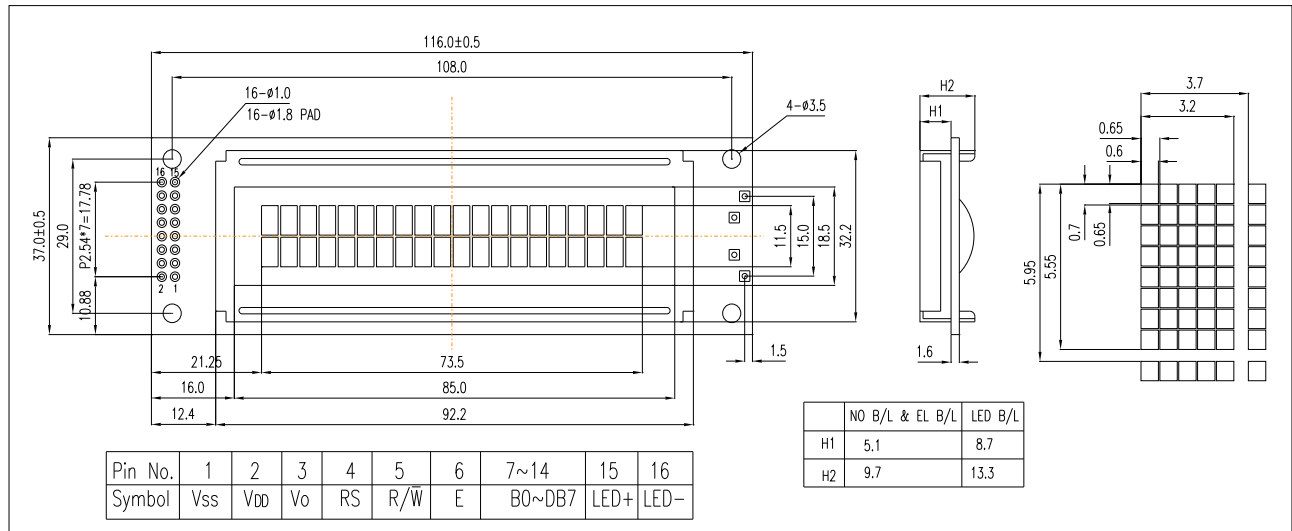
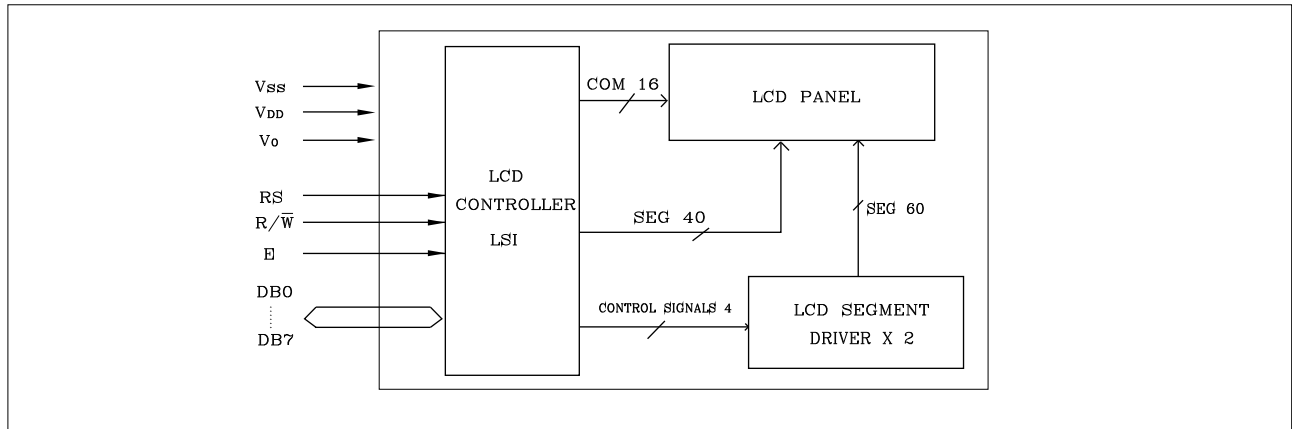


(20 characters X 2 lines)

1.0 DIMENSIONAL DRAWING



2.0 BLOCK DIAGRAM



3.0 MECHANICAL SPECIFICATIONS

Item	Nominal Dimensions	Unit
Module Size (W X H X T1/T2)	116.0 X 37.0 X 9.7/13.3(WITH LED)	mm
Viewing Area (W X H)	85.0 X 18.5	mm
Character Pitch (W X H)	3.70 X 5.95	mm
Character Size (W X H)	3.20 X 5.55	mm
Character Font	5 X 8 DOTS	-
Dot Pitch (W X H)	0.65 X 0.70	mm
Dot Size (W X H)	0.60 X 0.65	mm

4.0 ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$, $V_{DD}=5.0\text{V}\pm 0.25\text{V}$)

Item	Symbol	Test Condition		Standard Value			Unit
				Min.	Typ.	Max.	
Input High Voltage	V _{IH}	—		2.2	—	V _{DD}	V
Input Low Voltage	V _{IL}	—		−0.3	—	0.6	V
Output High Voltage	V _{OH}	−I _{OH} = 0.2mA		2.4	—	—	V
Output Low Voltage	V _{OL}	I _{OL} = 1.2mA		—	—	0.4	V
Supply Current	I _{DD}	V _{DD} = 5.0V		—	2.0	3.0	mA
Operating Voltage for LCD	V _{DD} − V _O	Ta = 25 °C	(STN)	—	4.6	—	V
			(TN)	—	4.6	—	V