

36Mb Sync. Burst SRAM Specification

100LQFP with Pb / Pb-Free
(RoHS compliant)

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Document Title

1Mx36 & 2Mx18-Bit Synchronous Burst SRAM

Revision History

<u>Rev.No.</u>	<u>History</u>	<u>Draft Date</u>	<u>Remark</u>
0.0	1. Initial draft	Jan. 26. 2006	Advance
0.1	1. Add the overshoot timing	Feb. 16. 2006	Preliminary
0.2	1. Change ordering information	Apr. 04. 2006	Preliminary
1.0	1. Finalize the datasheet	July. 14. 2006	Final
1.1	1. Change the package type	Mar. 12. 2008	Final

K7B323635C
K7B321835C

1Mx36 & 2Mx18 Synchronous SRAM

36Mb SB SRAM Ordering Information

Org.	VDD (V)	Speed (ns)	Access Time (ns)	Part Number	RoHS Avail.
2Mx18	3.3/2.5	8.5	7.5	K7B321835C-P(Q) ¹ C(I) ² 75	√
1Mx36	3.3/2.5	8.5	7.5	K7B323635C-P(Q) ¹ C(I) ² 75	√

Note 1. P(Q) [Package type] : P-Pb Free, Q-Pb

2. C(I) [Operating Temperature] : C-Commercial, I-Industrial

1Mx36 & 2Mx18-Bit Synchronous Burst SRAM

FEATURES

- Synchronous Operation.
- On-Chip Address Counter.
- Self-Timed Write Cycle.
- On-Chip Address and Control Registers.
- $V_{DD} = 2.5$ or $3.3V \pm 5\%$ Power Supply.
- 5V Tolerant Inputs Except I/O Pins.
- Byte Writable Function.
- Global Write Enable Controls a full bus-width write.
- Power Down State via ZZ Signal.
- LBO Pin allows a choice of either a interleaved burst or a linear burst.
- Three Chip Enables for simple depth expansion with No Data Contention only for LQFP.
- Asynchronous Output Enable Control.
- ADSP, ADSC, ADV Burst Control Pins.
- TTL-Level Three-State Output.
- 100-LQFP-1420A (Lead and Lead free package)
- Operating in commercial and industrial temperature range.

GENERAL DESCRIPTION

The K7B323635C and K7B321835C are 37,748,736-bit Synchronous Static Random Access Memory designed for high performance second level cache of Pentium and Power PC based System.

It is organized as 1M(2M) words of 36(18) bits and integrates address and control registers, a 2-bit burst address counter and added some new functions for high performance cache RAM applications; GW, BW, LBO, ZZ. Write cycles are internally self-timed and synchronous.

Full bus-width write is done by $\overline{GW}$, and each byte write is performed by the combination of $\overline{WEx}$ and $\overline{BW}$ when $\overline{GW}$ is high. And with $\overline{CS}_1$ high, $\overline{ADSP}$ is blocked to control signals.

Burst cycle can be initiated with either the address status processor(ADSP) or address status cache controller(ADSC) inputs. Subsequent burst addresses are generated internally in the system's burst sequence and are controlled by the burst address advance($\overline{ADV}$) input.

$\overline{LBO}$ pin is DC operated and determines burst sequence(linear or interleaved).

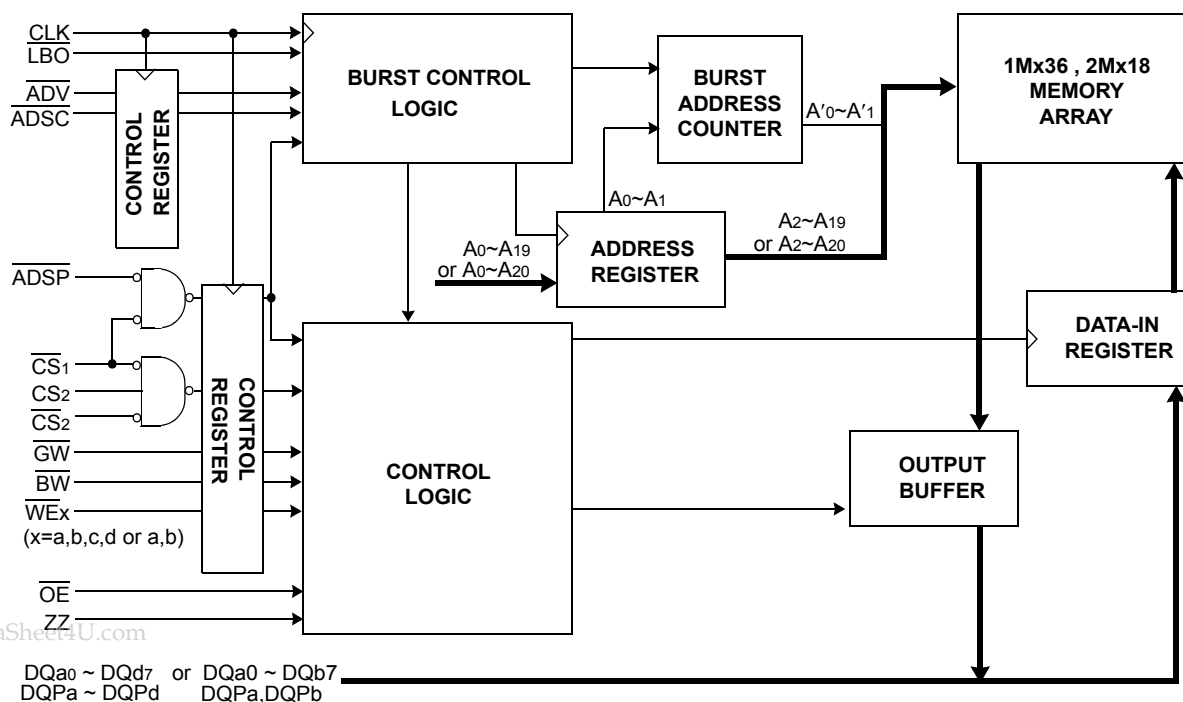
ZZ pin controls Power Down State and reduces Stand-by current regardless of CLK.

The K7B323635C and K7B321835C are fabricated using SAMSUNG's high performance CMOS technology and is available in a 100pin LQFP package. Multiple power and ground pins are utilized to minimize ground bounce.

FAST ACCESS TIMES

PARAMETER	Symbol	-75	Unit
Cycle Time	t _{CYC}	8.5	ns
Clock Access Time	t _{CD}	7.5	ns
Output Enable Access Time	t _{OE}	3.5	ns

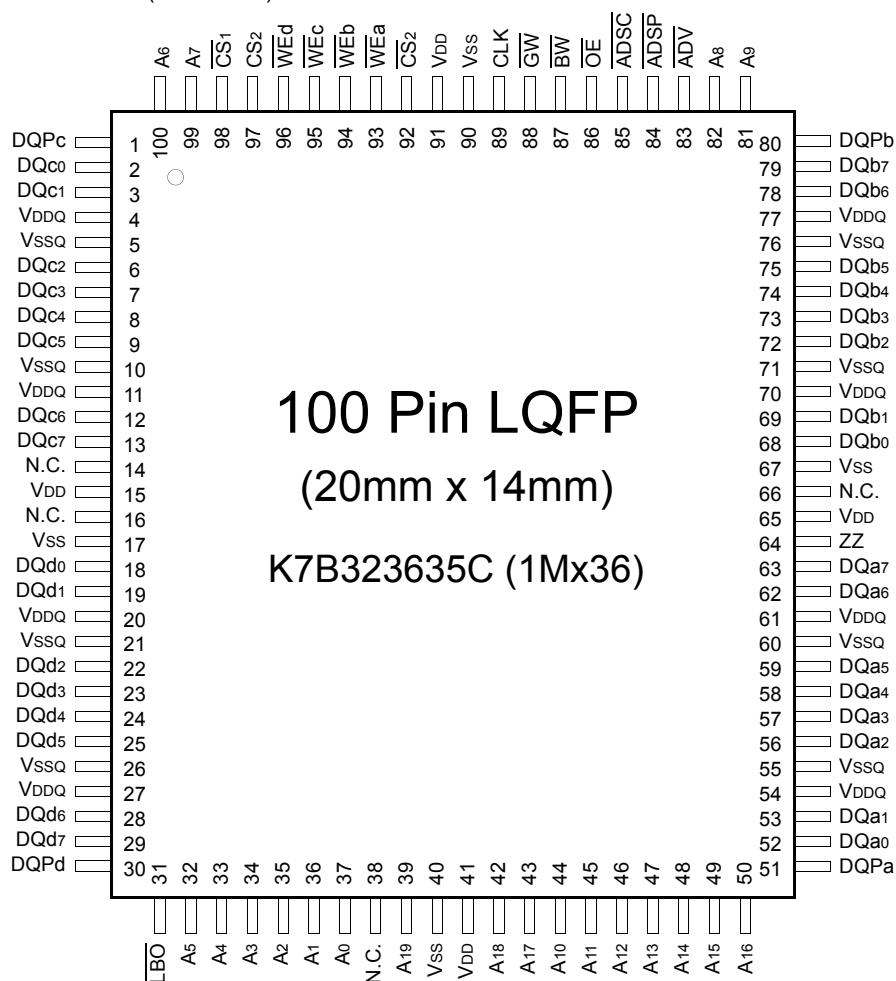
LOGIC BLOCK DIAGRAM



K7B323635C K7B321835C

1Mx36 & 2Mx18 Synchronous SRAM

PIN CONFIGURATION(TOP VIEW)



PIN NAME

SYMBOL	PIN NAME	LQFP PIN NO.	SYMBOL	PIN NAME	LQFP PIN NO.
A0 - A19	Address Inputs	32,33,34,35,36,37,39,42,43,44,45,46,47,48,49,50,81,82,99,100	VDD	Power Supply(+3.3V)	15,41,65,91
			VSS	Ground	17,40,67,90
ADV	Burst Address Advance	83	N.C.	No Connect	14,16,38,66
ADSP	Address Status Processor	84			
ADSC	Address Status Controller	85	DQa0~a7	Data Inputs/Outputs	52,53,56,57,58,59,62,63
CLK	Clock	89	DQb0~b7		68,69,72,73,74,75,78,79
CS1	Chip Select	98	DQc0~c7		2,3,6,7,8,9,12,13
CS2	Chip Select	97	DQd0~d7		18,19,22,23,24,25,28,29
CS2	Chip Select	92	DQPa~Pd		51,80,1,30
WEx(x=a,b,c,d)	Byte Write Inputs	93,94,95,96			
OE	Output Enable	86	VDDQ	Output Power Supply (2.5V or 3.3V)	4,11,20,27,54,61,70,77
GW	Global Write Enable	88	VSSQ	Output Ground	5,10,21,26,55,60,71,76
BW	Byte Write Enable	87			
ZZ	Power Down Input	64			
LBO	Burst Mode Control	31			

Notes : 1. A0 and A1 are the two least significant bits(LSB) of the address field and set the internal burst counter if burst is desired.

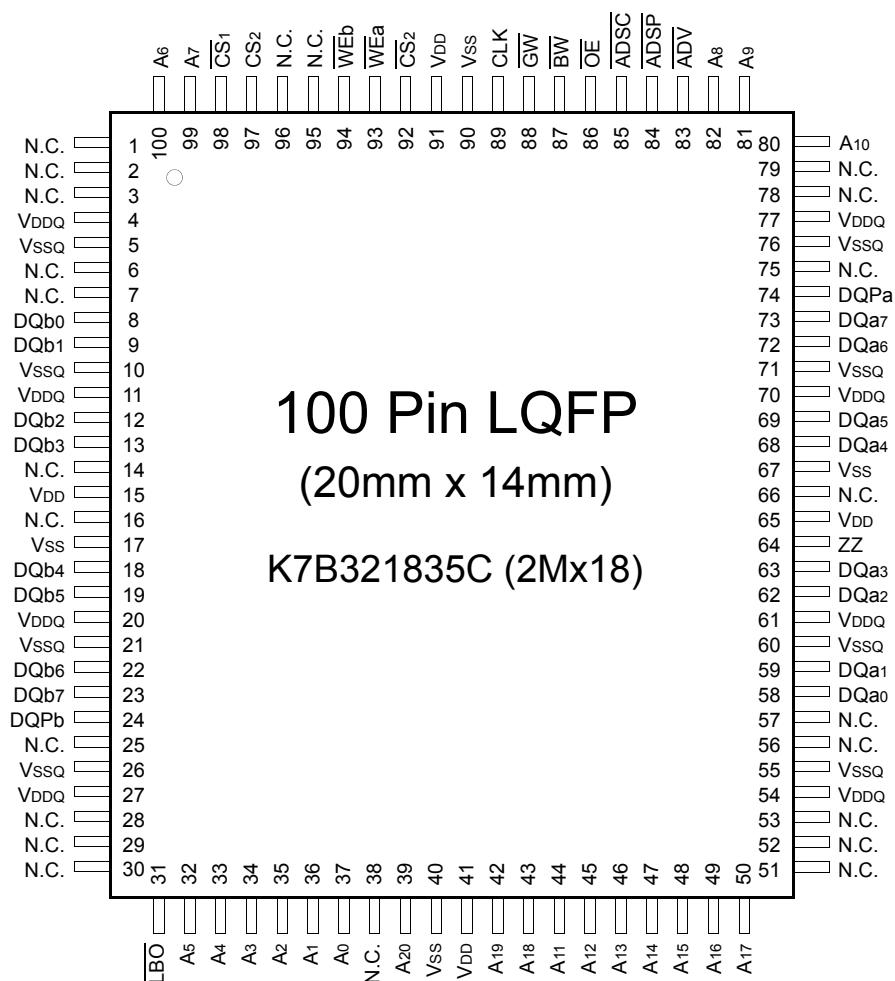


ELECTRONICS

K7B323635C K7B321835C

1Mx36 & 2Mx18 Synchronous SRAM

PIN CONFIGURATION(TOP VIEW)



PIN NAME

SYMBOL	PIN NAME	LQFP PIN NO.	SYMBOL	PIN NAME	LQFP PIN NO.
A0 - A20	Address Inputs	32,33,34,35,36,37,39,42,43,44,45,46,47,48,49,50,80,81,82,99,100	VDD	Power Supply(+3.3V)	15,41,65,91
			VSS	Ground	17,40,67,90
			N.C.	No Connect	1,2,3,6,7,14,16,25,28,29,30,38,51,52,53,56,57,66,75,78,79,95,96
ADV	Burst Address Advance	83	DQa0 ~ a7	Data Inputs/Outputs	58,59,62,63,68,69,72,73
ADSP	Address Status Processor	84	DQb0 ~ b7		8,9,12,13,18,19,22,23
ADSC	Address Status Controller	85	DQPa, Pb		74,24
CLK	Clock	89			
CS1	Chip Select	98			
CS2	Chip Select	97			
CS2	Chip Select	92			
WEx(x=a,b)	Byte Write Inputs	93,94	VDDQ	Output Power Supply (2.5V or 3.3V)	4,11,20,27,54,61,70,77
OE	Output Enable	86	VSSQ	Output Ground	5,10,21,26,55,60,71,76
GW	Global Write Enable	88			
BW	Byte Write Enable	87			
ZZ	Power Down Input	64			
LBO	Burst Mode Control	31			

Notes : 1. A0 and A1 are the two least significant bits(LSB) of the address field and set the internal burst counter if burst is desired.



ELECTRONICS

FUNCTION DESCRIPTION

The K7B323635C and K7B321835C are synchronous SRAM designed to support the burst address accessing sequence of the Power PC based microprocessor. All inputs (with the exception of $\overline{OE}$, LBO and ZZ) are sampled on rising clock edges. The start and duration of the burst access is controlled by $\overline{ADSC}$, $\overline{ADSP}$ and $\overline{ADV}$ and chip select pins.

The accesses are enabled with the chip select signals and output enabled signals. Wait states are inserted into the access with $\overline{ADV}$.

When ZZ is pulled high, the SRAM will enter a Power Down State. At this time, internal state of the SRAM is preserved. When ZZ returns to low, the SRAM normally operates after 2cycles of wake up time. ZZ pin is pulled down internally.

Read cycles are initiated with $\overline{ADSP}$ (or $\overline{ADSC}$) using the new external address clocked into the on-chip address register when both $\overline{GW}$ and $\overline{BW}$ are high or when $\overline{BW}$ is low and $\overline{WEa}$, $\overline{WEb}$, $\overline{WEc}$, and $\overline{WEd}$ are high. When $\overline{ADSP}$ is sampled low, the chip selects are sampled active, and the output buffer is enabled with $\overline{OE}$. the data of cell array accessed by the current address are projected to the output pins.

Write cycles are also initiated with $\overline{ADSP}$ (or $\overline{ADSC}$) and are differentiated into two kinds of operations; All byte write operation and individual byte write operation.

All byte write occurs by enabling $\overline{GW}$ (independent of $\overline{BW}$ and $\overline{WEx}$), and individual byte write is performed only when $\overline{GW}$ is high and $\overline{BW}$ is low. In K7B163635C, a 512Kx36 organization, $\overline{WEa}$ controls DQa0 ~ DQa7 and DQPa, $\overline{WEb}$ controls DQb0 ~ DQb7 and DQPb, $\overline{WEc}$ controls DQc0 ~ DQc7 and DQPC and $\overline{WEd}$ controls DQd0 ~ DQd7 and DQPD.

$\overline{CS_1}$ is used to enable the device and conditions internal use of $\overline{ADSP}$ and is sampled only when a new external address is loaded.

$\overline{ADV}$ is ignored at the clock edge when $\overline{ADSP}$ is asserted, but can be sampled on the subsequent clock edges. The address increases internally for the next access of the burst when $\overline{ADV}$ is sampled low.

Addresses are generated for the burst access as shown below, The starting point of the burst sequence is provided by the external address. The burst address counter wraps around to its initial state upon completion. The burst sequence is determined by the state of the LBO pin. When this pin is Low, linear burst sequence is selected. And this pin is High, Interleaved burst sequence is selected.

BURST SEQUENCE TABLE

(Interleaved Burst)

$\overline{\text{LBO PIN}}$	HIGH	Case 1		Case 2		Case 3		Case 4	
		A ₁	A ₀	A ₁	A ₀	A ₁	A ₀	A ₁	A ₀
First Address		0	0	0	1	1	0	1	1
↓		0	1	0	0	1	1	1	0
		1	0	1	1	0	0	0	1
		1	1	1	0	0	1	0	0
Fourth Address									

(Linear Burst)

$\overline{\text{LBO PIN}}$	LOW	Case 1		Case 2		Case 3		Case 4	
		A ₁	A ₀	A ₁	A ₀	A ₁	A ₀	A ₁	A ₀
First Address		0	0	0	1	1	0	1	1
↓		0	1	1	0	1	1	0	0
		1	0	1	1	0	0	0	1
		1	1	0	0	0	1	1	0
Fourth Address									

Note : 1. LBO pin must be tied to High or Low, and Floating State must not be allowed.

TRUTH TABLES

SYNCHRONOUS TRUTH TABLE

$\overline{CS}_1$	CS_2	$\overline{CS}_2$	$\overline{ADSP}$	$\overline{ADSC}$	$\overline{ADV}$	$\overline{WRITE}$	CLK	ADDRESS ACCESSED	OPERATION
H	X	X	X	L	X	X	↑	N/A	Not Selected
L	L	X	L	X	X	X	↑	N/A	Not Selected
L	X	H	L	X	X	X	↑	N/A	Not Selected
L	L	X	X	L	X	X	↑	N/A	Not Selected
L	X	H	X	L	X	X	↑	N/A	Not Selected
L	H	L	L	X	X	X	↑	External Address	Begin Burst Read Cycle
L	H	L	H	L	X	L	↑	External Address	Begin Burst Write Cycle
L	H	L	H	L	X	H	↑	External Address	Begin Burst Read Cycle
X	X	X	H	H	L	H	↑	Next Address	Continue Burst Read Cycle
H	X	X	X	H	L	H	↑	Next Address	Continue Burst Read Cycle
X	X	X	H	H	L	L	↑	Next Address	Continue Burst Write Cycle
H	X	X	X	H	L	L	↑	Next Address	Continue Burst Write Cycle
X	X	X	H	H	H	H	↑	Current Address	Suspend Burst Read Cycle
H	X	X	X	H	H	H	↑	Current Address	Suspend Burst Read Cycle
X	X	X	H	H	H	L	↑	Current Address	Suspend Burst Write Cycle
H	X	X	X	H	H	L	↑	Current Address	Suspend Burst Write Cycle

- Notes :** 1. X means "Don't Care".
2. The rising edge of clock is symbolized by ↑.
3. $\overline{WRITE} = L$ means Write operation in WRITE TRUTH TABLE.
 $\overline{WRITE} = H$ means Read operation in WRITE TRUTH TABLE.
4. Operation finally depends on status of asynchronous input pins($\overline{ZZ}$ and $\overline{OE}$).

WRITE TRUTH TABLE (x36)

$\overline{GW}$	$\overline{BW}$	$\overline{WEa}$	$\overline{WEb}$	$\overline{WEc}$	$\overline{WEd}$	OPERATION
H	H	X	X	X	X	READ
H	L	H	H	H	H	READ
H	L	L	H	H	H	WRITE BYTE a
H	L	H	L	H	H	WRITE BYTE b
H	L	H	H	L	L	WRITE BYTE c and d
H	L	L	L	L	L	WRITE ALL BYTEs
L	X	X	X	X	X	WRITE ALL BYTEs

- Notes :** 1. X means "Don't Care".
2. All inputs in this table must meet setup and hold time around the rising edge of CLK(↑).

WRITE TRUTH TABLE (x18)

$\overline{GW}$	$\overline{BW}$	$\overline{WEa}$	$\overline{WEb}$	OPERATION
H	H	X	X	READ
H	L	H	H	READ
H	L	L	H	WRITE BYTE a
H	L	H	L	WRITE BYTE b
H	L	L	L	WRITE ALL BYTEs
L	X	X	X	WRITE ALL BYTEs

- Notes :** 1. X means "Don't Care".
2. All inputs in this table must meet setup and hold time around the rising edge of CLK(↑).

ASYNCHRONOUS TRUTH TABLE

Operation	ZZ	$\overline{OE}$	I/O STATUS
Sleep Mode	H	X	High-Z
Read	L	L	DQ
	L	H	High-Z
Write	L	X	Din, High-Z
Deselected	L	X	High-Z

Notes

1. X means "Don't Care".
2. ZZ pin is pulled down internally
3. For write cycles that following read cycles, the output buffers must be disabled with $\overline{OE}$, otherwise data bus contention will occur.
4. Sleep Mode means power down state of which stand-by current does not depend on cycle time.
5. Deselected means power down state of which stand-by current depends on cycle time.

ABSOLUTE MAXIMUM RATINGS*

PARAMETER	SYMBOL	RATING	UNIT
Voltage on VDD Supply Relative to Vss	VDD	-0.3 to 4.6	V
Voltage on VDDQ Supply Relative to Vss	VDDQ	VDD	V
Voltage on Input Pin Relative to Vss	VIN	-0.3 to VDD+0.3	V
Voltage on I/O Pin Relative to Vss	VIO	-0.3 to VDDQ+0.3	V
Power Dissipation	PD	1.6	W
Storage Temperature	TSTG	-65 to 150	°C
Operating Temperature	Commercial	TOPR	0 to 70
	Industrial	TOPR	-40 to 85
Storage Temperature Range Under Bias	TBIAS	-10 to 85	°C

***Note :** Stresses greater than those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions above those indicated in the operating sections of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect reliability.

OPERATING CONDITIONS

PARAMETER	SYMBOL	MIN	Typ.	MAX	UNIT
Supply Voltage	VDD1	2.375	2.5	2.625	V
	VDDQ1	2.375	2.5	2.625	V
	VDD2	3.135	3.3	3.465	V
	VDDQ2	3.135	3.3	3.465	V
Ground	Vss	0	0	0	V

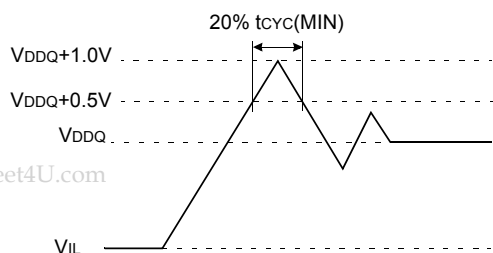
Notes: 1. The above parameters are also guaranteed at industrial temperature range.
2. It should be $VDDQ \leq VDD$.

CAPACITANCE* (TA=25°C, f=1MHz)

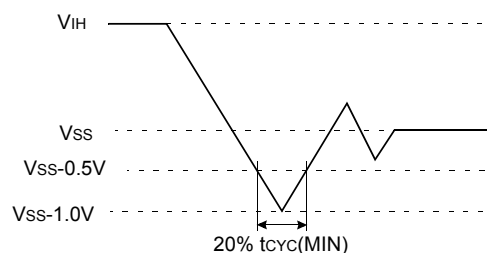
PARAMETER	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Input Capacitance	CIN	VIN=0V	-	5	pF
Output Capacitance	COUT	VOU=0V	-	7	pF

***Note :** Sampled not 100% tested.

Overshoot Timing



Undershoot Timing



DC ELECTRICAL CHARACTERISTICS

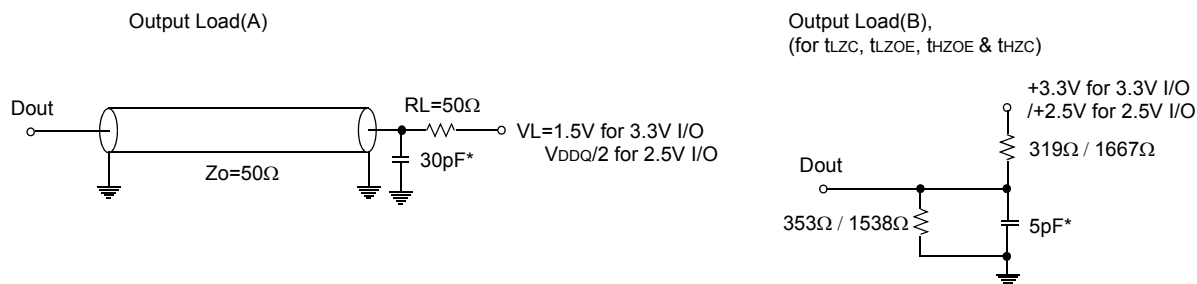
Parameter	Symbol	Test Conditions	Min	Max	Unit	Notes
Input Leakage Current(except ZZ)	I _{IL}	V _{DD} =Max ; V _{IN} =V _{SS} to V _{DD}	-2	+2	μA	
Output Leakage Current	I _{OL}	Output Disabled, V _{out} =V _{SS} to V _{DDQ}	-2	+2	μA	
Operating Current	I _{CC}	Device Selected, I _{OUT} =0mA, ZZ≤V _{IL} , Cycle Time ≥ t _{CYC} Min	-	290	mA	1,2
Standby Current	I _{SB}	Device deselected, I _{OUT} =0mA, ZZ≤V _{IL} , f=Max, All Inputs≤0.2V or ≥V _{DD} -0.2V	-	130	mA	
	I _{SB1}	Device deselected, I _{OUT} =0mA, ZZ≤0.2V, f=0, All Inputs=fixed (V _{DD} -0.2V or 0.2V)	-	110	mA	
	I _{SB2}	Device deselected, I _{OUT} =0mA, ZZ≥V _{DD} -0.2V, f=Max, All Inputs≤V _{IL} or ≥V _{IH}	-	100	mA	
Output Low Voltage(3.3V I/O)	V _{OL}	I _{OL} =8.0mA	-	0.4	V	
Output High Voltage(3.3V I/O)	V _{OH}	I _{OH} =-4.0mA	2.4	-	V	
Output Low Voltage(2.5V I/O)	V _{OL}	I _{OL} =1.0mA	-	0.4	V	
Output High Voltage(2.5V I/O)	V _{OH}	I _{OH} =-1.0mA	2.0	-	V	
Input Low Voltage(3.3V I/O)	V _{IL}		-0.3*	0.8	V	
Input High Voltage(3.3V I/O)	V _{IH}		2.0	V _{DD} +0.3**	V	3
Input Low Voltage(2.5V I/O)	V _{IL}		-0.3*	0.7	V	
Input High Voltage(2.5V I/O)	V _{IH}		1.7	V _{DD} +0.3**	V	3

Notes : 1. The above parameters are also guaranteed at industrial temperature range.
2. Reference AC Operating Conditions and Characteristics for input and timing.
3. Data states are all zero.
4. In Case of I/O Pins, the Max. V_{IH}=V_{DDQ}+0.3V

TEST CONDITIONS

PARAMETER	VALUE
Input Pulse Level(for 3.3V I/O)	0 to 3.0V
Input Pulse Level(for 2.5V I/O)	0 to 2.5V
Input Rise and Fall Time(Measured at 20% to 80% for 3.3/2.5V I/O)	1.0V/ns
Input and Output Timing Reference Levels for 3.3V I/O	1.5V
Input and Output Timing Reference Levels for 2.5V I/O	V _{DDQ} /2
Output Load	See Fig. 1

* The above parameters are also guaranteed at industrial temperature range.



* Including Scope and Jig Capacitance

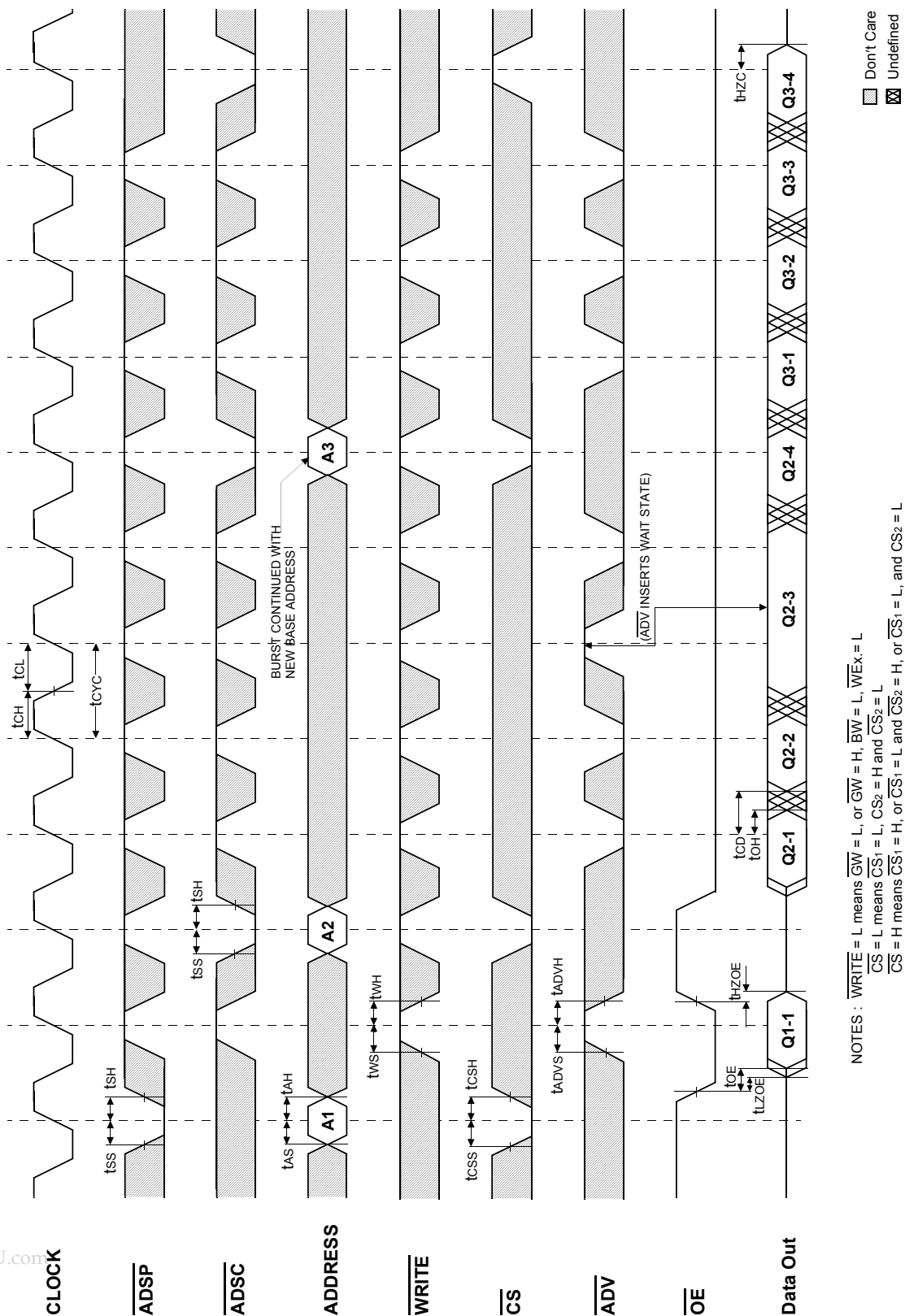
Fig. 1

AC TIMING CHARACTERISTICS

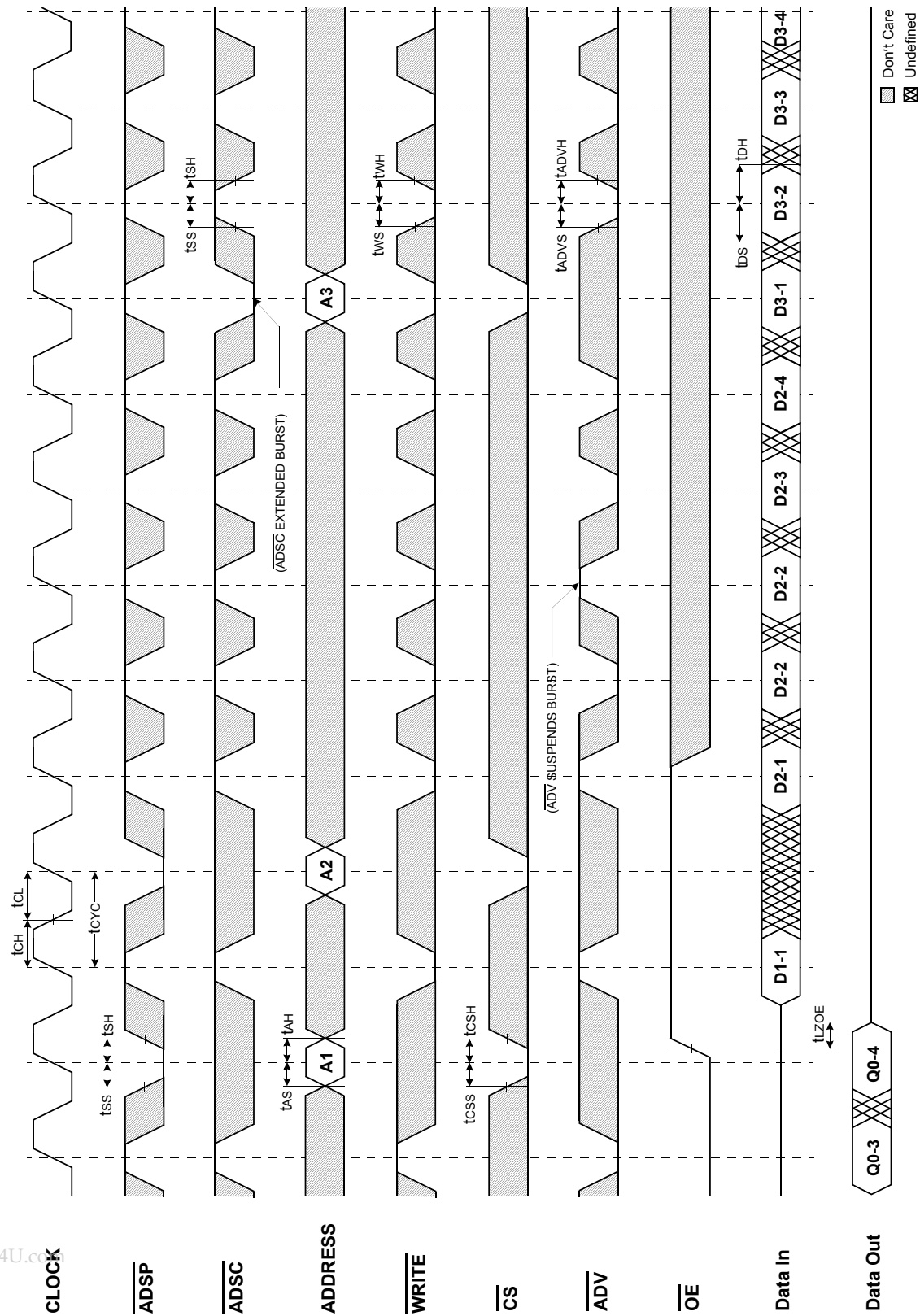
PARAMETER	SYMBOL	-75		UNIT
		MIN	MAX	
Cycle Time	t _{CYC}	8.5	-	ns
Clock Access Time	t _{CD}	-	7.5	ns
Output Enable to Data Valid	t _{OE}	-	3.5	ns
Clock High to Output Low-Z	t _{LZC}	2.5	-	ns
Output Hold from Clock High	t _{OH}	2.5	-	ns
Output Enable Low to Output Low-Z	t _{LZOE}	0	-	ns
Output Enable High to Output High-Z	t _{HZOE}	-	3.5	ns
Clock High to Output High-Z	t _{HZC}	-	4.0	ns
Clock High Pulse Width	t _{CH}	2.5	-	ns
Clock Low Pulse Width	t _{CL}	2.5	-	ns
Address Setup to Clock High	t _{AS}	2.0	-	ns
Address Status Setup to Clock High	t _{SS}	2.0	-	ns
Data Setup to Clock High	t _{DS}	2.0	-	ns
Write Setup to Clock High ($\overline{GW}$, $\overline{BW}$, $\overline{WE}_x$)	t _{WS}	2.0	-	ns
Address Advance Setup to Clock High	t _{ADVS}	2.0	-	ns
Chip Select Setup to Clock High	t _{CSS}	2.0	-	ns
Address Hold from Clock High	t _{AH}	0.5	-	ns
Address Status Hold from Clock High	t _{SH}	0.5	-	ns
Data Hold from Clock High	t _{DH}	0.5	-	ns
Write Hold from Clock High ($\overline{GW}$, $\overline{BW}$, $\overline{WE}_x$)	t _{WH}	0.5	-	ns
Address Advance Hold from Clock High	t _{ADVH}	0.5	-	ns
Chip Select Hold from Clock High	t _{CSH}	0.5	-	ns
ZZ High to Power Down	t _{PDS}	2	-	cycle
ZZ Low to Power Up	t _{PUS}	2	-	cycle

- Notes :**
1. The above parameters are also guaranteed at industrial temperature range.
 2. All address inputs must meet the specified setup and hold times for all rising clock edges whenever $\overline{ADSC}$ and/or $\overline{ADSP}$ is sampled low and $\overline{CS}$ is sampled low. All other synchronous inputs must meet the specified setup and hold times whenever this device is chip selected.
 3. Both chip selects must be active whenever $\overline{ADSC}$ or $\overline{ADSP}$ is sampled low in order for the this device to remain enabled.
 4. $\overline{ADSC}$ or $\overline{ADSP}$ must not be asserted for at least 2 Clock after leaving ZZ state.

TIMING WAVEFORM OF READ CYCLE

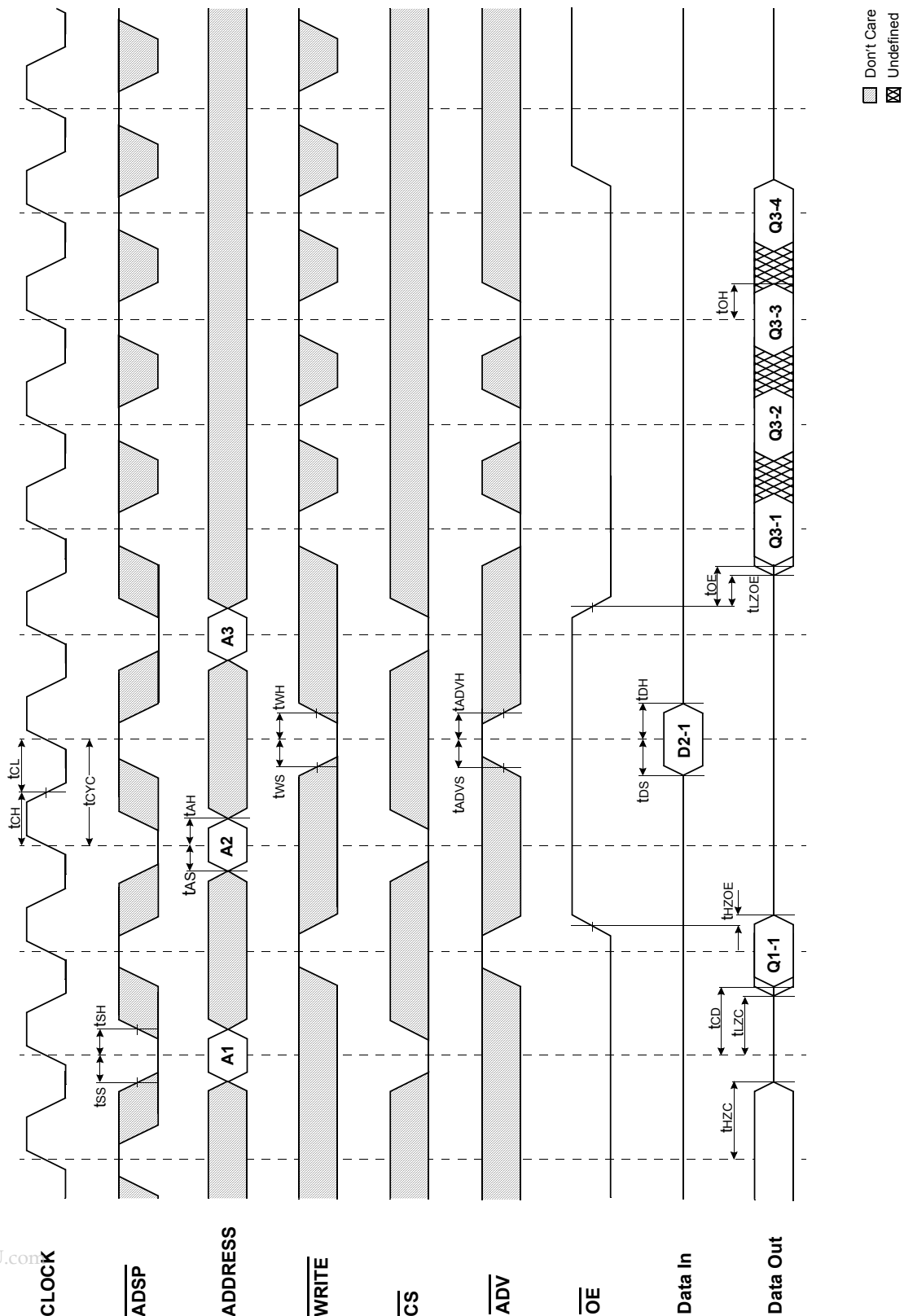


TIMING WAVEFORM OF WRTE CYCLE

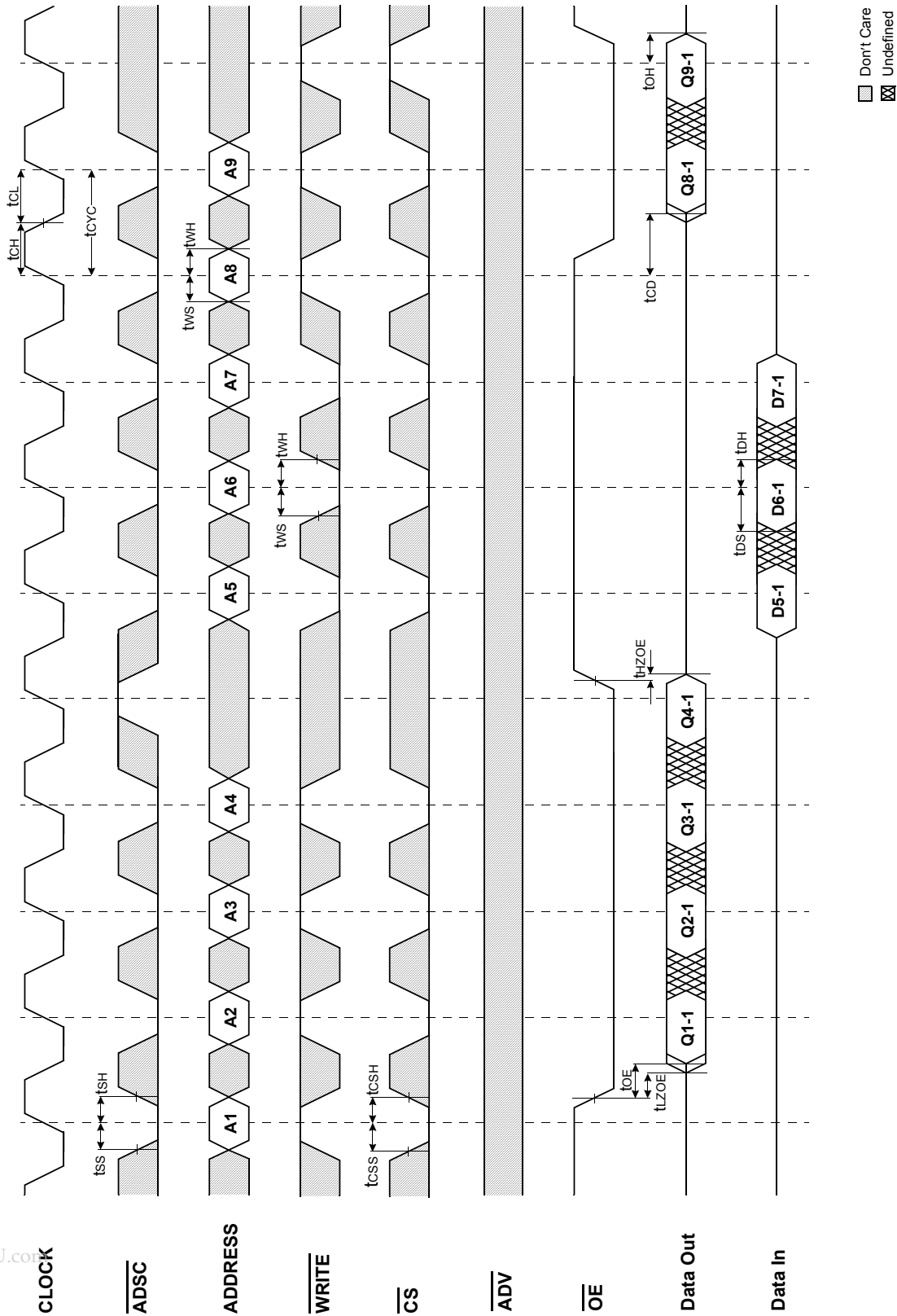


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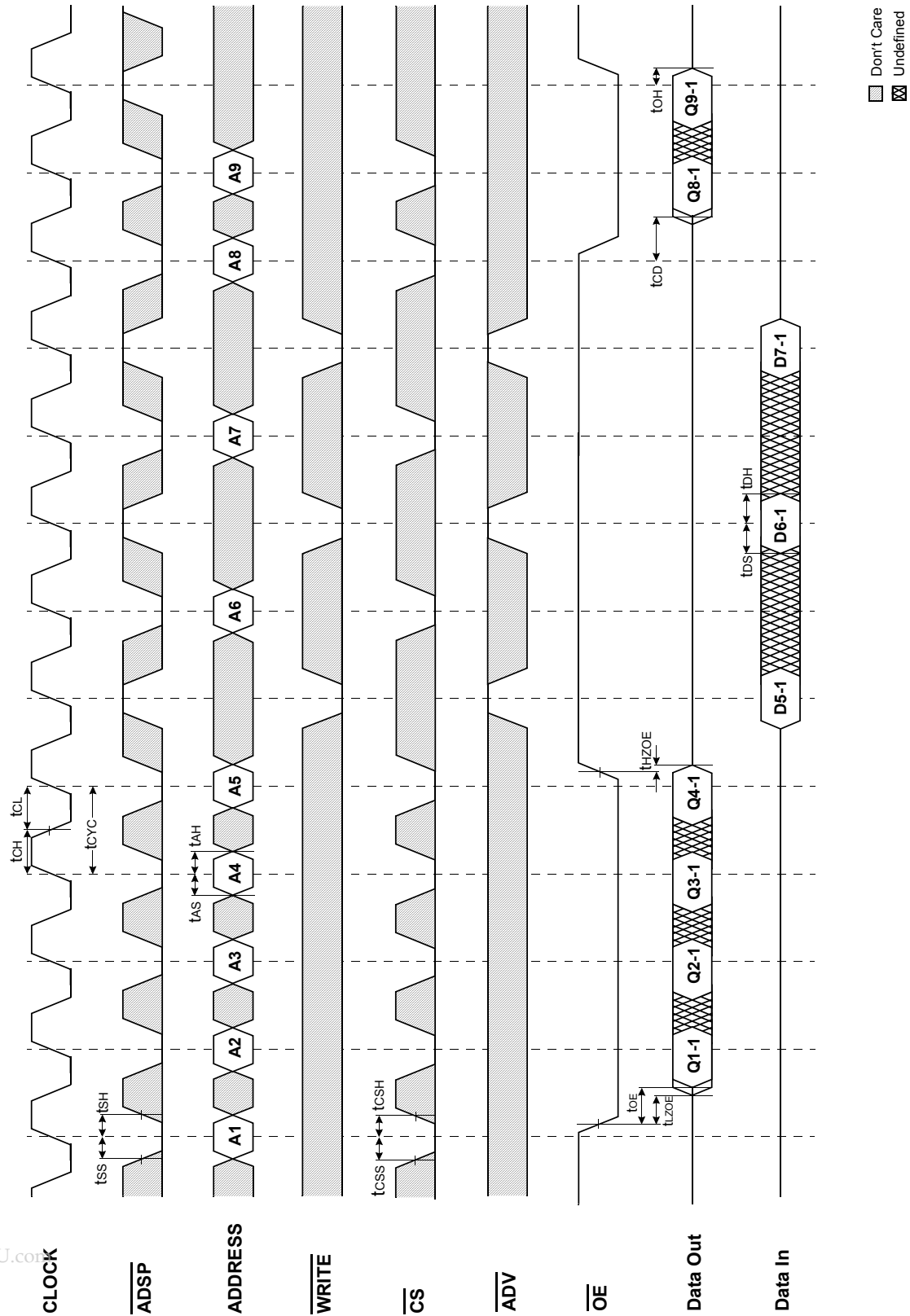
TIMING WAVEFORM OF COMBINATION READ/WRITE CYCLE(ADSP CONTROLLED, ADSC=HIGH)



TIMING WAVEFORM OF SINGLE READ/WRITE CYCLE(ADSC CONTROLLED, ADSP=HIGH)



TIMING WAVEFORM OF SINGLE READ/WRITE CYCLE(ADSP CONTROLLED, $\overline{\text{ADSC}}=\text{HIGH}$)



CLOCK

ADSP

ADSC

ADDRESS

WRITE

CS

ADV

OE

Data In

Data Out

ZZ

Timing Parameters:

- t_{CH} , t_{CL} , t_{CYC}
- t_{SS} , t_{SH} , t_{AS} , t_{AH} , t_{CSS} , t_{CSH}
- t_{OE} , t_{LOE} , t_{HZC} , t_{HZOE} , t_{PUS} , t_{PDS} , t_{WS} , t_{WH}

States: Sleep State, ZZ Setup Cycle, ZZ Recovery Cycle, Normal Operation Mode

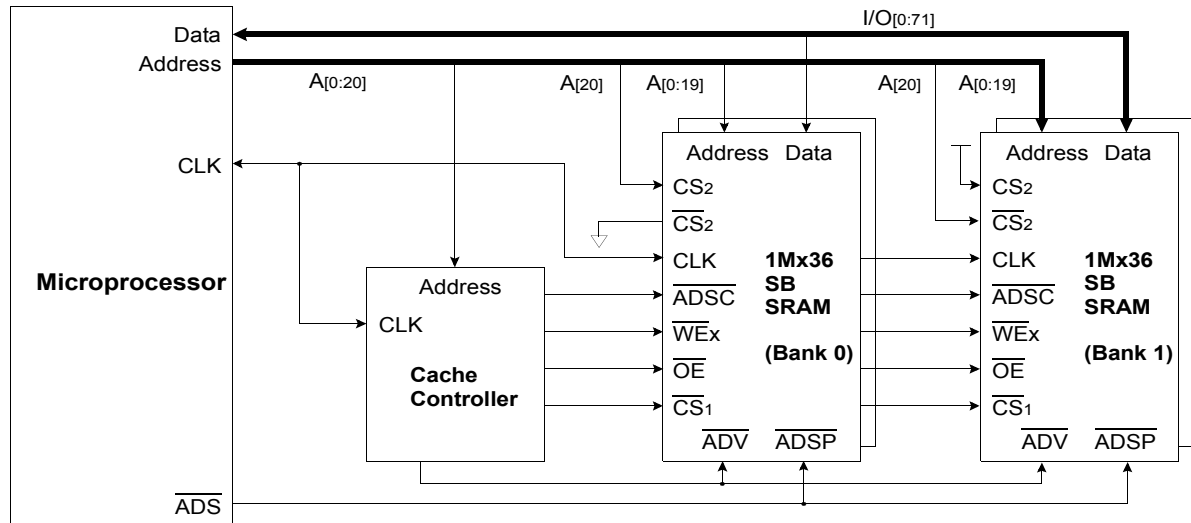
Legend:

- Don't Care (hatched)
- Undefined (cross-hatched)

APPLICATION INFORMATION

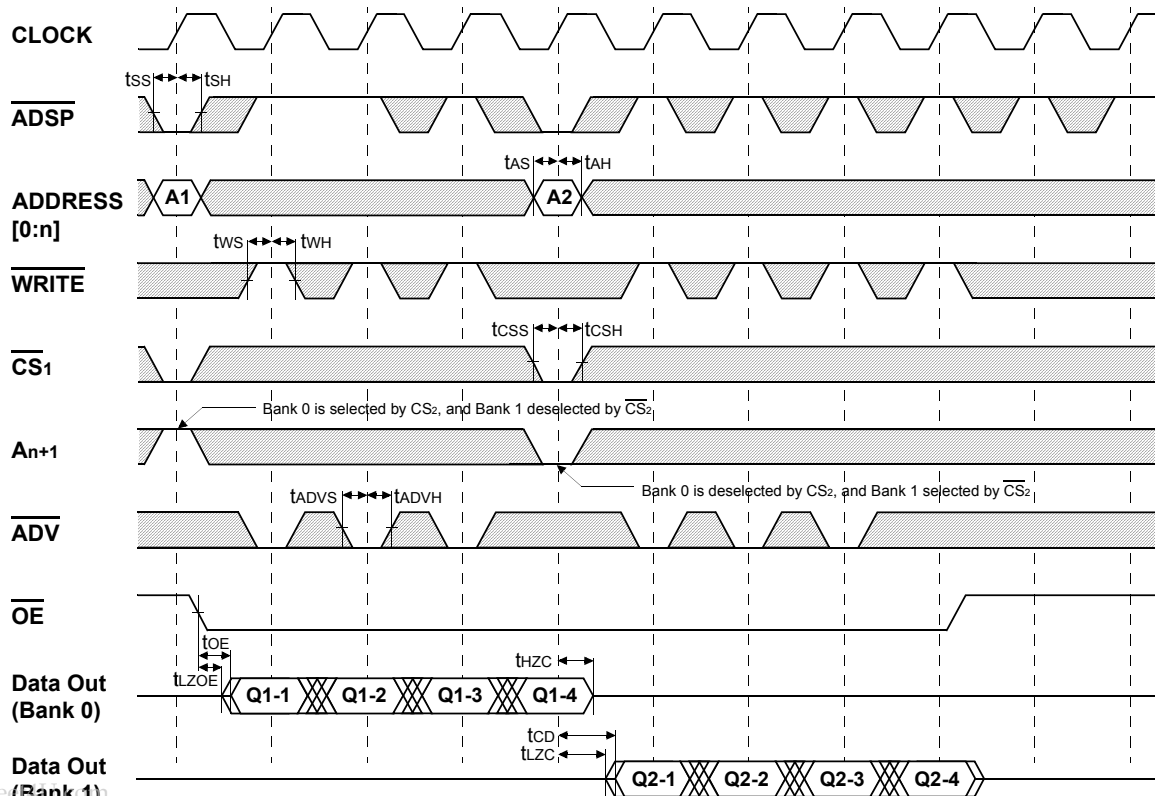
DEPTH EXPANSION

The Samsung 1Mx36 Synchronous Burst SRAM has two additional chip selects for simple depth expansion. This permits easy secondary cache upgrades from 1M depth to 2M depth without extra logic.



INTERLEAVE READ TIMING (Refer to non-interleave write timing for interleave write timing)

(ADSP CONTROLLED, ADSC=HIGH)

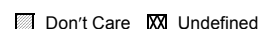


*Notes : n = 14 32K depth , 15 64K depth
 16 128K depth , 17 256K depth
 18 512K depth , 19 1M depth

□ Don't Care ⊗ Undefined

1Mx36 & 2Mx18 Synchronous SRAM

The Samsung 2Mx18 Synchronous Burst SRAM has two additional chip selects for simple depth expansion. This permits easy secondary cache upgrades from 2M depth to 4M depth without extra logic.



K7B323635C
K7B321835C

1Mx36 & 2Mx18 Synchronous SRAM

PACKAGE DIMENSIONS

