub> -V <sub>o</sub>	0	-	15	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</sub> -V <sub>SS</sub>	-	2.4	2.8	3.3	V
Supply Voltage For OLED	V <sub>DD</sub> -V <sub>o</sub>	V <sub>DD</sub> =2.8V Ta=25℃	12.5	13	13.5	V
Supply Current	I <sub>DD</sub>	V <sub>DD</sub> =2.8V	-	90	120	mA
Input Voltage	"HIGH" Level	V <sub>IH</sub>	-	0.8V <sub>DD</sub>	-	V <sub>DD</sub>
	"LOW" Level	V <sub>IL</sub>	-	0	-	0.2V <sub>DD</sub>
Output Voltage	"HIGH" Level	V <sub>OH</sub>	-	0.9V <sub>DD</sub>	-	V <sub>DD</sub>
	"LOW" Level	V <sub>OL</sub>	-	0	-	0.1V <sub>DD</sub>

## EXTERNAL DIMENSIONS

