



SG12232B (122 DOTS X 32 DOTS)

FEATURES

- ◆ BUILT-IN CONTROLLER (S6B1713 OR EQUIVALENT)
- ◆ +5 V POWER SUPPLY
- ◆ 1/32 DUTY CYCLE
- ◆ 8-BIT PARALLEL INTERFACE
- ◆ 4.2 V LED FORWARD VOLTAGE

MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	74.0 x 28.0 x 6.5	mm
Viewing Area (W x H)	58.9 x 18.4	mm
Active Area (W x H)	54.87 x 14.37	mm
Dot Size (W x H)	0.41 x 0.41	mm
Dot Pitch (W x H)	0.45x 0.45	mm

INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	V _{DD}	5V	Power Supply Ground
2	V _{SS}	0V	Power Supply Voltage
3	V _o	-	Contrast Adjustment Voltage
4	RST	H/L	Reset Signal
5	E1	H/L	Enable IC1
6	E2	H→L	Enable IC2
7	R/W	5V	H:Read/L:Write
8	A0	L	Data Type Select Signal
9~16	DB0-DB7	H/L	Data Bus Line
17	A	4.2V	LED Power Supply (+)
18	K	0V	LED Power Supply (-)

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V _{DD} -V _{SS}	0	-	7	V
Supply Voltage For LCD Drive	V _{DD} -V _o	0	-	17	V
Input Voltage	V _I	V _{SS}	-	V _{DD}	V

ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Supply Voltage For Logic	V _{DD} -V _{SS}	-	2.4	3	3.6	V	
Supply Voltage For LCD	V _{DD} -V _o	V _{DD} =5V Ta=25°C	4.4	4.8	5.2	V	
Supply Current	I _{DD}	V _{DD} =5V	-	2.5	4.5	mA	
Input Voltage	"HIGH" Level	V _{IH}	-	2.2	-	V _{DD}	V
	"LOW" Level	V _{IL}	-	-	-	0.6	V
Output Voltage	"HIGH" Level	V _{OH}	-	2.4	-	V	V
	"LOW" Level	V _{OL}	-	-	-	0.4	V

EXTERNAL DIMENSIONS

