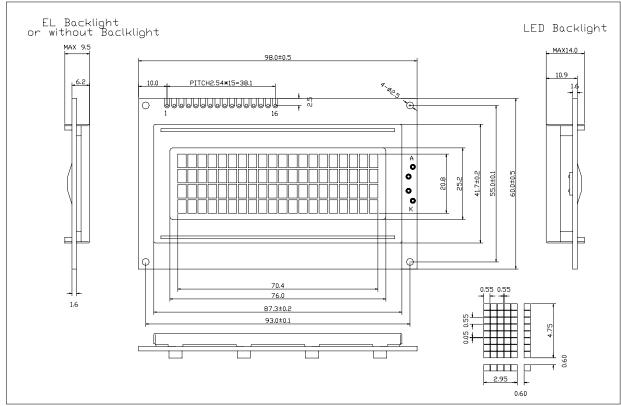
ATM2004D SERIES ----- STANDARD CHARACTER LCD MODULES

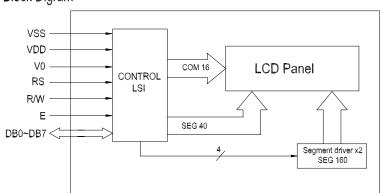
- * 5 x 8 with Cursor Dots
- * View Angle (6:00)
- * 1/16 Duty, 1/5 Bias, 20CHAR x 4LINE
- * LED Backlight (Yellow green)

- * Transflective
- * STN (Yellow green)
- * Controller/Driver (S6A0069)
- * Operating Temp ($-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$)

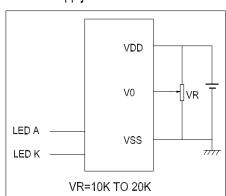
External Dimensions



Block Digram



Power Supply



Mechanical Specifications

Electrical Specifications

Wicchainear Specifications			Dietireal Specifications					
Item	Description(mm)		Item	Symbol	Min	Тур	Max	Unit
Size	98(L)x60(W)x14(H)		Supply Voltage for Logic	Vdd	4.5	5.0	5.5	V
V.A	76(L)x25.2(W)		Supply Voltage for LCD	VLCD	4.0	4.5	5.0	V
Character Pitch	3.55 x 5.35		Supply Current for Logic	IDD		1.0	2.0	mA
Dot Size	0.55*0.55		Supply Current for LED	IF			80	mA

Interface Signals---- J1

interface dignals of							
Pin	Symbol	Level	Description	Pin	Symbol	Level	Description
1	Vss	0V	Ground	7~14	DB0~DB7	H/L	Data Bus Line
2	Vdd	+5V	Supply Voltage for Logic	15	A		Back Light anode:+4.2V
3	V0		Operating Voltage for LCD	16	K		Back Light cathode:0V
4	R/S	H/L	H: Data				
			L: Instruction Code				
5	R/W	H/L	H: Data Read L: Data Write				
6	Е	H,H-L	Enable Signal				