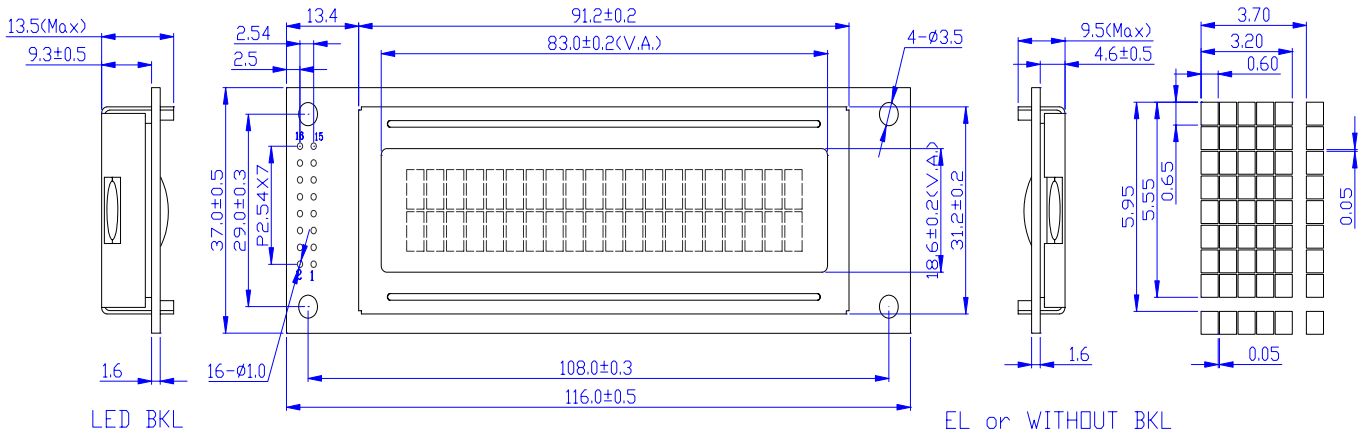
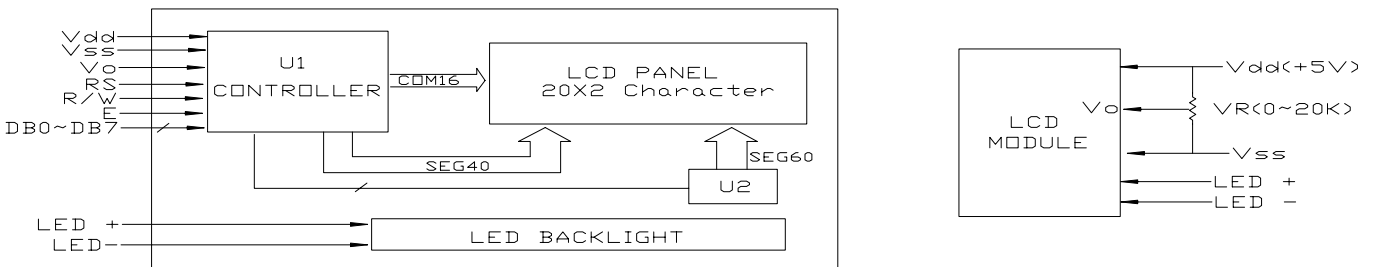


**OUTLINE DIMENSION**



**BLOCK DIAGRAM & POWER SUPPLY**



**MECHANICAL SPEC. & FEATURES**

Item	Dimension(mm)	Features	
Module Size(W × H × T)	116.0X37.0X9.5/13.5	LC Fluid	STN (Yellow-green, Gray, Blue), FSTN
Viewing Area(W × H)	83.0X18.6	Polarizer	Reflective, Transflective, Transmissive
Dot Size(W × H)	0.60X0.65	View Angle	6:00 o'clock or 12:00 o'clock
Dot Pitch(W × H)	0.65X0.70	Display Type	Positive or Negative
Character Size(W × H)	3.2X5.55	Backlight	LED (Optional)
Character Pitch(W × H)	3.7 × 5.95	Operating Temp.	0 ~50 or -20 ~70
		Controller	S6A0069 or Equivalent

**INTERFACE PIN CONNECTIONS**

Pin No.	Symbol	Function	Pin No.	Symbol	Function
1	Vss	Ground for logic	6	E	Enable signal
2	Vdd	Power supply for logic	7~14	DB0~DB7	Data bus lines
3	Vo	Power supply for LCD	15	A	BKL +
4	RS	Register selection (H:Data, L:Instruction)	16	K	BKL -
5	R/W	Read/Write selection (H: R, L: W)			

**ELECTRICAL CHARACTERISTICS**

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Operating Voltage	Vdd	Ta=25	---	5.0	---	V
Operating Voltage for LCD	Vled	Ta=25	---	4.5	---	V
Supply Current	Idd	Ta=25 , Vdd=5.0V	---	2.0	3.0	mA
Supply Voltage for LED	Vf	Ta=25 , R=6.8	---	4.2	---	V
Supply Current for LED	If	Ta=25 , Vf=4.2V	---	200	---	mA