

SG12232C (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)	85.0 x 40.0 x 8.8 (12.7 LED)	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 (WxH)	0.40 x 0.45	mm
Dot Pitch (WxH)	0.44 x 0.49	mm

■ INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	Vss	0V	Power Supply Ground
2	V _{DD}	5V	Power Supply Voltage
3	Vo	-	Contrast Adjustment Voltage
4	Ao	H/L	Data Type Select Signal
5	CS1	Н	Chip Select Signal For IC1
6	CS2	Н	Chip Select Signal For IC2
7	CL	H/L	Clock Input (2 KHz)
8	Е	$H \rightarrow L$	Enable Signal
9	R/W	H/L	H: Read / L: Wrtie
10~17	DB0~DB7	H/L	Data Bus Line
18	/RES	L	Reset Signal
19	A	4.2V	LED Power (+)
20	K	0V	LED Power (-)

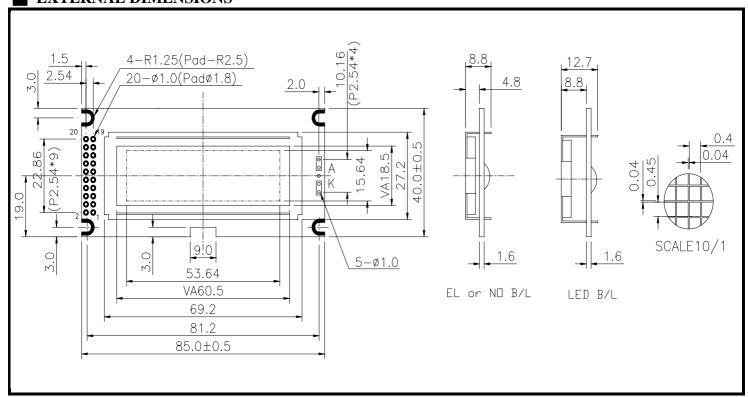
■ ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	Vdd-Vss	0	-	7	V
Supply Voltage For LCD Drive	V _{DD} -V _o	0	-	12	V
Input Voltage	VI	Vss	-	V _{DD}	V

■ ELECTRICAL CHARACTERISTICS

IT	EM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Volta	Supply Voltage For Logic		-	4.5	5	5.5	V
Supply Volta	ge For LCD	V _{DD} -V _o	Vdd=5V Ta=25°C	4.4	4.8	5.2	V
Supply Curre	nt	IDD VDD=5V - 2.5 4.5		4.5	mA		
Input	"HIGH" Level	Vih	-	2.2	-	Vdd	V
Voltage	"LOW" Level	VIL	-	-	-	0.6	V
Output	"HIGH" Level	Vон	-	2.4	-	-	V
Voltage	"LOW" Level	Vol	-	-	-	0.4	V

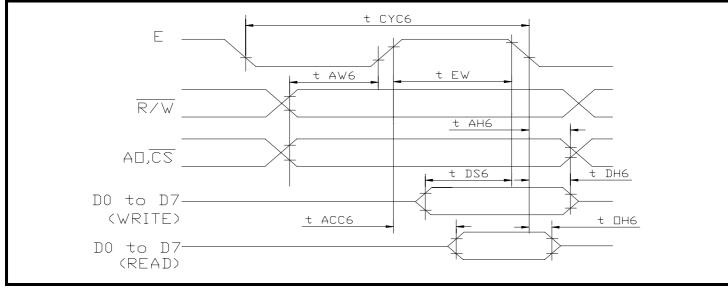
EXTERNAL DIMENSIONS



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TIMING CHARACTERISTICS

ITEM		SYMBOL	MIN.	TYP.	MAX.	UNIT.
System Cycle Time		tcyc6	1000	-	-	ns
Address Set-up Time		t _{AW6}	20	-	•	ns
Address Hold Time		t _{AH6}	10	-	1	ns
Data Set-up Time		$t_{ m DS6}$	80	-	-	ns
Data Hold Time		$t_{ m DH6}$	10	-	1	ns
Output Disable Time		t он6	10	-	60	ns
Access Time		t _{ACC6}	-	-	90	ns
Enable Pulse Width	Read	$t_{ m EW}$	100	-	-	ns
	Write		80	-	-	ns



■ BLOCK DIAGRAM

