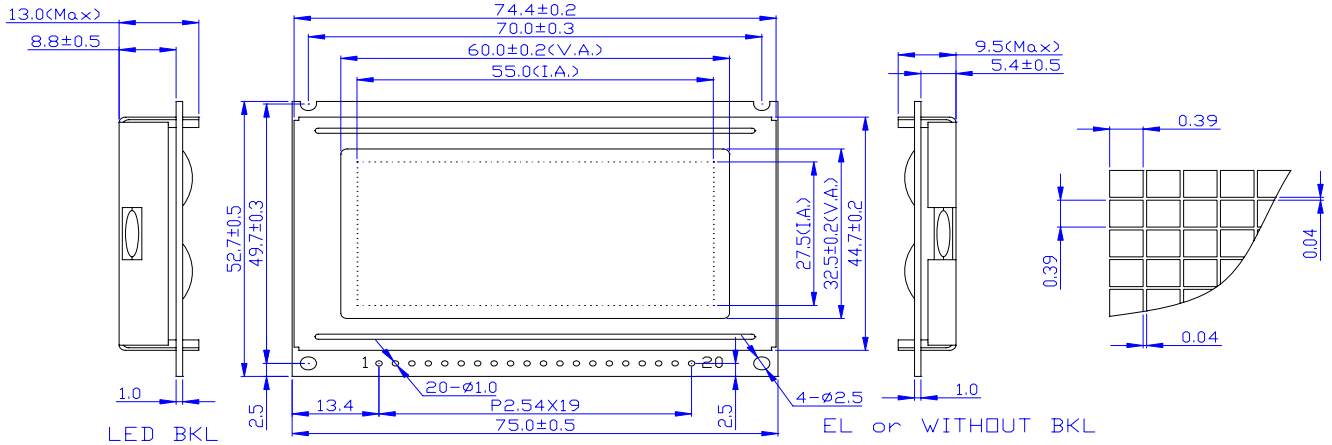
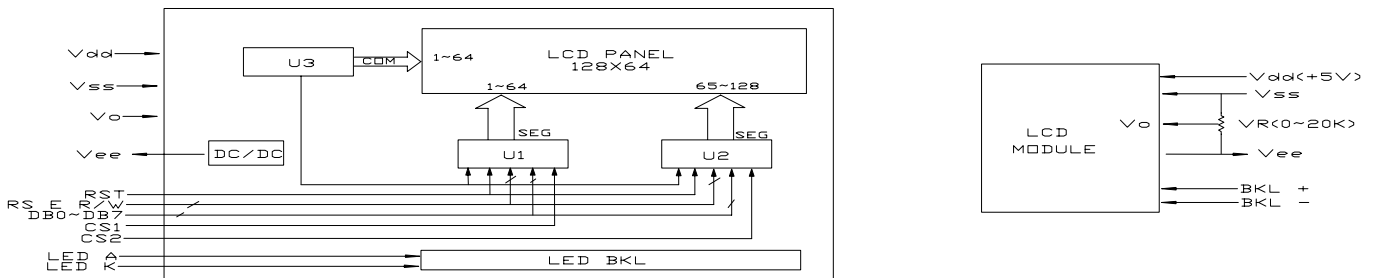


◆ **OUTLINE DIMENSION**



◆ **BLOCK DIAGRAM & POWER SUPPLY**



◆ **MECHANICAL SPEC. & FEATURES**

Item	Dimension(mm)	Features	
Module Size(W×H×T)	75.0×52.7×9.5/13.0	LC Fluid	STN (Yellow-green, Gray, Blue), FSTN
Viewing Area(W×H)	60.0×32.5	Polarizer	Reflective, Transflective, Transmissive
Dot Size(W×H)	0.39×0.39	View Angle	6:00 o'clock or 12:00 o'clock
Dot Pitch(W×H)	0.43×0.43	Display Type	Positive or Negative
Dots×Dots	128×64	Backlight	LED (Optional)
		Operating Temp.	0°C~50°C or -20°C~70°C
		Controller	S6B0108 or Equivalent

◆ **INTERFACE PIN CONNECTIONS**

Pin No.	Symbol	Function	Pin No.	Symbol	Function
1	Vdd	Power supply for logic	15	R/W	Read/Write selection (H: R, L: W)
2	Vss	Ground for logic	16	D/I	Register selection (H:Data, L:Instruction)
3	Vo	Power supply for LCD	17	E	Enable signal
4~11	DB0~DB7	Data bus lines	18	Vee	Negative voltage output
12	CS1	Enable signal for IC1	19	A	BKL +
13	CS2	Enable signal for IC2	20	K	BKL -
14	RST	Reset signal			

◆ **ELECTRICAL CHARACTERISTICS**

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Operating Voltage	Vdd	Ta=25°C	---	5.0	---	V
Operating Voltage for LCD	Vlcd	Ta=25°C	---	10.5	---	V
Supply Current	Idd	Ta=25°C, Vdd=5.0V	---	2.5	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	---	240	---	mA