SG16032D (160 CHARACTERS X32 LINES)

■ FEATURES

- ◆ BUILT-IN CONTROLLER (ST7920 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)	122.0 x 44.0 x 13.6	mm
Viewing Area (W x H)	99.0 x 24.0	mm
Active Area (W x H)	94.36 x 19.16	mm
Dot Size (W x H)	0.55 x 0.56	mm
Dot Pitch (W x H)	0.59 x 0.60	mm

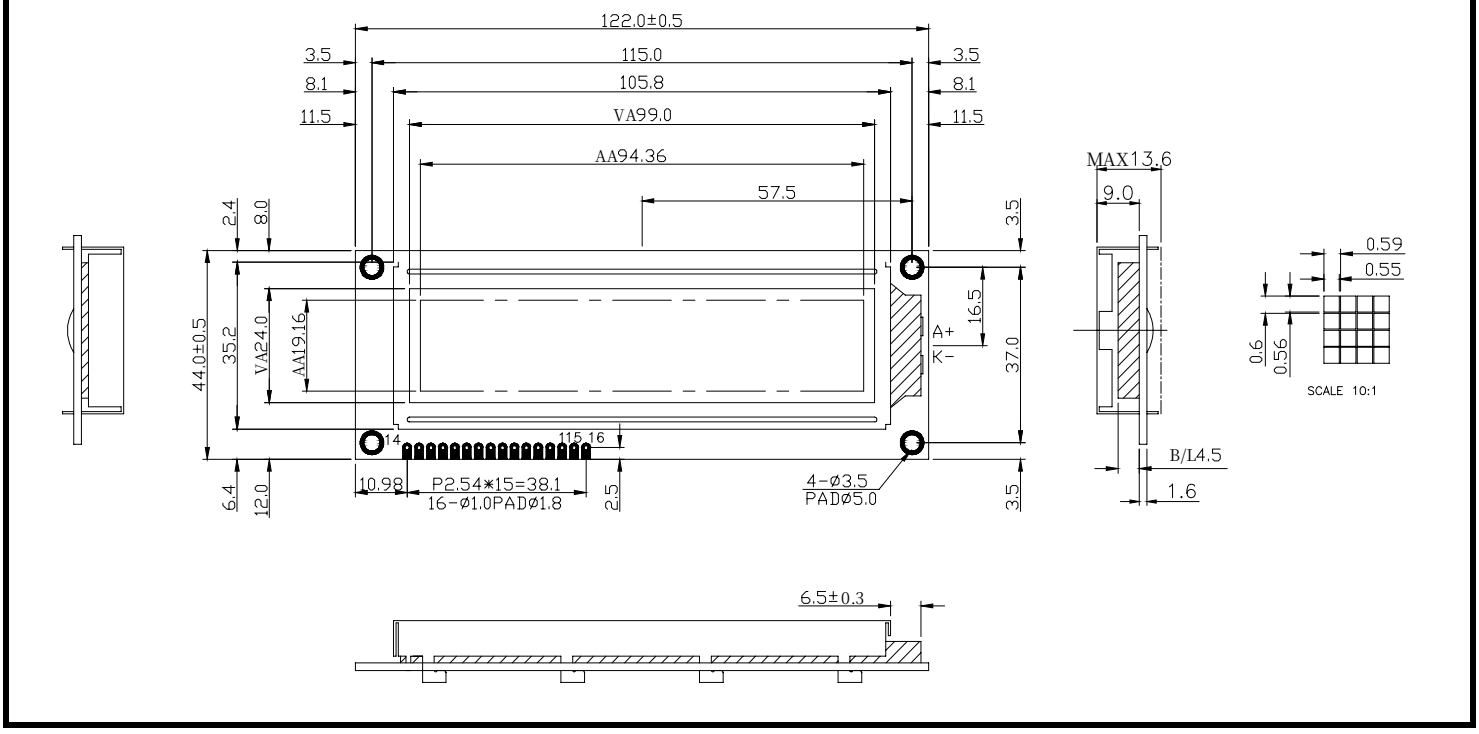
■ INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	V_{SS}	0V	Supply Ground
2	V_{DD}	5V	Supply Voltage
3	V_O	-	LCD driver supply voltage
4	RS	H/L	Register Select
5	R/W	H	Read/Write
6	E	H	Enable Signal
7~14	DB0~DB7	H	Data Bus Line
15	A	4.2V	LED Power (+)
16	K	0V	LED Power (-)

■ ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V_{DD}-V_{SS}	0	-	6	V
Supply Voltage For LCD Drive	V_{DD}-V_o	0	-	7	V
Input Voltage	V_I	Vss	-	V_{DD}	V

■ ELECTRICAL CHARACTERISTICS

ITEM		SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic		V_{DD}-V_{SS}	-	4.5	5	5.5	V
Supply Voltage For LCD		V_{DD}-V_o	V_{DD}=5V Ta=25℃	4.5	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	-	VDD	V
	"LOW" Level	V_{IL}	-	-	-	0.6	V
Output Voltage	"HIGH" Level	V_{OH}	-	2.4	-	-	V
	"LOW" Level	V_{OL}	-	-	-	0.4	V

■ EXTERNAL DIMENSIONS