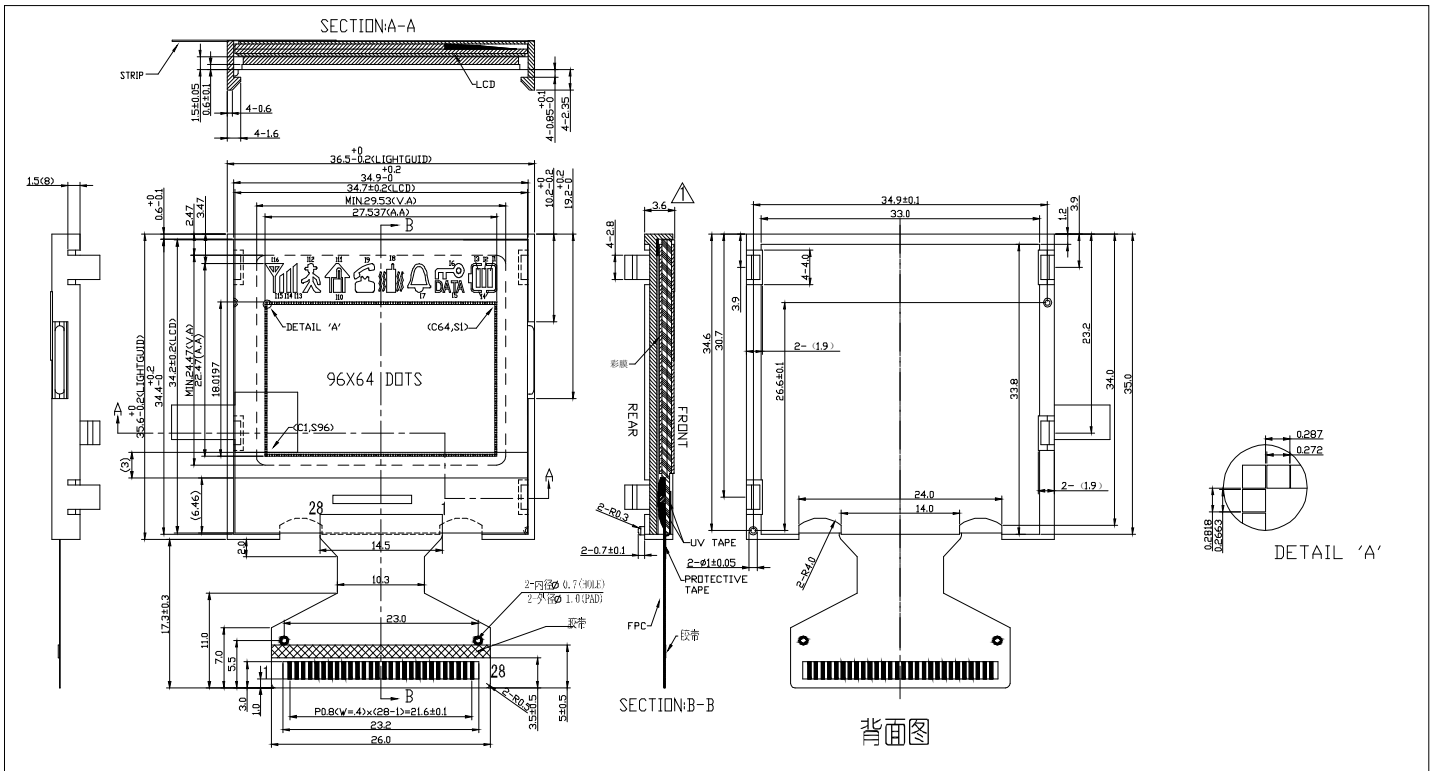
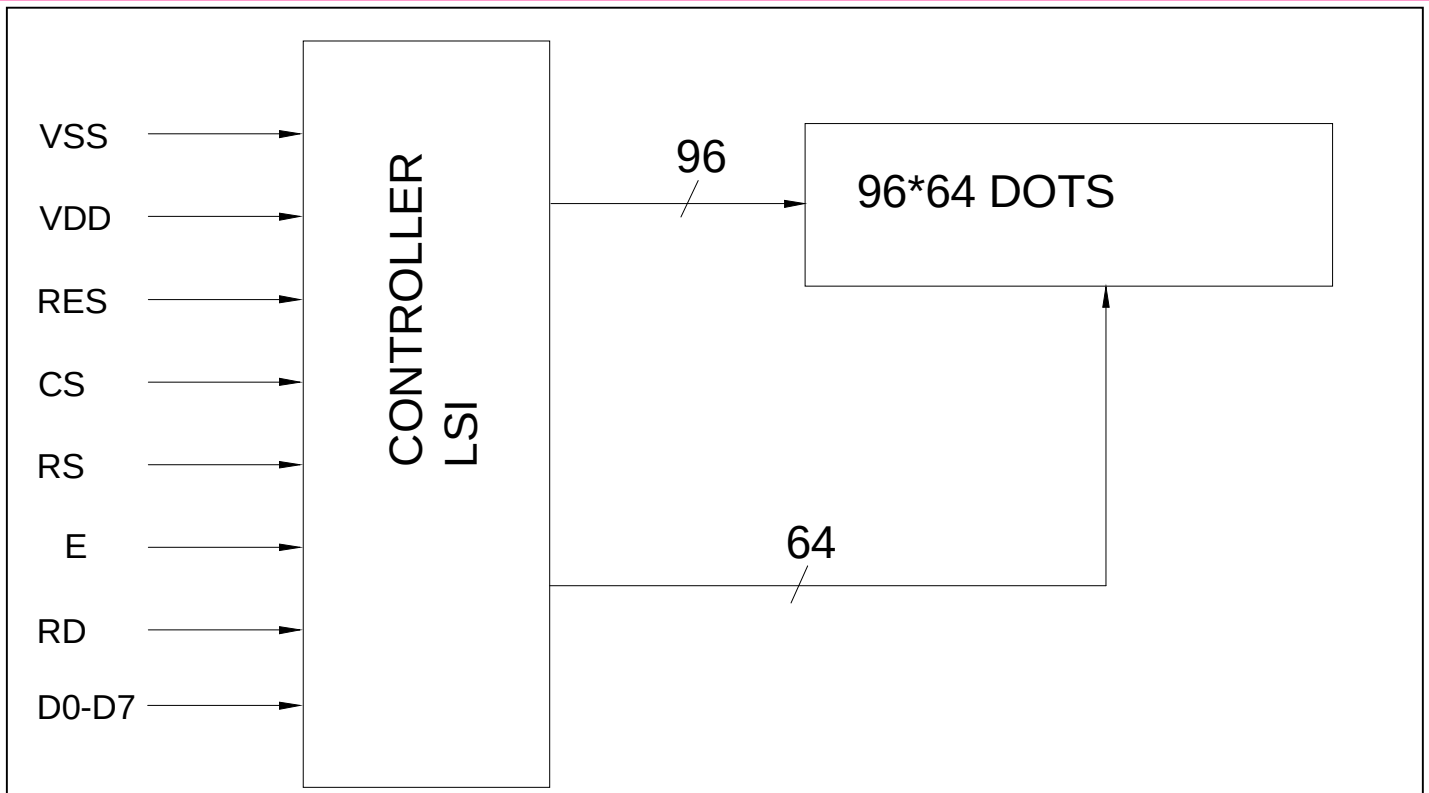


1.0 DIMENSIONAL DRAWING



2.0 BLOCK DIAGRAM



3.0 ELECTRICAL CHARACTERISTICS (VSS = 0 V, VDD = 3.0 V ± 10%, Ta = -40 to 85°C)

Item	Symbol	Test Condition	Standard Value			
			Min.	Typ.	Max.	Unit
Power Supply Voltage	V _{DD}	25°C	--	3.0	--	V
LCD Operation Voltage	V _{OP}	25°C(FSTN)	--	9.4	--	V
LCM Current Consumption	I _{DD}	25°C	--	--	1.0	mA

4.0 ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Test Condition	Standard Value		
			Min.	Max.	Unit
Supply Voltage (Logic)	$V_{DD}-V_{SS}$	25°C	-0.3	4.0	V
Supply Voltage (LCD)	$V_{DD}-V_O$		0.3	18.0	V
Input Voltage	V_{IN}		-0.3	$V_{DD}+0.3$	V
Operating Temp.	T_{OPR}		0	50	°C
Storage Temp.	T_{STG}		-20	60	°C

5.0 PIN ASSIGNMENT

PIN NO.	Symbol	Description
1~5	V0~V4	CONNECT TO 1.0Uf à VSS
6	VR	CONNECT TO TWO RESIST TO ADJUST CONTRAST.
7	C2-	CONNECT TO 1.0Uf à C2+
8	C2+	--
9	C1-	CONNECT TO 1.0Uf à C1+
10	C1+	--
11	C3+	--
12	C1-	CONNECT TO 1.0Uf à C3+
13	VOUT	CONNECT TO 1.0Uf à VSS
14	VSS	GND
15~22	DB7~DB0	DATA BUS
23	VDD	+3.0V
24	/RD	L: READ
25	/WR	L: WRITE
26	A0	L:COMMAND;H:DATA
27	/CS	L:CHIP SELECTED
28	/RES	L: RESET

Remark:

1. LCD option: TN,STN, FSTN .
2. Customized module.