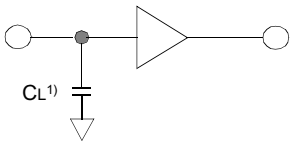
AC OPERATING CONDITIONS

TEST CONDITIONS (Test Load and Test Input/Output Reference)

Input pulse level : 0.8 to 2.4V
Input rising and falling time : 5ns
Input and output reference voltage : 1.5V
Output load (See right) :C_L=100pF+1TTL
C_L=50pF+1TTL



1. Including scope and jig capacitance

AC CHARACTERISTICS (V_{CC}=4.5~5.5V, K6T0808C1D-L Family:T_A=0 to 70°C, K6T0808C1D-P Family:T_A=-40 to 85°C)

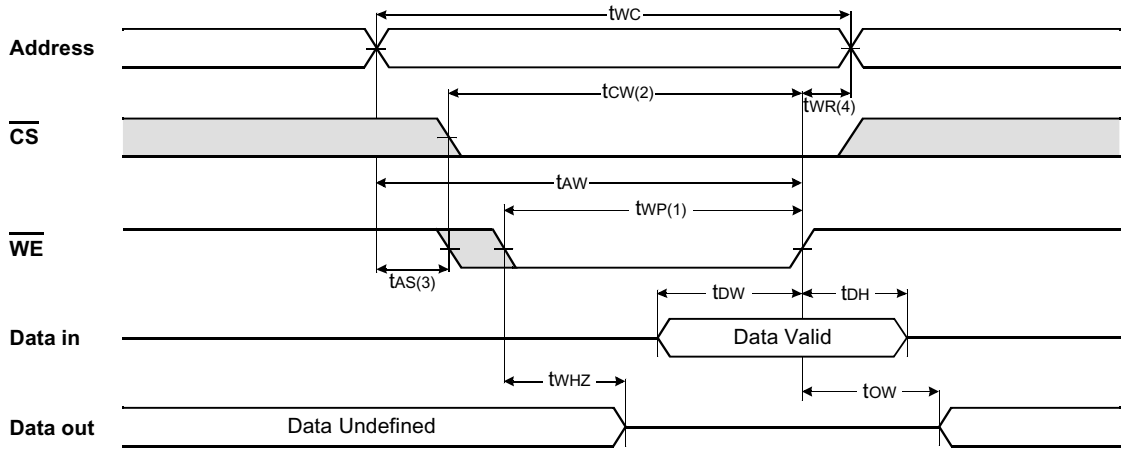
Parameter List		Symbol	Speed Bins				Units
			55[1]ns		70ns		
			Min	Max	Min	Max	
Read	Read cycle time	t_{RC}	55	-	70	-	ns
	Address access time	t_{AA}	-	55	-	70	ns
	Chip select to output	t_{CO}	-	55	-	70	ns
	Output enable to valid output	t_{OE}	-	25	-	35	ns
	Chip select to low-Z output	t_{LZ}	10	-	10	-	ns
	Output enable to low-Z output	t_{OLZ}	5	-	5	-	ns
	Chip disable to high-Z output	t_{HZ}	0	20	0	30	ns
	Output disable to high-Z output	t_{OHZ}	0	20	0	30	ns
	Output hold from address change	t_{OH}	10	-	10	-	ns
Write	Write cycle time	t_{WC}	55	-	70	-	ns
	Chip select to end of write	t_{CW}	45	-	60	-	ns
	Address set-up time	t_{AS}	0	-	0	-	ns
	Address valid to end of write	t_{AW}	45	-	60	-	ns
	Write pulse width	t_{WP}	40	-	50	-	ns
	Write recovery time	t_{WR}	0	-	0	-	ns
	Write to output high-Z	t_{WHZ}	0	20	0	25	ns
	Data to write time overlap	t_{DW}	25	-	30	-	ns
	Data hold from write time	t_{DH}	0	-	0	-	ns
	End write to output low-Z	t_{OW}	5	-	5	-	ns

1. The parameter is tested with 50pF test load.

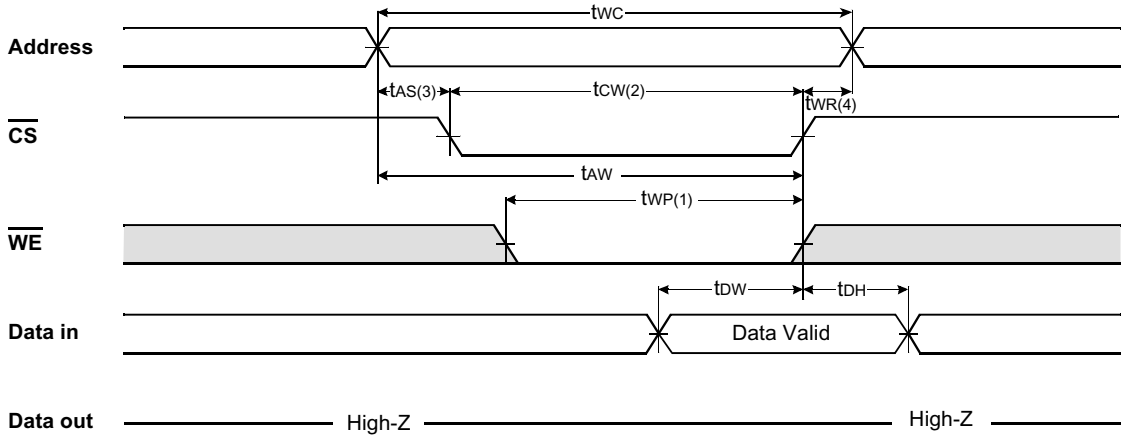
DATA RETENTION CHARACTERISTICS

Item	Symbol	Test Condition		Min	Typ	Max	Unit
Vcc for data retention	V_{DR}	$\overline{CS}$≥Vcc-0.2V		2.0	-	5.5	V
Data retention current	I_{DR}	Vcc=3.0V, $\overline{CS}$≥Vcc-0.2V	L-Ver	-	1	15	µA
			LL-Ver	-	0.2	3	
Data retention set-up time	t_{SDR}	See data retention waveform		0	-	-	ms
Recovery time	t_{RDR}			5	-	-	

TIMING WAVEFORM OF WRITE CYCLE(1) (WE Controlled)



TIMING WAVEFORM OF WRITE CYCLE(2) ($\overline{CS}$ Controlled)



NOTES (WRITE CYCLE)

1. A write occurs during the overlap of a low $\overline{CS}$ and a low $\overline{WE}$. A write begins at the latest transition among $\overline{CS}$ going Low and $\overline{WE}$ going low : A write end at the earliest transition among $\overline{CS}$ going high and $\overline{WE}$ going high, t_{WP} is measured from the begining of write to the end of write.
2. t_{CW} is measured from the $\overline{CS}$ going low to end of write.
3. t_{AS} is measured from the address valid to the beginning of write.
4. t_{WR} is measured from the end of write to the address change. t_{WR} applied in case a write ends as $\overline{CS}$ or $\overline{WE}$ going high.

DATA RETENTION WAVE FORM

$\overline{CS}$ controlled