

SG19232C (12 DOTS X 2 DOTS)

FEATURES

- ◆ BUILT-IN CONTROLLER (ST7920 OR EQUIVALENT)
- ◆ +5 V POWER SUPPLY
- ◆ 1/32 DUTY CYCLE
- ◆ 8-BIT PARALLEL INTERFACE
- ◆ 4.2 V LED FORWARD VOLTAGE

INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	Vss	0V	Power Supply Ground
2	VDD	5V	Power Supply Voltage
3	Vo	-	Contrast Adjustment Voltage
4	RS	H/L	Register Select
5	R/W	H/L	H : Read / L : Write
6	E	H→L	Enable Signal
7-14	DB0~DB7	H/L	Data Bus Line
15	A	4.2V	LED Power (+)
16	K	0V	LED Power (-)

MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	116.0 x 37.0 x 9.4 (10.8 LED)	mm
Viewing Area (W x H)	88.0 x 19.0	mm
Active Area (W x H)	80.6 x 16.28	mm
Dot Size (W x H)	0.38 x 0.47	mm
Dot Pitch (W x H)	0.42 x 0.51	mm

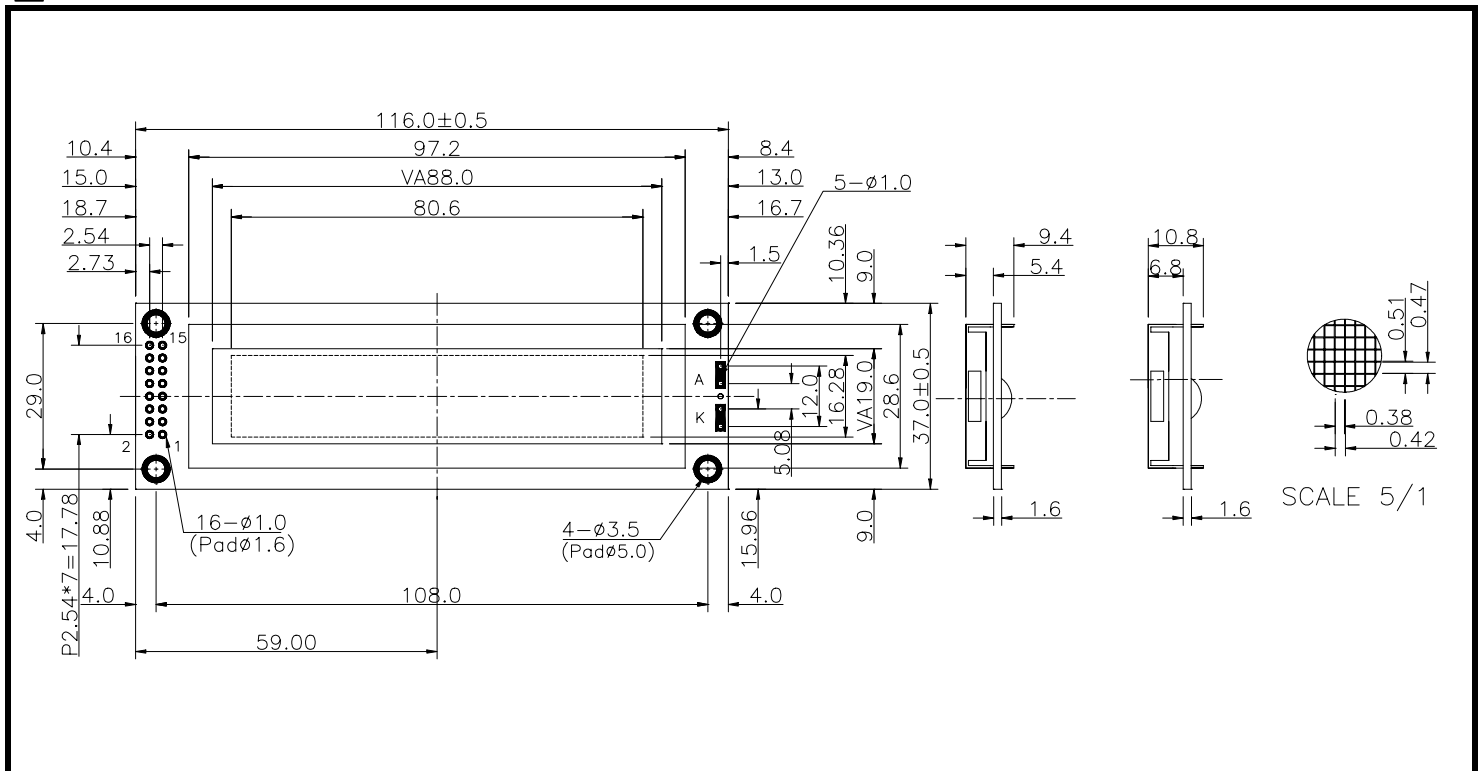
ABSOLUTE MAXIMUM RATINGS

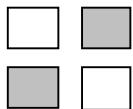
ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	VDD-Vss	0	-	7	V
Supply Voltage For LCD Drive	VDD-Vo	0	-	12	V
Input Voltage	Vi	Vss	-	VDD	V

ELECTRICAL CHARACTERISTICS

ITEM		SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic		VDD-VSS	-	4.5	5	5.5	V
Supply Voltage For LCD		VDD-Vo	VDD=5V Ta=25℃	4.4	4.8	5.2	V
Supply Current		IDD	VDD=5V	-	3	4.5	mA
Input	"HIGH" Level	VIH	-	2.2	-	VDD	V
Voltage	"LOW" Level	VIL	-	-	-	0.6	V
Output	"HIGH" Level	VOH	-	2.4	-	-	V
Voltage	"LOW" Level	VOL	-	-	-	0.4	V

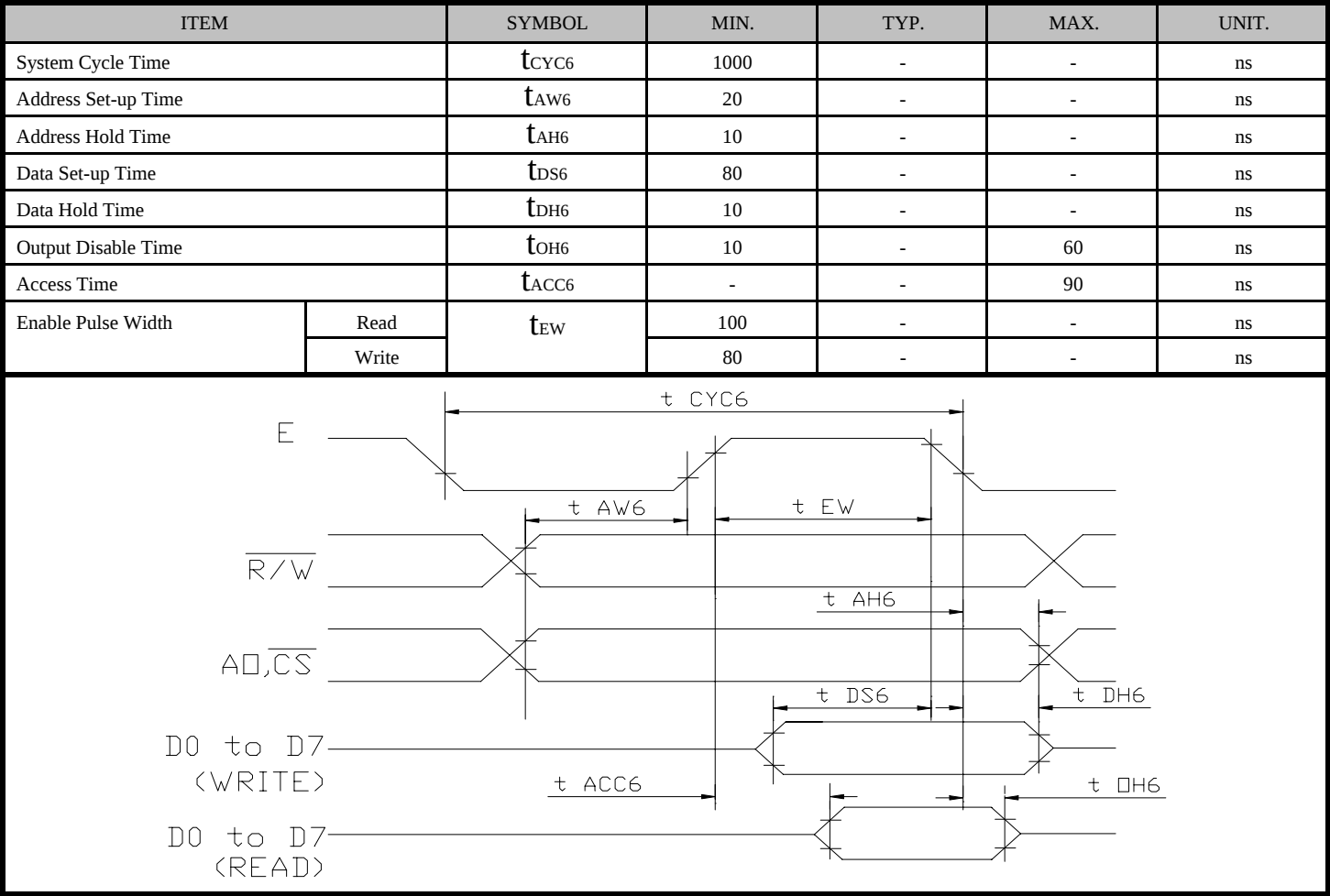
EXTERNAL DIMENSIONS





SG19232C (192 DOTS X 32 DOTS)

TIMING CHARACTERISTICS



BLOCK DIAGRAM

