



# SH12864C (128 DOTS X 64 DOTS)

## FEATURES

BUILT-IN CONTROLLER (ST7565 OR EQUIVALENT)

+3.0 V POWER SUPPLY

1/64 DUTY CYCLE

SERIAL INTERFACE

## MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	72.0 x 54.0 x 7.5	mm
Viewing Area (W x H)	65.5 x 38.0	mm
Active Area (W x H)	60.775 x 32.935	mm
Dot Size (W x H)	0.45 x 0.49	mm
Dot Pitch (W x H)	0.475 x 0.515	mm

## INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	V <sub>SS</sub>	0V	Power Supply Ground
2	V <sub>DD</sub>	3.0V	Power Supply Voltage
3	SI	H/L	Serial Data Input
4	SCL	H/L	Serial Clock Input
5	AO	H/L	Data Type Select Signal
6	/RES	L	Reset Signal
7	/CS	L	Chip Select signal for IC
8	A+	3.2V	LED Power(+)
9	K-	0V	LED Power(-)

## ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V <sub>DD-VSS</sub>	0	-	5.0	V
Supply Voltage For LCD Drive	V <sub>DD-V<sub>o</sub></sub>	0	-	18.0	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>	-	2.7	3.0	3.3	V	
LCD Supply Voltage	V <sub>DD-V<sub>o</sub></sub>	V <sub>DD</sub> =3.0V T <sub>a</sub> =25	8.5	9.5	10.5	V	
Supply Current	I <sub>DD</sub>	V <sub>DD</sub> =3.0V	-	1.2	2.3	mA	
Input Voltage	"HIGH" Level	V <sub>IH</sub>	-	2.2	-	V <sub>DD</sub>	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

