

# SG12232Q ( 122 DOTS X 32 DOTS )

## FEATURES

- . BUILT-IN CONTROLLER (SED1520 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)	66.2 x 33.2 x 8.8	mm
Viewing Area (W x H)	60.5 x 18.5	mm
Active Area (W x H)	53.64 x 15.64	mm
Dot Size (W x H)	0.40 x 0.45	mm
Dot Pitch (W x H)	0.44 x 0.49	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>0</sub>	-	Contrast Adjustment Voltage
4	A <sub>0</sub>	H/L	Data Type Select Signal
5	R/W	H/L	H : Read / L : Write
6	E1	H	Chip Select Signal For IC1
7	E2	H	Chip Select Signal For IC2
8	K	0V	LED Power (-)
9~16	DB0~DB7	H/L	Data Bus Line

## 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>0</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>0</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
	"LOW" Level	V <sub>OL</sub>	-	-	-	0.4	V

## EXTERNAL DIMENSIONS

