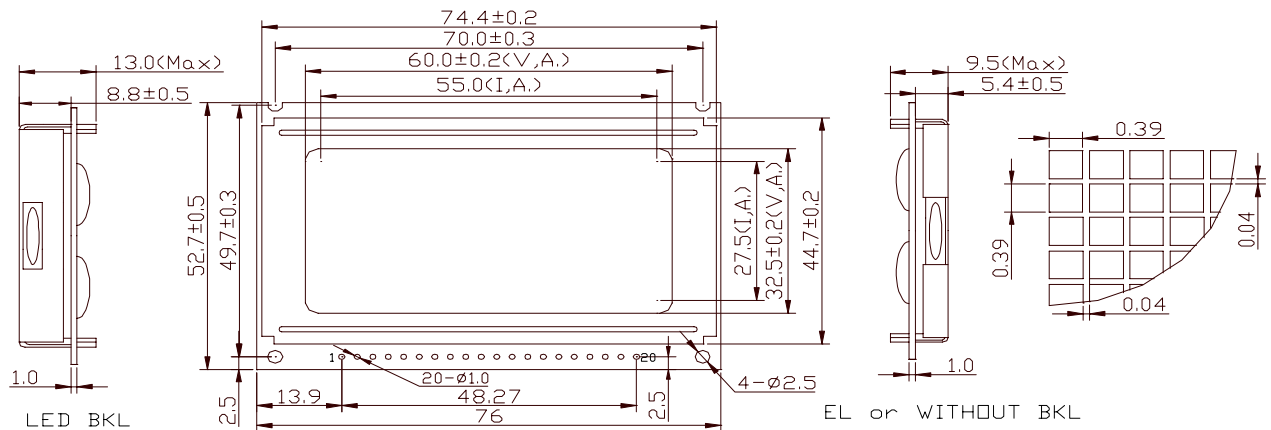
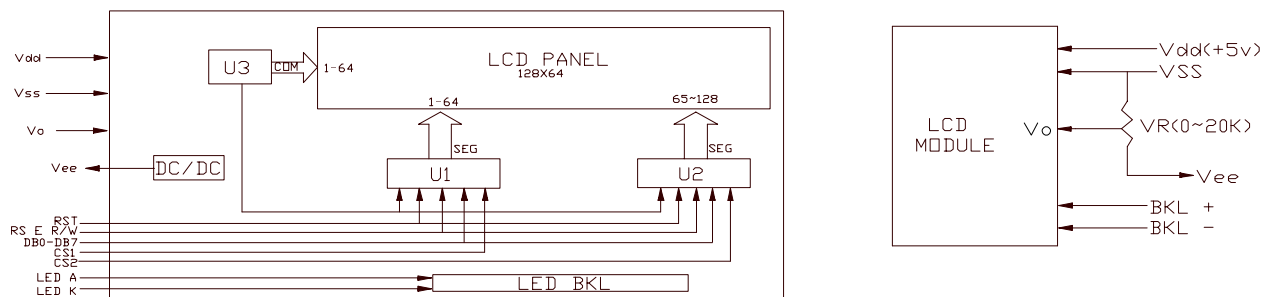


● OUTLINE DIMENSION



● BLOCK DIAGRAM & POWER SUPPLY



● MECHANICAL SPEC.&FEATURES

Item	Dimension(mm)
Module Size(WxHxT)	75.0x52.7x9.5/13.0
Viewing Area(WxH)	60.0x32.5
Dot Size(WxH)	0.39x0.39
Dot Pitch(WxH)	0.43x0.43
DotsxDots	128x64

Features	
LC Fluid	STN (Yellow-green, Gray, Blue), FSTN
Polarizer	Reflective, Transflective, Transmissive
View Angle	6:00 o'clock or 12:00 o'clock
Display Type	Positive or Negative
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
1	Vdd	Power supply for logic
2	Vss	Ground for logic
3	Vo	Power supply for LCD
4~11	DB0~DB7	Data bus lines
12	CS1	Enable signal for IC1
13	CS2	Enable signal for IC2
14	RST	Reset signal

Pin No.	Symbol	Function
15	R/W	Read/Write selection(H:R,L:W)
16	D/I	Register selection(H:Data,L:Instruction)
17	E	Enable signal
18	Vee	Negative voltage output
19	A	BKL+
20	K	BKL-

● 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	...	4.5	...	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	...	300	...	mA