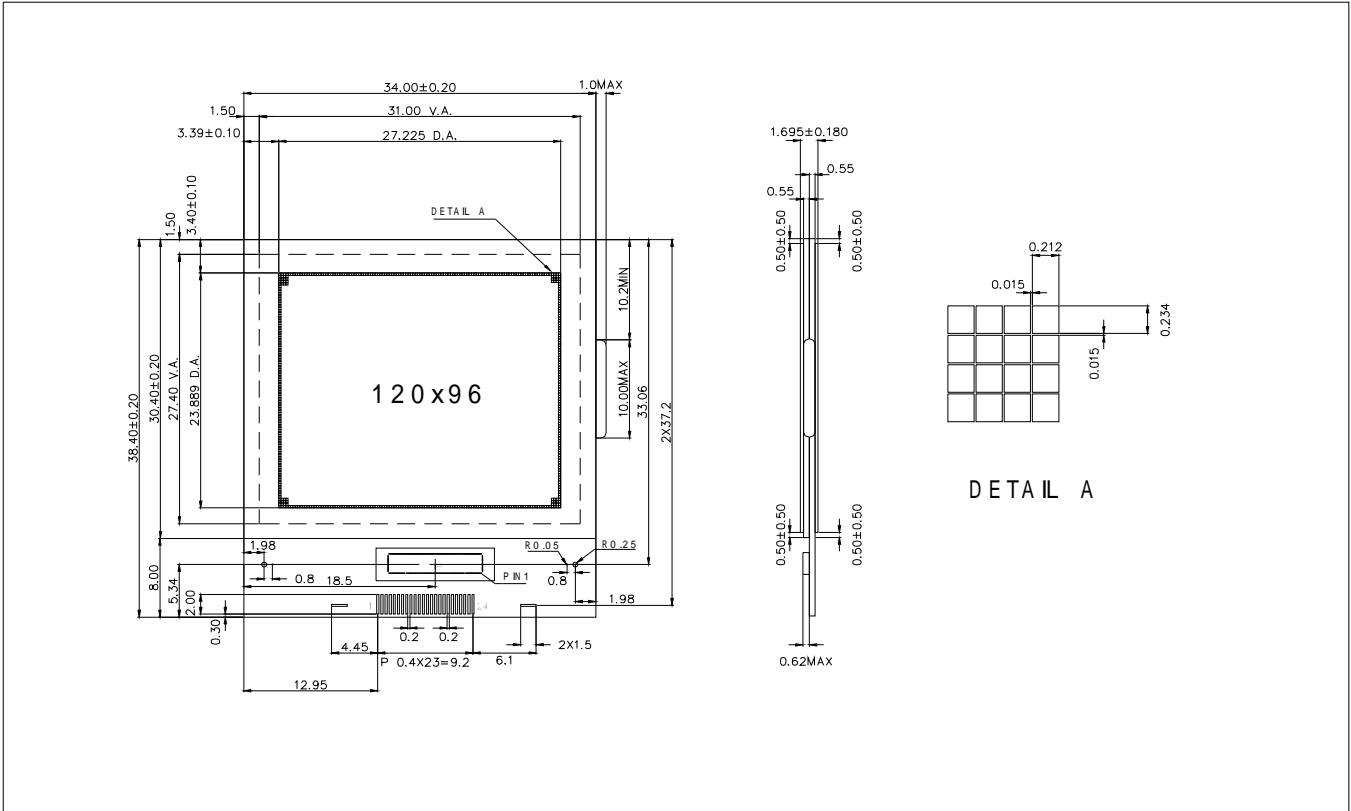
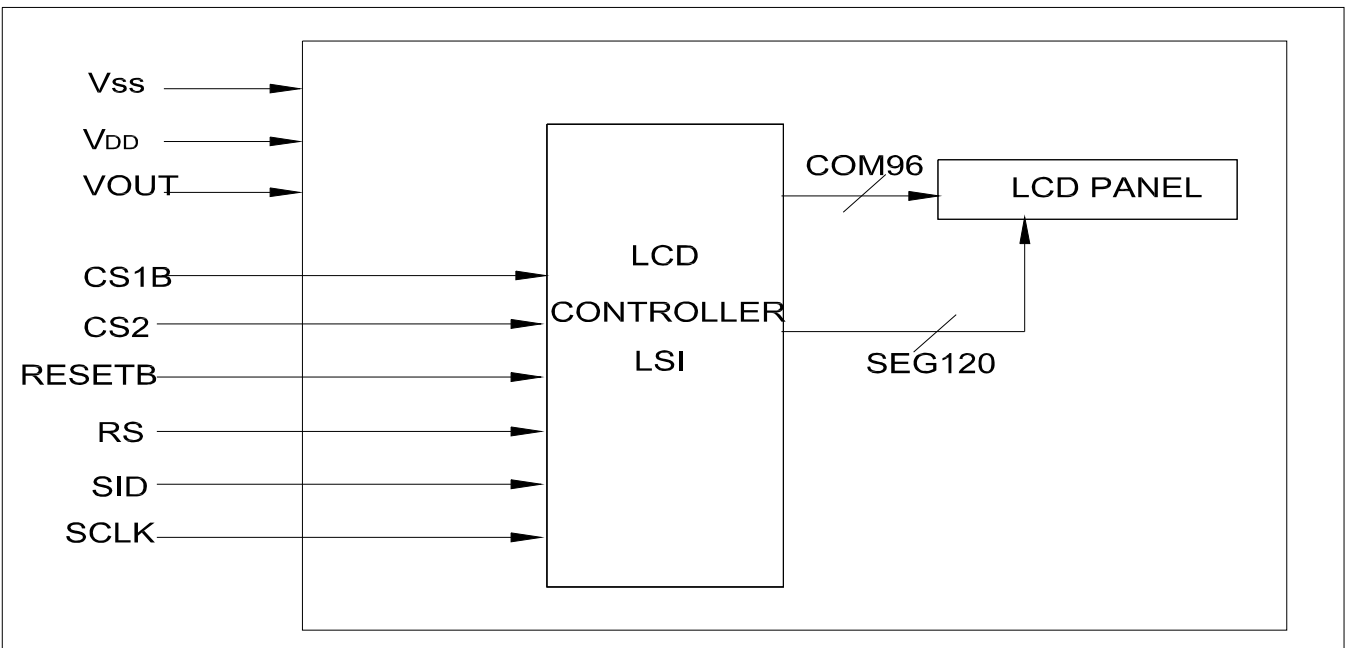


1.0 DIMENSIONAL DRAWING



2.0 BLOCK DIAGRAM



3.0 ELECTRICAL CHARACTERISTICS $T_a=25\text{ }^\circ\text{C}$ $V_{DD}=3.0\text{V}\pm 0.25\text{V}$

Item	Symbol	Test Condition	Standard Value			
			Min.	Typ.	Max.	Unit
Power Supply Voltage	$V_{DD}-V_{SS}$	25°C	-	3.0	-	V
LCD Operation Voltage	V_{OP}		-	11.5	18	V
LCM Current Consumption	I_{DD}		-	1	2	mA
Backlight Forward Voltage(EL)	V_F		-	-	-	Vrms

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	7	V
Supply Voltage (LCD)	$V_{DD}-V_O$		-0.3	20	V
Input Voltage	V_{IN}		-0.3	$V_{DD}+0.3$	V
Operating Temp.	T_{OPR}	-	-20	70	°C
Storage Temp.	T_{STG}	-	-30	80	°C

5.0 PIN ASSIGNMENT

PIN No.	Symbol	Description
1	+VLED	Nc
2	V0	Connect 1.0 uF à VSS
3	V1	Connect 1.0 uF à VSS
4	V2	Connect 1.0 uF à VSS
5	V3	Connect 1.0 uF à VSS
6	V4	Connect 1.0 uF à VSS
7	NC	Nc
8	C4+	Connect 1.0 uF à C2-
9	C2-	Connect 1.0 uF à C2+
10	C2+	Nc
11	C1+	Connect 1.0 uF à C1-
12	C1-	Connect 1.0 uF à C3+
13	C3+	Nc
14	C5+	Nc
15	VOUT	Connect 1.0 uF à VSS
16	VSS	GND
17	VDD	Recommend +3.0V
18	SID	Connect to MPU
19	SCLK	Connect to MPU
20	RS	Connect to MPU
21	RESETB	Connect to MPU
22	CS2	Connect to MPU
23	CS1B	Connect to MPU
24	-VLED	Nc

Remark

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