

Absolute Maximum Ratings*

Ambient Temperature Under Bias	0°C to 70°C
Storage Temperature	-65°C to +150°C
Voltage On Any Pin	
With Respect to Ground	-0.5V to +7V
Power Dissipation	1 Watt

*COMMENT:

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

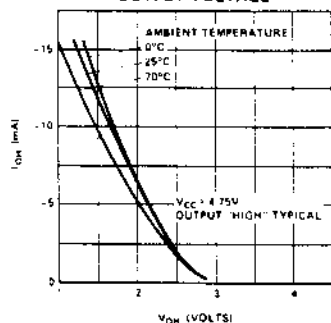
D.C. and Operating Characteristics

$T_A = 0^\circ\text{C}$ to 70°C , $V_{CC} = 5\text{V} \pm 5\%$, unless otherwise specified.

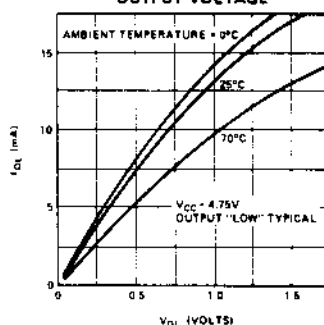
Symbol	Parameter	Min.	Typ. (1)	Max.	Unit	Test Conditions
I_{LI}	Input Load Current			10	μA	$V_{IN} = 0$ to 5.25V
I_{LOH}	I/O Leakage Current			15	μA	$\overline{CE} = 2.2\text{V}$, $V_{I/O} = 4.0\text{V}$
I_{LOL}	I/O Leakage Current			-50	μA	$\overline{CE} = 2.2\text{V}$, $V_{I/O} = 0.45\text{V}$
I_{CC1}	Power Supply Current		30	60	mA	$V_{IN} = 5.25\text{V}$ $I_{I/O} = 0\text{mA}$, $T_A = 25^\circ\text{C}$
I_{CC2}	Power Supply Current			70	mA	$V_{IN} = 5.25\text{V}$ $I_{I/O} = 0\text{mA}$, $T_A = 0^\circ\text{C}$
V_{IL}	Input Low Voltage	-0.5		+0.65	V	
V_{IH}	Input High Voltage	2.2		V_{CC}	V	
V_{OL}	Output Low Voltage			0.45	V	$I_{OL} = 2.0\text{mA}$
V_{OH}	Output High Voltage	2.2			V	$I_{OH} = -150\mu\text{A}$

NOTES: 1. Typical values are for $T_A = 25^\circ\text{C}$ and nominal supply voltage.

OUTPUT SOURCE CURRENT VS. OUTPUT VOLTAGE



OUTPUT SINK CURRENT VS. OUTPUT VOLTAGE



A.C. Characteristics

READ CYCLE $T_A = 0^\circ\text{C}$ to 70°C , $V_{CC} = 5\text{V} \pm 5\%$, unless otherwise specified.

Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Conditions
t_{RCY}	Read Cycle	850			ns	(See below)
t_A	Access Time			850	ns	
t_{CO}	Chip Enable To Output			650	ns	
t_{OD}	Output Disable To Output			550	ns	
$t_{DF}^{[1]}$	Data Output to High Z State	0		200	ns	
t_{OH}	Previous Data Read Valid after change of Address	0			ns	

WRITE CYCLE

Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Conditions
t_{WCY}	Write Cycle	850			ns	(See below)
t_{AW}	Write Delay	150			ns	
t_{CW}	Chip Enable To Write	750			ns	
t_{DW}	Data Setup	500			ns	
t_{DH}	Data Hold	100			ns	
t_{WP}	Write Pulse	630			ns	
t_{WR}	Write Recovery	50			ns	

A. C. CONDITIONS OF TEST

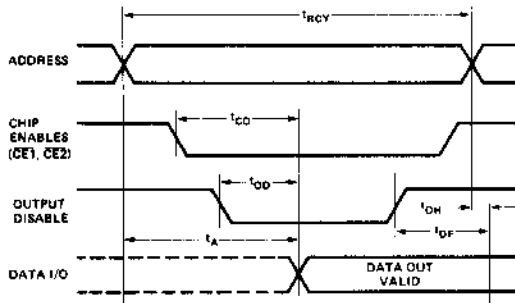
- Input Pulse Levels: +0.65 Volt to 2.2 Volt
- Input Pulse Rise and Fall Times: 20nsec
- Timing Measurement Reference Level: 1.5 Volt
- Output Load: 1 TTL Gate and $C_L = 100\text{pF}$

Capacitance $T_A = 25^\circ\text{C}$, $f = 1\text{MHz}$

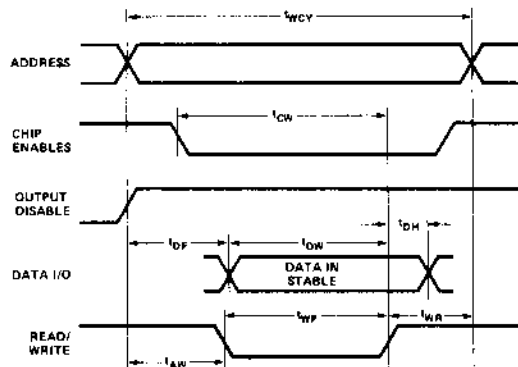
Symbol	Test	Limits (pF)	
		Typ.	Max.
C_{IN}	Input Capacitance (All Input Pins) $V_{IN} = 0\text{V}$	4	8
C_{OUT}	Output Capacitance $V_{OUT} = 0\text{V}$	10	15

Waveforms

READ CYCLE



WRITE CYCLE



NOTE: 1. t_{DF} is with respect to the trailing edge of $\overline{CE1}$, $\overline{CE2}$, or OD, whichever occurs first.