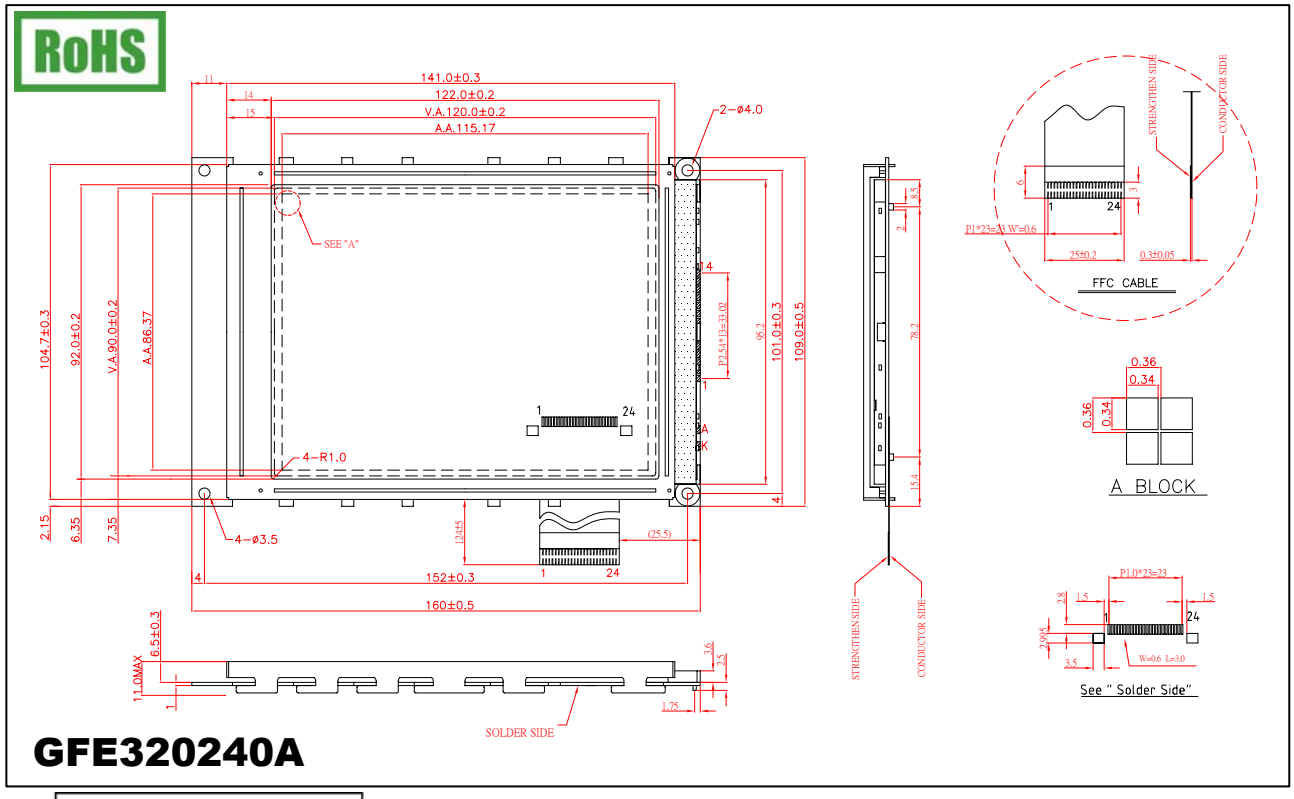

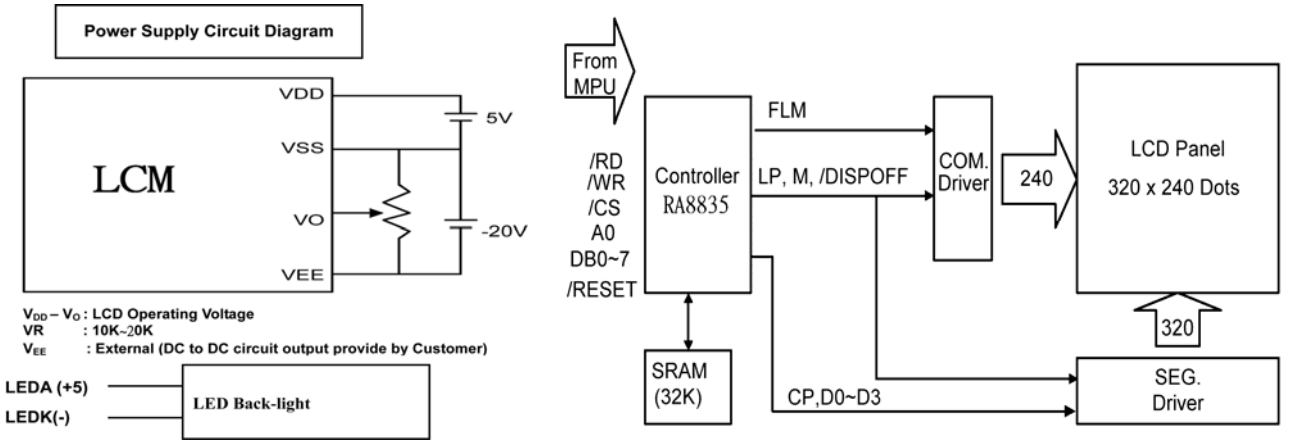

Interface		
Pin no	Symbol	Function
1	/RESET	Enternal reset pin
2	/RD	Data read
3	/WR	Data write
4	/CS1	Data shift
5	A0	Selection of command or data.
6	DB0	Date bus line
7	DB1	Date bus line
8	DB2	Date bus line
9	DB3	Date bus line
10	DB4	Date bus line
11	DB5	Date bus line
12	DB6	Date bus line
13	DB7	Date bus line
14	VDD	Power supply(+)
15	VSS	Power supply (GND)
16	VEE	Negative Voltage
17	V0	Contrast Adjudtment
18	NC	NC
19	NC	NC
20	NC	NC
21	NC	NC
22	NC	NC
23	LEDA	LED B/L (+)
24	NC	NC

Feature			
Controller	RA8835AP4N	Module	160 x 109
Duty	1/240duty	Viewing Area	120 x 90
Bias	1/13 bias	Mounting hole	152 x 101
B/L	WHITE	Character Size	0.34 x 0.34

Absolute Maximum Rating					
I tem	Symbol	Condition	Min	Max	Units
Supply for logic voltage	Vdd-Vss	25˚c	-0.3	7	V
LCD driving supply voltage	Vdd-Vss	25˚c	-0.3	13	V
Input voltage	Vin	25˚c	-0.3	Vdd+0.3	V

Electrical Characteristics						
Item	Symbol	Condition	Min.	Typ.	Max.	Units
Power supply voltage	Vdd-Vss	25˚c	4.5	-	5.5	V
LCD operation voltage	Vop	25˚c	-	22.7	-	V
LED Forward Voltage	VF	25˚c	-	3.2	-	V
LED Forward Current	IF	25˚c	-	160	-	mA