

# SC2004H ( 20 CHARACTERS x 4 LINES )

## FEATURES

- ◆ 5 x 7 DOTS WITH CURSOR
- ◆ BUILT-IN CONTROLLER (KS0066 OR EQUIVALENT)
- ◆ 2.7~5.5 V POWER SUPPLY
- ◆ 1/16 DUTY CYCLE
- ◆ 8-BIT PARALLEL INTERFACE

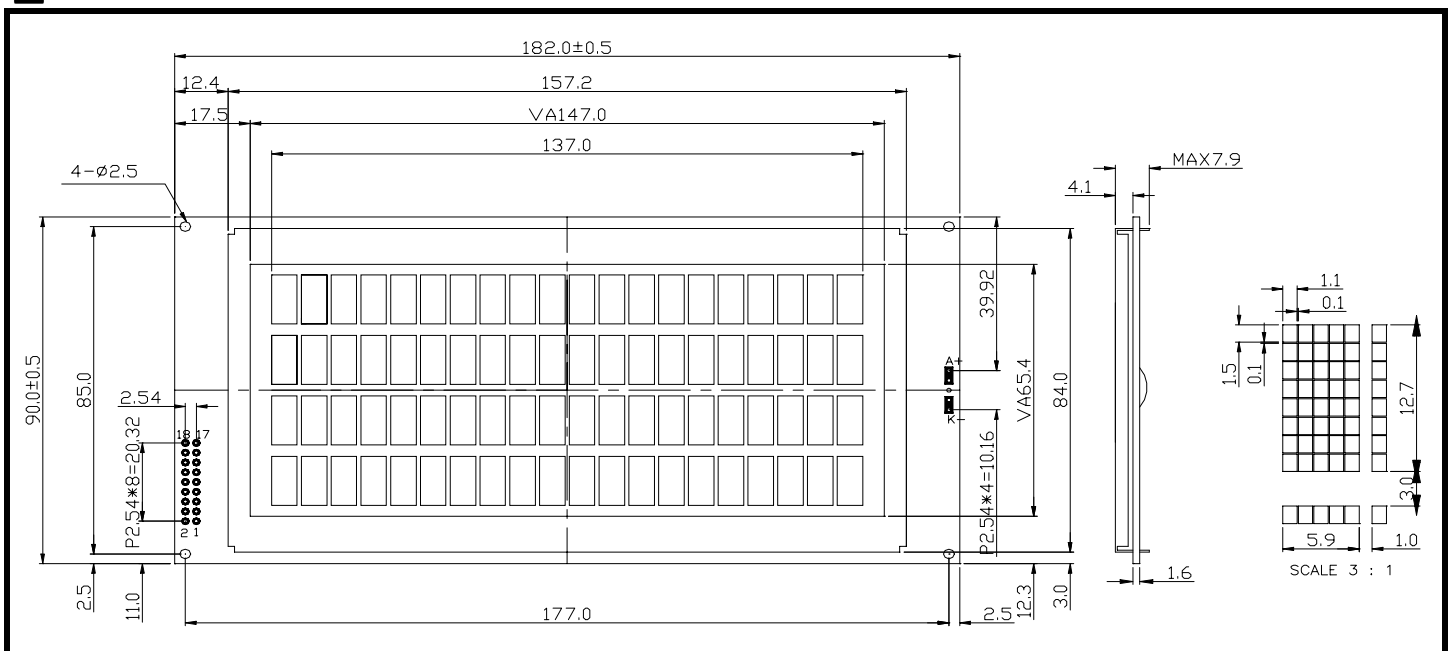
## MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size ( W x H x T )	182.0 x 90.0 x 7.9	mm
Viewing Area ( W x H )	147.0 x 65.4	mm
Character Size ( W x H )	5.9 x 12.7	mm
Character Pitch ( W x H )	6.9 x 15.7	mm
Dot Size ( W x H )	1.1 x 1.5	mm
Dot Pitch ( W x H )	1.2 x 1.6	mm

## INTERFACE PIN CONNECTIONS

NO.	SYMBOL	FUNCTION	NO.	SYMBOL	FUNCTION
1	VSS	Supply Ground	10	DB3	Data Bit 3
2	VDD	Supply Voltage	11	DB4	Data Bit 4
3	Vo	Contrast Adj.	12	DB5	Data Bit 5
4	RS	Register Select	13	DB6	Data Bit 6
5	R/W	Read/Write	14	DB7	Data Bit 7
6	E	Enable Signal	15	A	LED Power
7	DB0	Data Bit 0	16	K	LED Power
8	DB1	Data Bit 1	17	NC	No Control
9	DB2	Data Bit 2	18	NC	No Control

## EXTERNAL DIMENSIONS



## ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
LCD Operating Voltage	V <sub>DD-Vo</sub>	T=0°C	-	4.8	-	V
		T=25°C	-	4.5	-	V
		T=50°C	-	4.2	-	V
Supply Voltage	V <sub>DD-VSS</sub>	-	2.7	5	5.5	V
Supply Current	I <sub>DD</sub>	-	-	3.2	6	mA
Input Voltage	"HIGH" Level	V <sub>IH</sub>	-	2.2	-	V <sub>DD</sub> V
	"LOW" Level	V <sub>IL</sub>	-	0	-	0.6 V
Output Voltage	"HIGH" Level	V <sub>OH</sub>	-	2.4	-	V
	"LOW" Level	V <sub>OL</sub>	-	-	-	0.4 V

## BLOCK DIAGRAM

