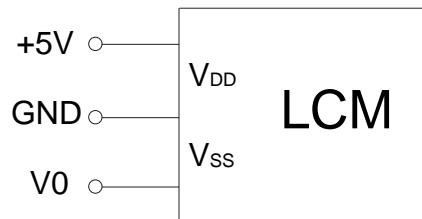


5.0 Electro-Optical Characteristics

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		—	5.0	—	
Frame Frequency	f FLM	Vdd=5.0V	60	65	70	Hz	
Current Consumption	Idd	Vdd=5.0V, Vdd-V0=5.0 f FLM=75Hz	—	—	2.0	mA	
LCD Driving Voltage(Recommended)	Vdd-V0	Ta=25 °C; ϕ , $\theta=0^\circ$	—	5.0	—	V	
Response Time(Rising)	Tr	Ta=25 °C; ϕ , $\theta=0^\circ$	—	200	250	ms	
Response Time(Decay)	Td		—	250	300	ms	
Viewing Angle	$\phi 2-\phi 1$	$K \geq 2$	-10	—	45	DEG.	
Contrast Ratio	K	$\phi=0^\circ$, $\theta=0^\circ$	2.0	5.0	—	—	

6.0 Power Supply for LCM



7.0 I/O Connection

Pin No	Symbol	Level	Function
1	VSS	—	Ground
2	VDD	—	Power supply for logical circuit (5V).
3	V0	—	Power supply for LCD driving.
4	A0	H/L	MPU inputs transfer data/instruction selection signal.
5	/CSL	L	Leftchip select signal input terminal.
6	/CSR	H/L	rightchip select signal input terminal.
7	CL	—	Display data latch signal input terminal.
8	E(/RD)	H/L	Chip enable signal
9	R/W(/WR)	H/L	Read/Write control signal input terminal.
10~17	D0~D7	H/L	Tri-state bilateral Data Bus.
18	/RST	H/L	Reset and interface type select terminal.
19	LEDA	—	LED backlight power supply (+)
20	LEDK	—	LED backlight power supply (-)