



# SG12232P ( 122 DOTS X 32 DOTS )

## FEATURES

BUILT-IN CONTROLLER (SBN1661 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)	117.0 x 39.0 x 12.7	mm
Viewing Area ( W x H )	84.0 x 27.0	mm
Active Area ( W x H )	79.62 x 20.76	mm
Dot Size ( W x H )	0.61 x 0.61	mm
Dot Pitch ( W x H )	0.65 x 0.65	mm

## INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	V <sub>SS</sub>	0V	Power Supply Ground
2	V <sub>DD</sub>	5V	Power Supply Voltage
3	V <sub>o</sub>	-	Contrast Adjustment Voltage
4	A <sub>o</sub>	H/L	Data Type Select Signal
5	R/W	H/L	H : Read / L : Write
6	E1	H,H L	Chip Select Singal for IC1
7	E2	H,H L	Chip Select Singal for IC2
8~15	DB0~DB7	H/L	Data Bus Line
16	/RES	L	Reset Signal
17	A	4.2V	LED Power (+)
18	K1	L	Red LED power supply
19	K2	L	Green LED power supply
20	K3	L	Blue LED power supply

## ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V <sub>DD</sub> -V <sub>SS</sub>	0	-	7	V
Supply Voltage For LCD Drive	V <sub>DD</sub> -V <sub>o</sub>	0	-	12	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>	-	4.5	5	5.5	V	
Supply Voltage For LCD	V <sub>DD</sub> -V <sub>o</sub>	V <sub>DD</sub> =5V Ta=25	4.4	4.8	5.2	V	
Supply Current	I <sub>DD</sub>	V <sub>DD</sub> =5V	-	2.5	4.5	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	V
	"LOW" Level	V <sub>OL</sub>	-	-	-	0.4	V

## EXTERNAL DIMENSIONS

