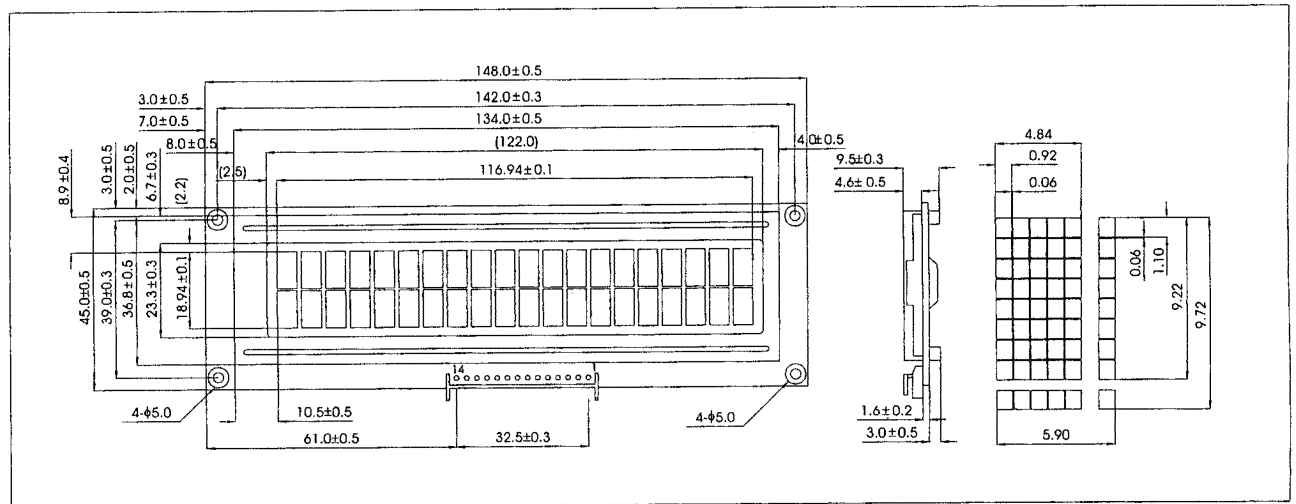
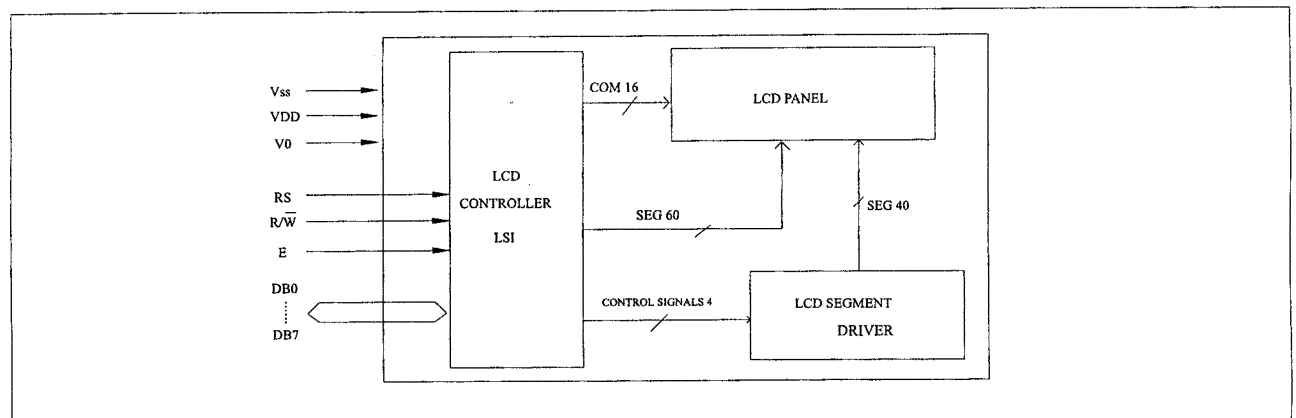


(20 characters X 2 lines)

**1.0 DIMENSIONAL DRAWING**



**2.0 BLOCK DIAGRAM**



**3.0 MECHANICAL SPECIFICATIONS**

Item	Nominal Dimensions	Unit
Module Size (W X H X T1/T2)	148.0 X 45.0 X 10.5	mm
Viewing Area (W X H)	122.0 X 23.3	mm
Character Pitch (W X H)	5.90 X 9.72	mm
Character Size (W X H)	4.84 X 9.22	mm
Character Font	5 X 8 DOTS	-
Dot Pitch (W X H)	0.98 X 1.16	mm
Dot Size (W X H)	0.92 X 1.10	mm

**4.0 ELECTRICAL CHARACTERISTICS (Ta=25°C, VDD=5.0V±0.25V)**

Item	Symbol	Test Condition	Standard Value			Unit	
			Min.	Typ.	Max.		
Input High Voltage	V <sub>IH</sub>	-	2.2	-	V <sub>DD</sub>	V	
Input Low Voltage	V <sub>IL</sub>	-	-0.3	-	0.6	V	
Output High Voltage	V <sub>OH</sub>	-I <sub>OH</sub> =0.2mA	2.4	-	-	V	
Output Low Voltage	V <sub>OL</sub>	I <sub>OL</sub> =1.2mA	-	-	0.4	V	
Supply Current	I <sub>DD</sub>	V <sub>DD</sub> =5.0V	-	2.0	3.0	mA	
Operating Voltage for LCD	V <sub>DD</sub> - V <sub>0</sub>	Ta=25°C	(STN)	-	5.0	-	V
			(TN)	-	-	-	V