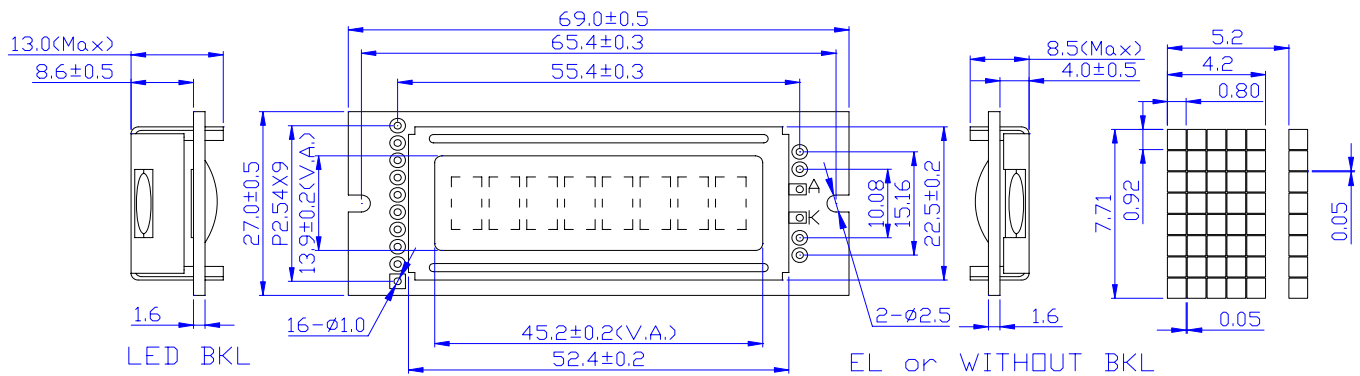
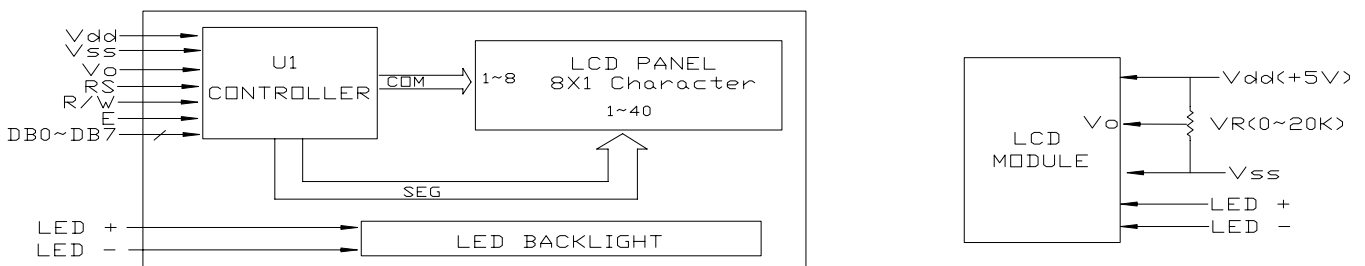


**◆ OUTLINE DIMENSION**

**◆ BLOCK DIAGRAM & POWER SUPPLY**

**◆ MECHANICAL SPEC. & FEATURES**

Item	Dimension(mm)	Features	
Module Size(W×H×T)	69.0×27.0×8.5/13.0	LC Fluid	TN,STN (Yellow-green, Gray, Blue),FSTN
Viewing Area(W×H)	45.2×13.8	Polarizer	Reflective,Transflective,Transmissive
Dot Size(W×H)	0.80×0.92	View Angle	6:00 o'clock or 12:00 o'clock
Dot Pitch(W×H)	0.85×0.97	Display Type	Positive or Negative
Character Size(W×H)	4.20×7.71	Backlight	LED (Optional)
Character Pitch(W×H)	5.2× --	Operating Temp.	0°C~50°C or -20°C~70°C
		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		A	BKL +
4	RS	Register selection(H:Data,L:Instruction)		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°C	---	5.0	---	V
Operating Voltage for LCD	Vled	Ta=25°C	---	4.5	---	V
Supply Current	Idd	Ta=25°C, Vdd=5.0V	---	1.5	3.0	mA
Supply Voltage for LED	Vf	Ta=25°C, R=6.8Ω	---	4.2	---	V
Supply Current for LED	If	Ta=25°C, Vf=4.2V	---	80	---	mA