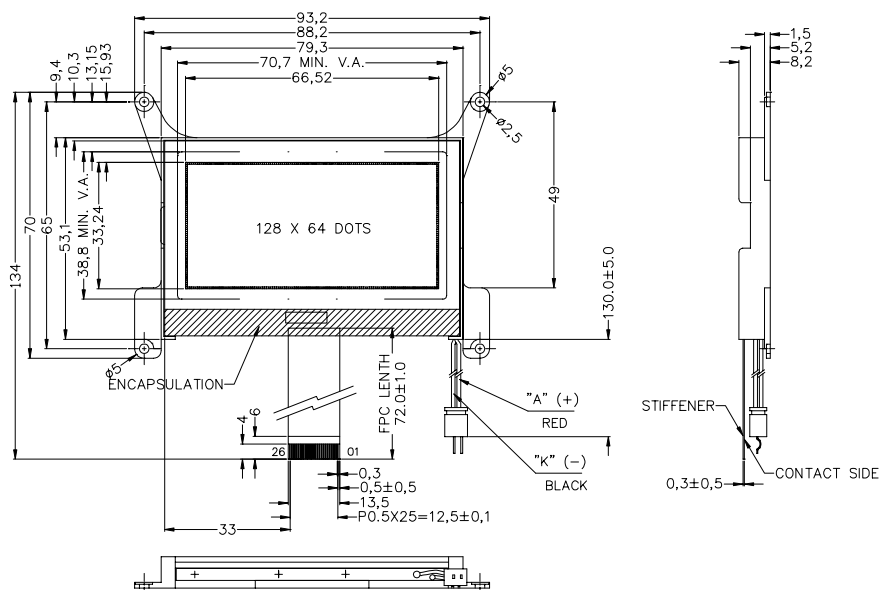
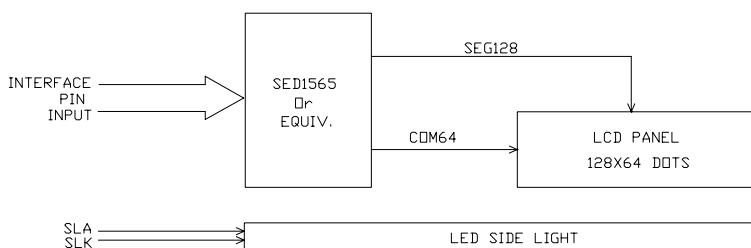


**OUTLINE DIMENSION**

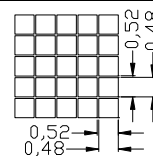


Tolerance: ± 0.20mm, unless otherwise specified.

**BLOCK DIAGRAM**



**DISPLAY PATTERN**



**MECHANICAL SPECIFICATION**

Item	Dimensions(W)X(H)	Unit
Overall Size	93.2x70.0	MM
View Area	70.7x38.8	MM
Dot Size	0.48x0.48	MM
Dot Pitch	0.52x0.52	MM

**PIN ASSIGNMENT**

Pin no	Symbol	Level	Description
1	/CS1	H-L	Chip select signal
2	/RESET	H-L	Reset
3	AO	H/L	Data / Instruction signal
4	/WR	H-L	Write signal (8080)
5	/RD	H-L	Read signal (8080)
6-13	D0-D7	H/L	Parallel data input
14	V <sub>DD</sub>	---	Power supply
15	V <sub>SS</sub>	---	Power supply
16	V <sub>OUT</sub>	---	DC/DC voltage converter
17	CAP3-	---	DC/DC voltage converter
18	CAP1+	---	DC/DC voltage converter
19	CAP1-	---	DC/DC voltage converter
20	CAP2-	---	DC/DC voltage converter
21	CAP2+	---	DC/DC voltage converter
22-26	V1-V5	---	LCD biasing voltages

**ABSOLUTE MAXIMUM RATING**

Item	Symbol	Condition	Min	Max	Unit
Supply for logic voltage	V <sub>DD</sub>	25°C	-0.3	7.0	V
LCD driving supply voltage	V <sub>LCD</sub>	25°C	-18	0.3	V
Input voltage	V <sub>I</sub>	25°C	-0.3	V <sub>DD</sub> +0.3	V

**ELECTRICAL CHARACTERISTICS**

Item	Symbol	Condition	Min	Typical	Max	Unit
Supply voltage for logic and for converter voltage	V <sub>DD</sub>	25°C	---	3.0±0.1	---	V
Current consumption	I <sub>DD</sub>	25°C	---	96.0	---	µA
Input voltage " H " level	V <sub>IH</sub>	V <sub>DD</sub> =3V	0.8V <sub>DD</sub>	---	V <sub>DD</sub>	V
Input voltage " L " level	V <sub>IL</sub>	V <sub>DD</sub> =3V	V <sub>SS</sub>	---	0.2V <sub>DD</sub>	V

**REMARKS:**

- LCD options: STN, FSTN.
- Back light type: LED Side light feature.