

● **Specifications**

**Display format :**

320× 240dots

**Driving duty : 1/240D**

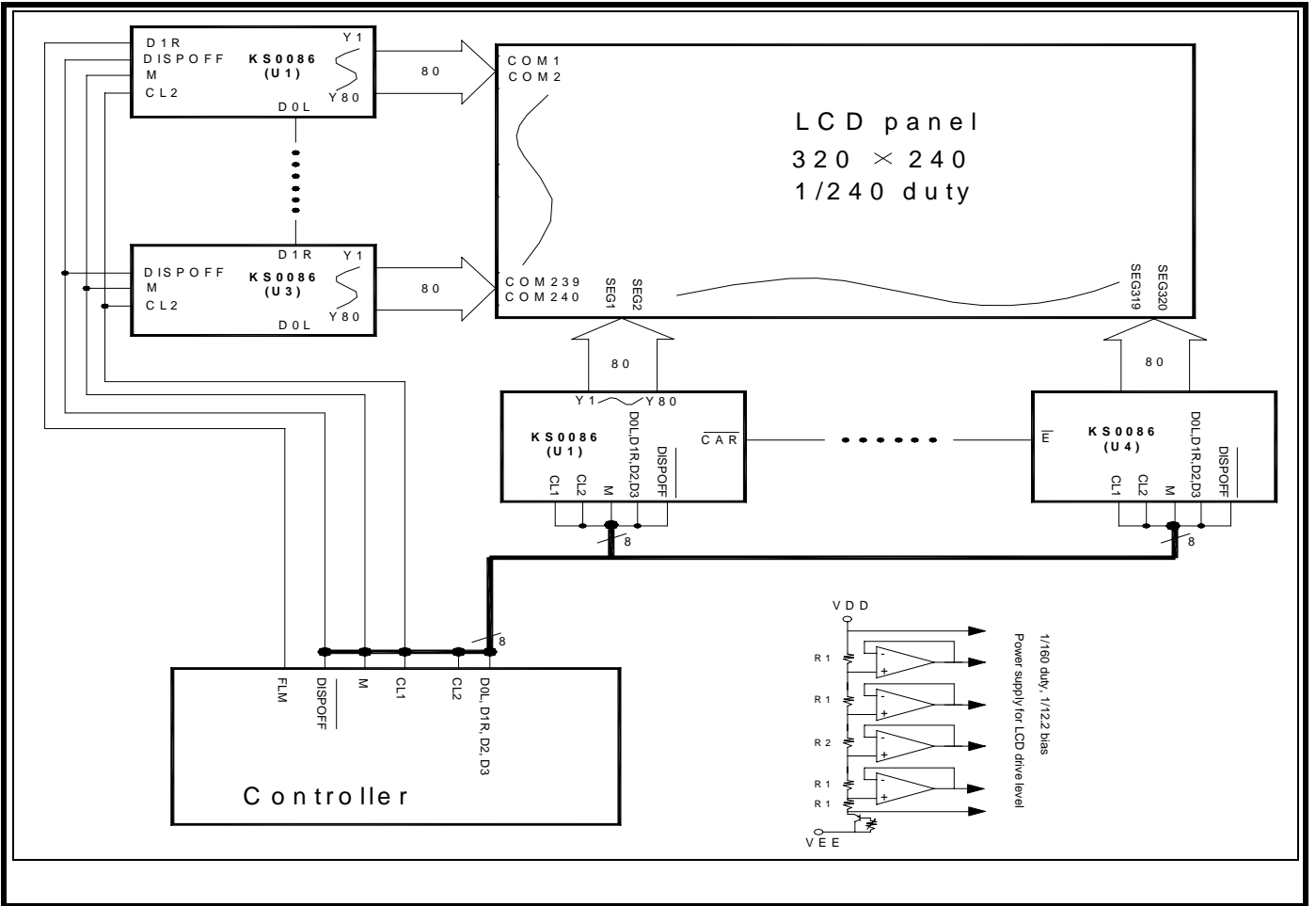
**Provided version :**

Yellow, Gray orB/W modes STN

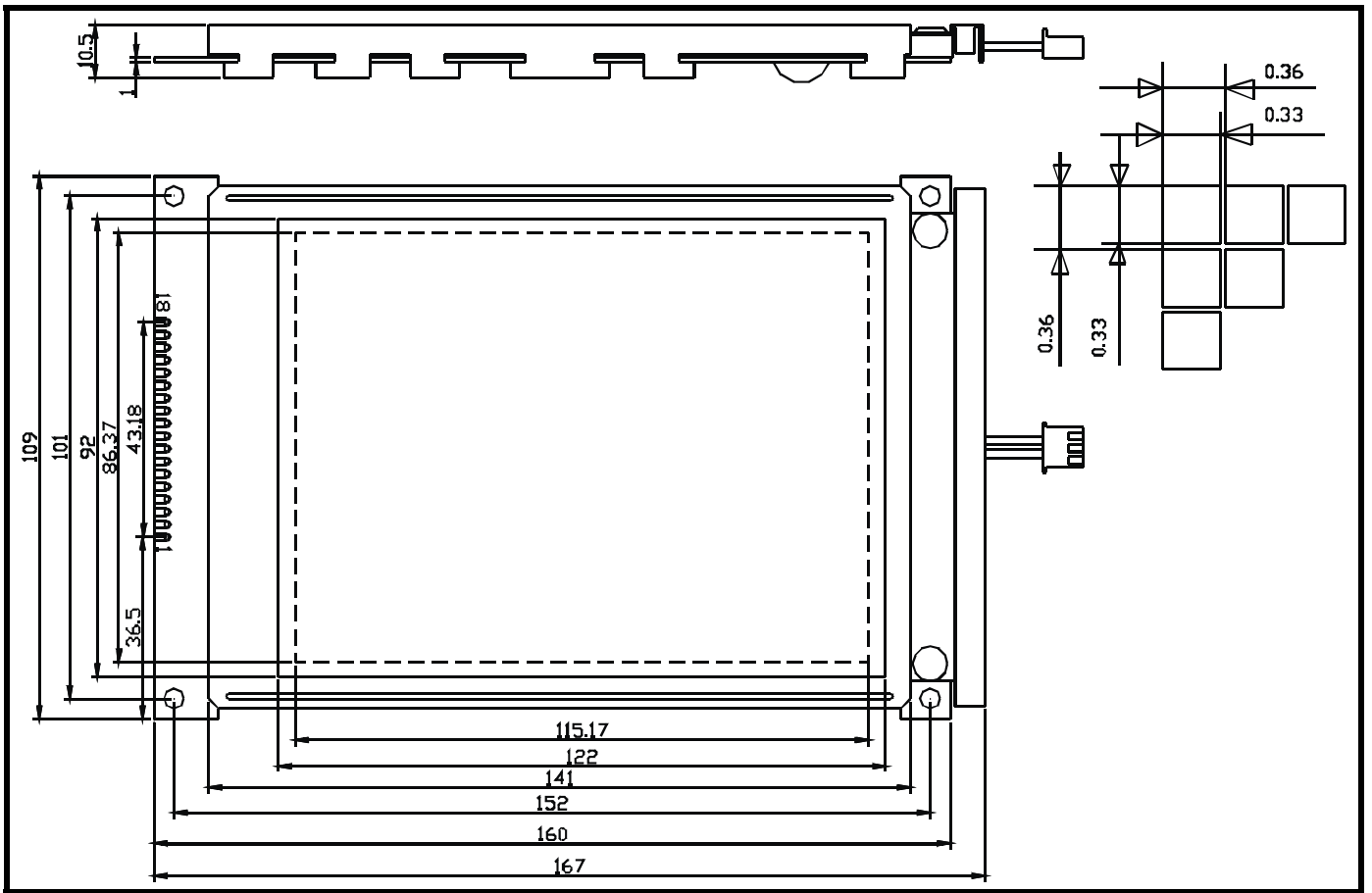
Reflective , With Backlight

EL/100VAC,400Hz; LED/5VDC,CCFL/5V

● **Block Diagram**



● Mechanical Specifications



● **Absolute Max Ratings**

Item	Symbol	Condition	Standard Value		Unit
			Min.	Max.	
Supply Voltage for Logic	$V_{DD}-V_{SS}$	Ta=25°C	0	6.7	V
Supply Voltage for LCD	$V_{DD}-V_{EE}$		-	18.0	V
Input Voltage	$V_I$		0	$V_{DD}$	V
Operating Temperature	Top	-	-20	70	°C
Storage Temperature	Tstg	-	-20	70	°C

● **Electrical Characteristics (Ta=25°C, V<sub>DD</sub>=5.0V±0.25V, V<sub>EE</sub>=-10.00V)**

Item	Symbol	Condition	Standard Value			Unit	
			Min.	Typ.	Max.		
Supply Voltage for	Logic	$V_{DD}-V_{SS}$	-	4.75	5.0	7.0	V
	LCD	$V_{DD}-V_{EE}$	-	23.0	25.0	28.0	V
Supply Current for	Logic	$I_{DD}$	-	-	12.0	-	mA
	LCD	$I_{EE}$	-	-	5.0	-	mA
Input Voltage	'H' Level	$V_{IH}$	High Level	$0.7V_{DD}$	-	$V_{DD}$	V
	'L' Level	$V_{IL}$	Low Level	0	-	$0.3V_{DD}$	V

● **Interface Pin Connection**

Pin No.	Symbol	I/OType	Description
1	$V_{SS}$	Supply	0V (GND)
2	$V_{DD}$	Supply	$V_{DD}-V_{SS}$ : Power supply for logic circuit and LCD(5V)
3	V0		Contrast Adjustment input
4	A0	Supply	Data type Selection
5	/WR	Input	Write signal input
6	/RD	Input	Read signal input
7	DB0		Data type select
8	DB1		Input for reset signal
9	DB2		Data type select
10	DB3		Data type select
11	DB4		Data type select
12	DB5		Data type select
13	DB6		Data type select
14	DB7		Data type select
15	CS		Chip select signal
16	/RST		Input for reset signal
17	VOUT	Supply	Supply voltage for LCD(-23V---28V)
18	SEL1		H: 6800 L: 8080
19	<u>LEDA</u>		<u>LED5V</u>
20	<u>LEDK</u>		<u>LED-</u>