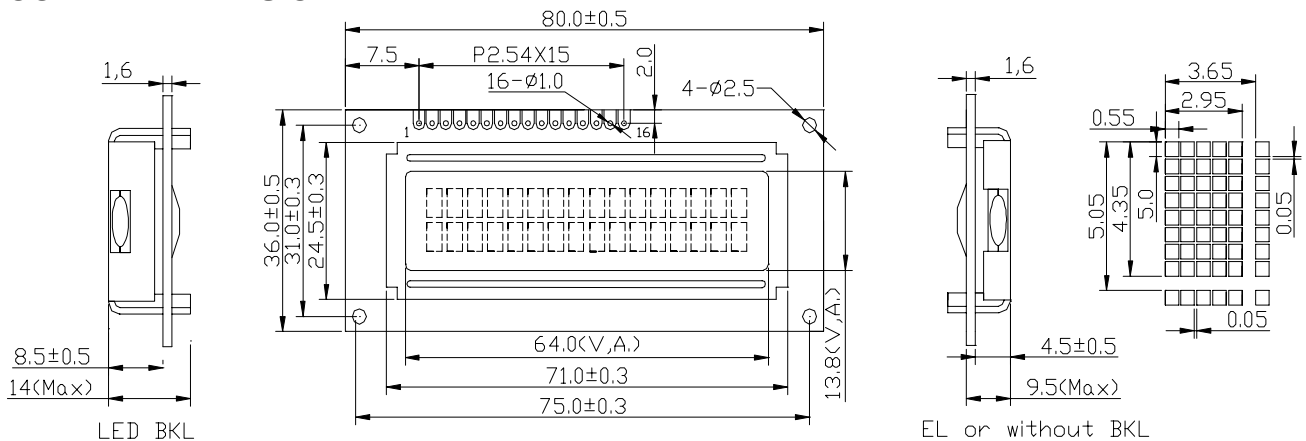
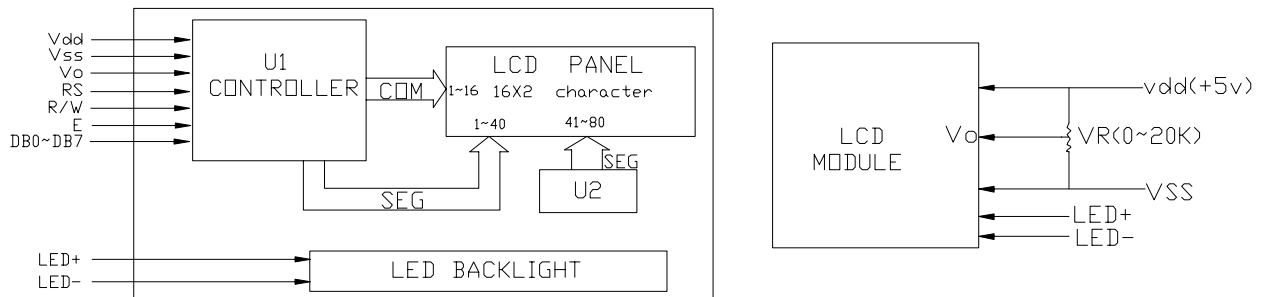


● OUTLINE DIMENSION



● BLOCK DIAGRAM & POWER SUPPLY



● MECHANICAL SPEC.&FEATURES

Item	Dimension(mm)
Module Size(W×H×T)	80.0×36.0×9.5/14.0
Viewing Area(W×H)	64.0×13.8
Dot Size(W×H)	0.55×0.50
Dot Pitch(W×H)	0.60×0.55
Character Size (W×H)	2.95×4.35
Character Pitch(W×H)	3.65×5.05

Features	
LC Fluid	TN,STN(Yellow-green,Gray,Blue),FSTN
Polarizer R	effective,Transflective,Transmissive
View Angle	6:00 o'clock or 12:00 o'clock
Display Type	Positive or Negative
Backlight LE	D(Optional)
Operating Temp.	0℃~50℃ or -20℃~70℃
Controller	S6A0069 or Equivalent

● INTERFACE PIN CONNECTIONS

Pin No.	Symbol	Function
1	Vss	Ground for logic
2	Vdd	Power supply for logic
3	Vo	Power supply for LCD
4 RS		Register selection(H:Data,L:Instruction)
5 R/	W	Read/Write selection(H:R,L:W)

Pin No.	Symbol	Function
6 E		Enable signal
7~14	DB0~DB7	Data bus lines
15 A		BKL+
16 K		BKL-

● ELECTRICAL CHARACTERISTICS

Item	Symbol	Test Condition	Min	Typ.	Max.	Unit
Operating Voltage	Vdd	Ta=25℃	...	5.0	...	V
Operating Voltage for LCD	Vlcd	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=6.8Ω ...	...	4.2	...	V
Supply Current for LED	If	Ta=25℃,Vf=4.2V	... 190	...	...	mA