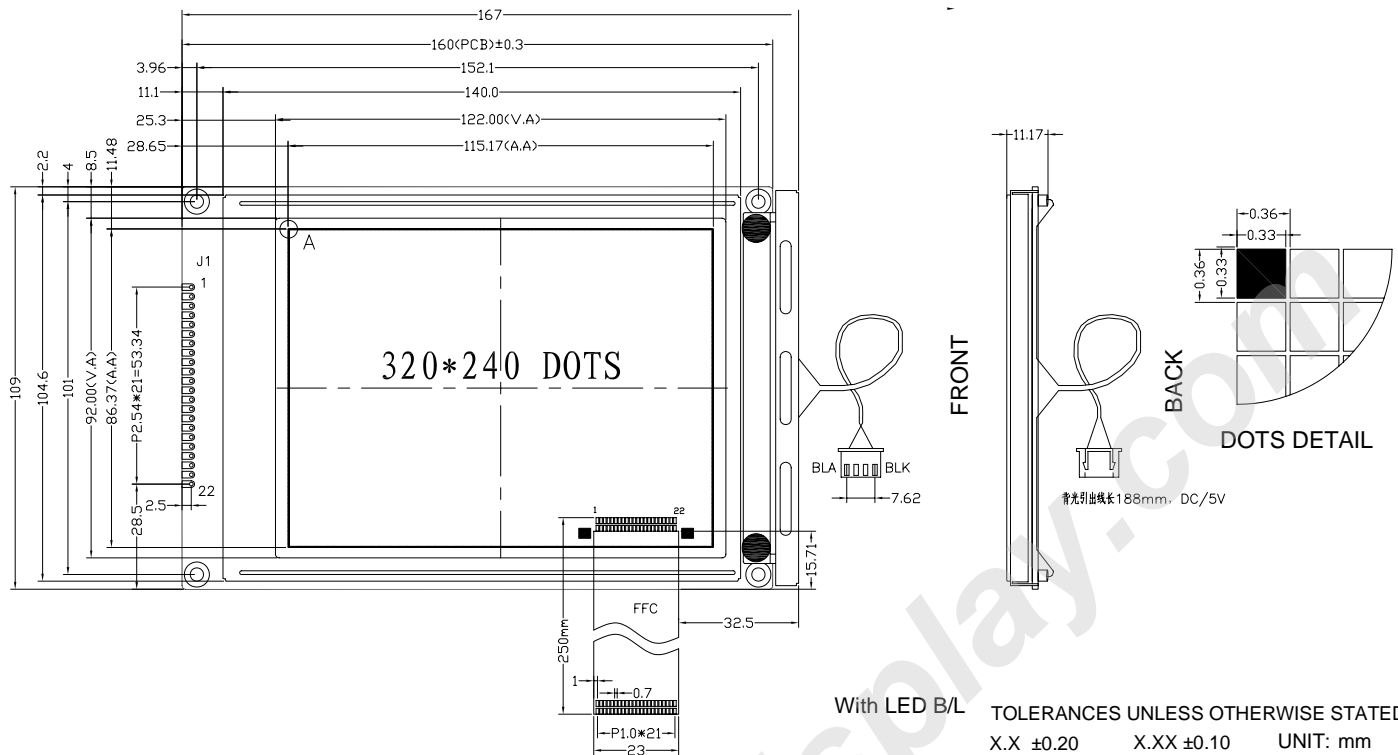


Dimension Drawing



Feature:

1. 320 x 240 Dots graphic display
2. Built-in controller(RA8835P or equivalent)
3. +5V Power supply(also available for +3.3V)
4. 1/240 Duty cycle
5. STN or FSTN Mode
6. Internal character generator font
7. Match all kind colors of LED back light
8. ROHS compliant

Interface Pin Connections

PIN NO.	Symbol	Function
1	VSS	GND
2	VDD	+5V or +3.3V
3	V0	Contrast adjustment
4	A0	H → Data L → Instruction
5	/WR	Write enable signal
6	/RD	Read enable signal
7	DB0	H/L Data bus line
8	DB1	H/L Data bus line
9	DB2	H/L Data bus line
10	DB3	H/L Data bus line
11	DB4	H/L Data bus line
12	DB5	H/L Data bus line
13	DB6	H/L Data bus line
14	DB7	H/L Data bus line
15	/CS	Chip enable signal
16	/RST	Reset signal
17	VOUT	Negative voltage output
18	SEL1	SEL1=0 Interface 8080; SEL1=1 Interface 6800
19	LEDA	Power supply for B/L(LED+)
20	LEDK	Power supply for B/L(LED-)
21	NC	No connection
22	NC	No connection

Mechanical Data

Item	Standard	Unit
Module dimension	167.0 x 109.0	mm
Viewing area	122.0 x 92.0	mm
Mounting hole	152.1 x 101.0	mm
Dots size	0.33 x 0.33	mm

Absolute Maximum Rating

Item	Symbol	Standard			Unit
		Min	Typ	Max	
Power supply	VDD-VSS	-0.3	---	7.0	V
Input voltage	VI	-0.3	---	VDD+0.3	

Electrical Characteristics

Item	Symbol	Condition	Standard			Unit
			Min	Typ	Max	
Input voltage	VDD	+5.0V	4.5	5.0	5.5	V
		+3.3V	2.7	3.3	4.5	
Supply current	I _{DD}	VDD=5V	----	----	0.5	mA
Recommended LCD driving voltage for normal temp version module	VDD-V0 (VDD=5V)	-20 °C	18.8	19.0	19.2	V
		0 °C	18.5	18.7	19.0	
		25 °C	18.2	18.5	18.8	
		50 °C	18.0	18.3	18.5	
LED forward voltage	VF	25 °C	----	3.0	3.3	V
			----	3.0	3.3	
LED forward current	IF	25 °C Edge	----	160	180	mA
EL power supply	I _{EL}	V _{EL} =110V AC 400Hz	----	----	5.0	mA