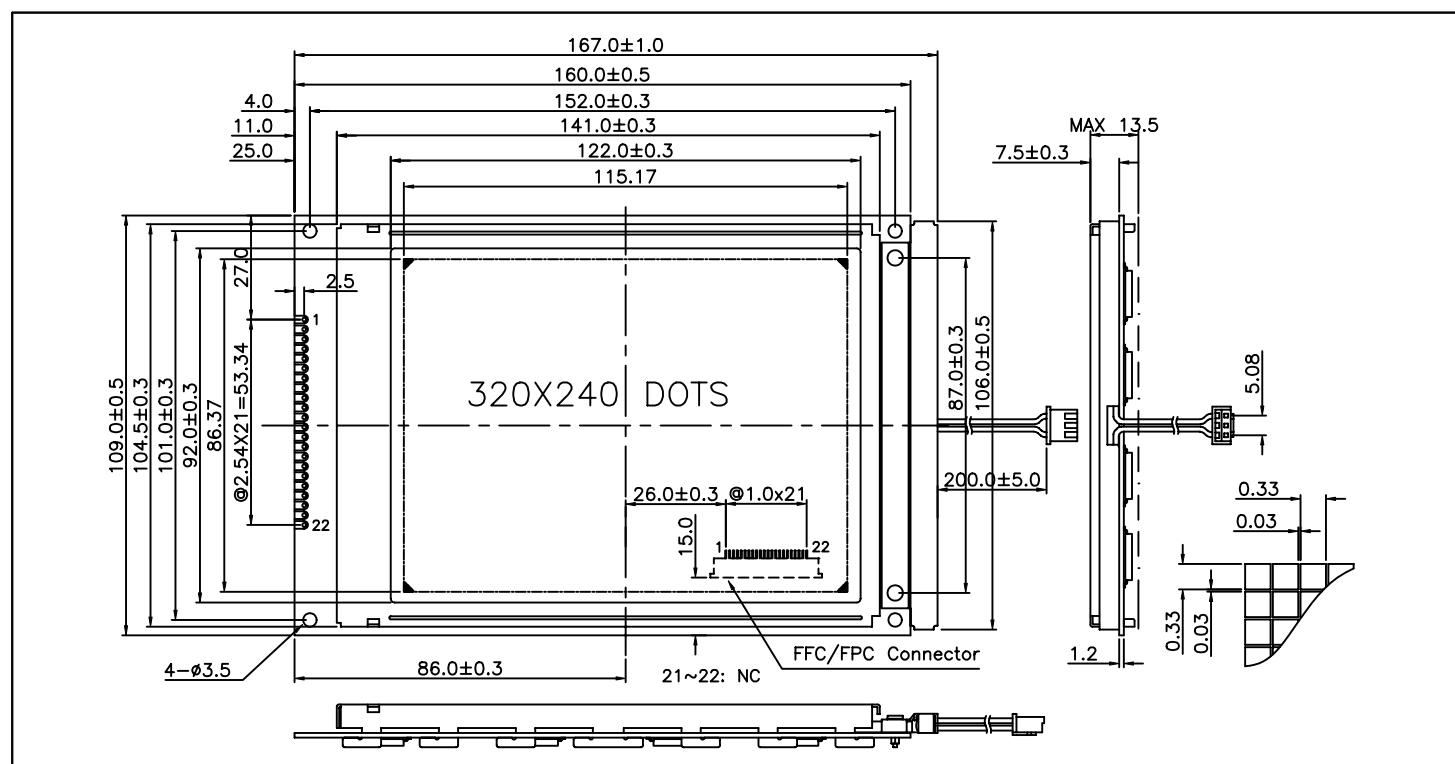


320X240 dots



ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	V _{DD} - V _{SS}	-0.3	7.0	V
Supply Voltage(LCD)	V _{DD} - V _O	-0.3	30.0	V
Input Voltage	V _I	-0.3	V _{DD} + 0.3	V
Operating Temp.	T _{opr}	0	50	°C
Storage Temp.	T _{stg}	-20	70	°C

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	167.0 x 109.0 x 13.5	mm
Viewing Area (W x H)	122.0 x 92.0	mm
Dot Pitch (W x H)	0.36 x 0.36	mm
Dot Size (W x H)	0.33 x 0.33	mm
Weight	Approx. 230	g

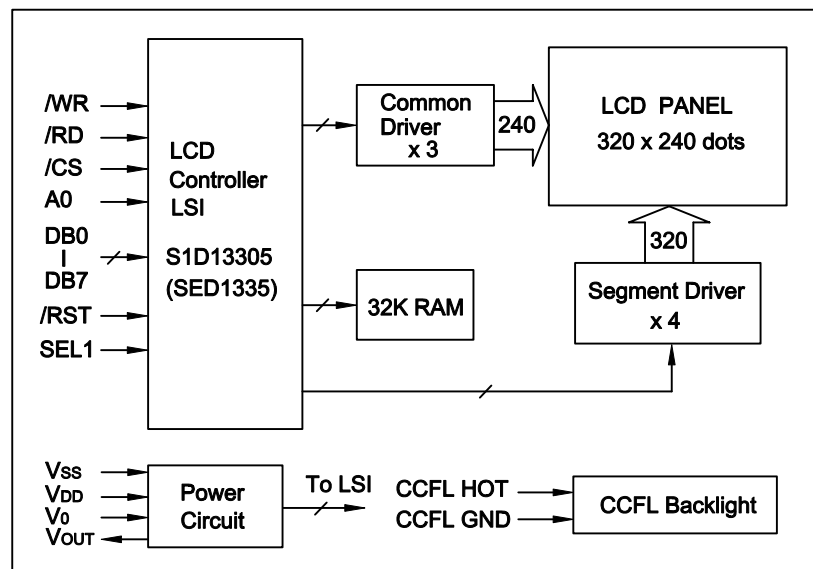
ELECTRICAL CHARACTERISTICS ($V_{DD}=5V\pm0.25V$)

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	—	0.5V _{DD}	—	V _{DD}	V
Input Low Voltage	V _{IL}	—	0	—	0.2V _{DD}	V
Output High Voltage	V _{OH}	—	2.4	—	V _{DD}	V
Output Low Voltage	V _{OL}	—	0	—	0.4	V
Supply Current	I _{DD}	V _{DD} = 5.0V	—	40.0	60.0	mA
LCD Driving Voltage	V _{DD} - V _O	T _a =25°C	—	22.6	—	V

PIN CONNECTIONS

Pin	Symbol	Level	Function
1	V _{SS}	0V	GND
2	V _{DD}	+5V	Power supply for logic
3	V _O	—	Operating voltage for LCD
4	A0	H/L	L : Data H : Instruction code
5	/WR(R/W)	H/L	/WR for 80 MPU, R/W for 68 MPU
6	/RD(E)	H/L	/RD for 80 MPU, E for 68 MPU
7	DB0	H/L	Data bus line
8	DB1	H/L	
9	DB2	H/L	
10	DB3	H/L	
11	DB4	H/L	
12	DB5	H/L	
13	DB6	H/L	
14	DB7	H/L	
15	/CS	H/L	Chip enable singal, active "L"
16	/RST	H/L	Reset signal, active "L"
17	V _{OUT}	-20V	Output voltage for LCD driving
18	SEL1	H/L	L: 8080 MPU H: 6800 MPU
19	NC	--	No connection
20	NC	--	No connection

BLOCK DIAGRAM



CCFL BACKLIGHT SPECIFICATIONS (Ta=25°C)

Item	Symbol	Typ.	Max.	Unit
Tube voltage	V	300	--	V
Tube Current	I	5	--	mA
Emission Wave Length	λ_p	--	--	nm