



DC CHARACTERISTICS

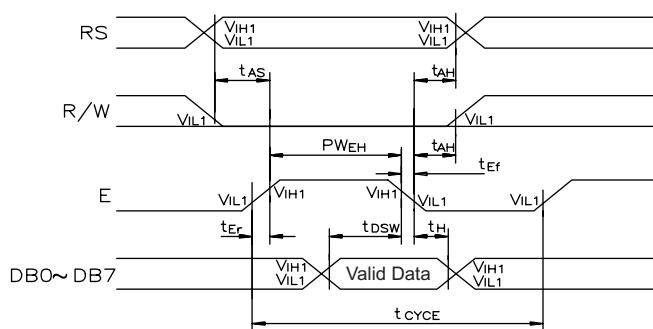
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT	APPLICABLE TERMINAL
			MIN	TYP	MAX		
Power Supply Voltage	V_{DD}		4.5	5	5.5	V	V_{DD}
Input "H" Level Voltage	V_{IH1}		2.2	-	V_{DD}	V	RS,R \bar{W} ,E,DB ₀ ~DB ₇
Input "L" Level Voltage	V_{IL1}		-0.3	-	0.6	V	
Output "H" Level Voltage	V_{OH}	$I_{OH}=0.205\text{ mA}$	2.4	-	-	V	DB ₀ ~DB ₇
Output "L" Level Voltage	V_{OL}	$I_{OL}=1.2\text{ mA}$	-	-	0.4	V	
Input Leakage Current	I_{LI}	$V_{IN}=0\sim V_{DD}$	-1	-	1	μA	RS,R \bar{W} ,E,DB ₀ ~DB ₇
Power Supply current	I_{DD}	$V_{DD}=5\text{V}$	-	-	3	mA	V_{DD}
LCD Power Supply Voltage	V_{LCD}	$V_{DD}-V_0$	3	-	-	V	V_0

AC CHARACTERISTICS

ITEM	SYMBOL	MIN	MAX	UNIT
Enable Cycle Time	t_{CYCE}	500	-	ns
Enable Pulse Width	"High Level" P_{WEH}	230	-	ns
Enable Rise/Fall Time	t_{ER}, t_{EF}	-	20	ns
Address Set-up Time	RS,R \bar{W} to E t_{AS}	40	-	ns
Address Hold Time	t_{AH}	10	-	ns
Data Set-up Time	t_{DSW}	80	-	ns
Data delay Time	t_{DDR}	-	160	ns
Data Hold Time (Writing)	t_H	10	-	ns
Data Hold Time (Reading)	t_{DHR}	5	-	ns
Clock Oscillation Frequency	f_{OSC}	270 (TYP.)		KHz

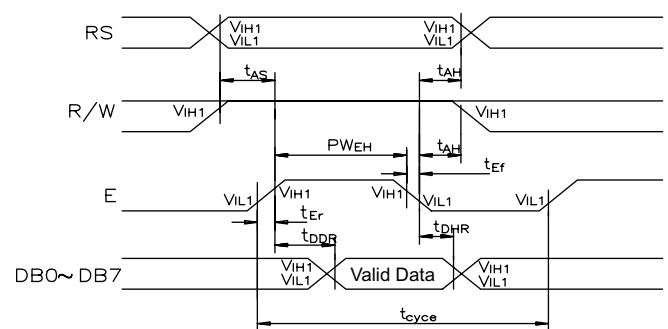
TIMING CHARACTERISTICS

FIG.1 WRITE OPERATION



(Write Data from MPU to MODULE)

FIG.2 READ OPERATION



(Read Data from MODULE to MPU)