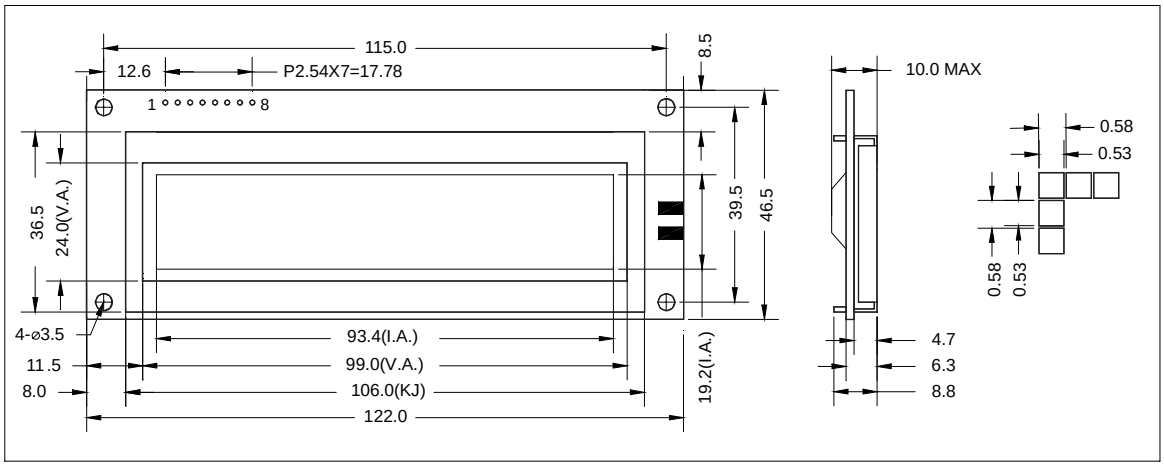
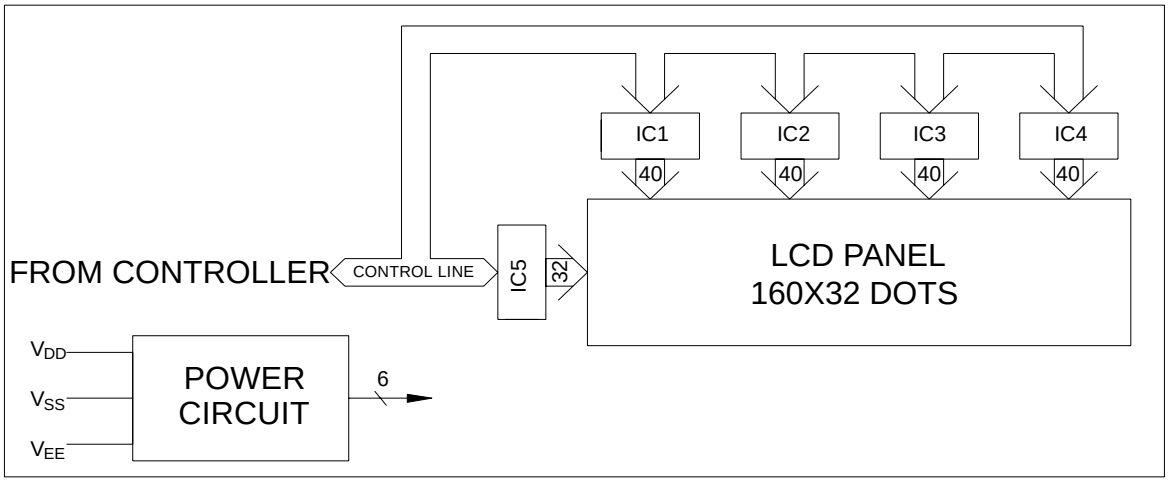
1. 0 Features

* Display Mode: Reflective/Transflective/Transmissive and Positive Type STN
* Input Data: 8-Bits Parallel Data Input from a MPU
* Assembly: SMT
* Backlight: Optional

2. 0 External Dimensions



3. 0 Block Diagram



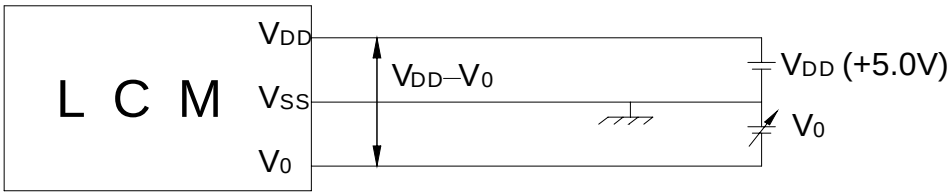
4. 0 Maximum Rating

Item	Symbol	Test Condition	Standard Value		Unit
			Min.	Max.	
Supply Voltage for Logic	V_{DD}–V_{SS}	Ta=25 °C	0	6.0	V
Supply Voltage for LCD	V_{DD}–V_{EE}		0	6.0	V
Input Voltage	V_I		0	V_{DD}	V
Operating Temperature	Topr	—	0	+50	°C
Storage Temperature	Tstg	—	–10	+60	°C

5. 0 Electro-Optical Characteristics

Item		Symbol	Conditions	Standard Value			Unit
				Min.	Typ.	Max.	
Power Supply for Logic	Logic	Vdd	—	4.5	5.0	5.5	V
	LCD Drive	Vdd-Vee		—	—	6.0	
Frame Frequency		f FLM	Vdd=5.0V	65	70	75	Hz
Current Consumption		Idd	Vdd=5.0V, Vdd-V0=5.0 V/R=160Kohm	—	—	2.0	mA
LCD Driving Voltage(Recommended)		Vdd-V0	Ta=25℃; Ø,θ =0°	6.0	6.5	7.0	V
Response Time(Rising)		Tr	Ta=25℃; Ø,θ =0°	—	250	300	ms
Response Time(Decay)		Td		—	300	350	ms
Viewing Angle		Ø2-Ø1	K≥2	0	—	45	DEG.
Contrast Ratio		K	Ø=0° , θ =0°	2.0	5.0	—	—

6. 0 Power Supply for LCM



VDD –V0 : LCD Driving Voltage

7. 0 I/O Connection

Pin No	Symbol	Level	Descri ption
1	FLM	H	Indicates the beginning of each display cycle
2	MB	H/L	Control signal for AC driving
3	CL1	H/L	Control signal for latching data
4	D01	H/L	Data bit
5	CL2	H/L	Control signal for latching data
6	VDD	5.0V	Power supply for logic and LCD
7	GND	0V	Ground
8	V0	—	Supply voltage of LCD drive