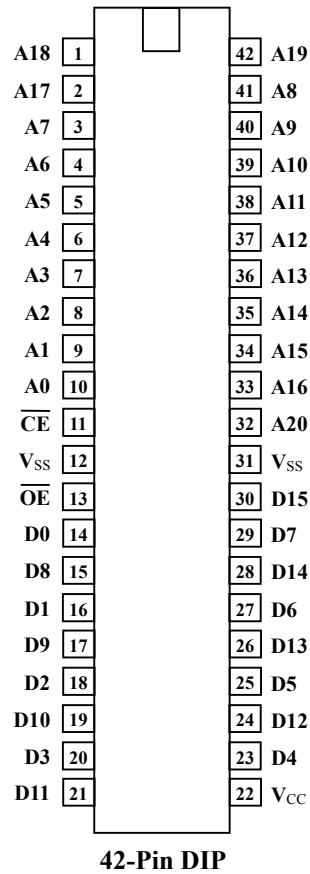
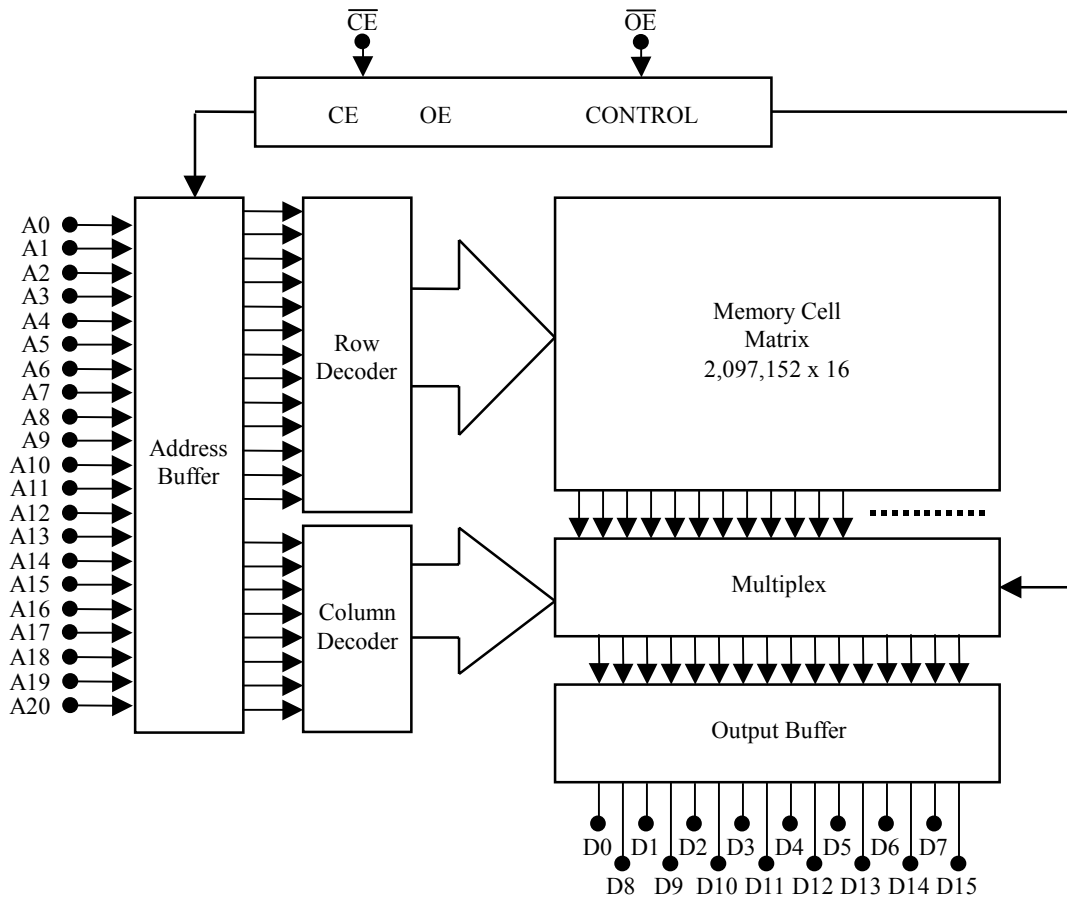


PIN CONFIGURATION (TOP VIEW)



PIN NAMES	FUNCTIONS
A0~A20	Address input
D0~D15	Data output
$\overline{\text{CE}}$	Chip enable
$\overline{\text{OE}}$	Output enable
V_{CC}	Power supply voltage
V_{SS}	GND

BLOCK DIAGRAM



FUNCTION TABLE

MODE	\overline{CE}	\overline{OE}	D0~D15
STAND BY	H	X	Hi-Z
OUTPUT DISABLE	L	H	Hi-Z
READ	L	L	D _{OUT}

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Condition	Value	Unit
Operating temperature under bias	T _{OPR}	-	0 ~ 70	°C
Storage temperature	T _{STG}	-	-55 ~ 125	°C
Input voltage	V _I	Relative to V _{SS}	-0.5 ~ V _{CC} +0.5	V
Output voltage	V _O		-0.5 ~ V _{CC} +0.5	V
Power supply voltage	V _{CC}		-0.5 ~ 5	V
Power dissipation per package	P _D	-	1.0	W

RECOMMENDED OPERATING CONDITIONS FOR READ

(Ta=0 ~ 70°C)

Parameter	Symbol	Condition	Min.	Typ.	Min.	Unit
V _{CC} power supply voltage	V _{CC}	V _{CC} =2.7V ~ 3.6V	2.7	-	3.6	°C
Input "H" level	V _{IH}		2.2	-	V _{CC} +0.5	°C
Input "L" level	V _{IL}		-0.5	-	0.8	V

Voltage is relative to V_{SS}

PIN Capacitance

(V_{CC}=3.3V, Ta=25°C, f=1MHz)

Parameter	Symbol	Condition	Min.	Typ.	Min.	Unit
Input	C _{IN}	V _I =0V	-	-	12	pF
Output	C _{OUT}	V _O =0V	-	-	15	pF

ELECTRICAL CHARACTERISTICS

DC Characteristics 1

(V_{CC}=2.7V~3.3V, Ta=0~70°C)

Parameter	Symbol	Condition	Min.	Typ.	Min.	Unit
Input leakage current	C _{IN}	V _I =0V~V _{CC}	-	-	10	μA
Output leakage current	C _{OUT}	V _O =0V~V _{CC}	-	-	10	μA
V _{CC} power supply current (Standby)	I _{CCSC}	$\overline{CE}=V_{CC}$	-	-	10	μA
	I _{CCST}	$\overline{CE}=V_{IH}$	-	-	1	mA
V _{CC} power supply current (Active)	I _{CCA}	$\overline{CE}=V_{IL}, \overline{OE}=V_{IH}$ tc=120ns	-	-	30	mA
Input "H" level	V _{IH}	-	2.0	-	V _{CC} +0.5	V
Input "L" level	V _{IL}	-	-0.5	-	0.8	V
Output "H" level	V _{OH}	I _{OH} =-200 μA	V _{CC} -0.4	-	-	V
Output "L" level	V _{OL}	I _{OL} =1mA	-	-	0.4	V

Voltage is relative to V_{SS}

DC Characteristics 2

(V_{CC}=3.0V~3.6V, Ta=0~70°C)

Parameter	Symbol	Condition	Min.	Typ.	Min.	Unit
Input leakage current	C _{IN}	V _I =0V~V _{CC}	-	-	10	μA
Output leakage current	C _{OUT}	V _O =0V~V _{CC}	-	-	10	μA
V _{CC} power supply current (Standby)	I _{CCSC}	$\overline{CE}=V_{CC}$	-	-	10	μA
	I _{CCST}	$\overline{CE}=V_{IH}$	-	-	1	mA
V _{CC} power supply current (Active)	I _{CCA}	$\overline{CE}=V_{IL}, \overline{OE}=V_{IH}$ tc=100ns	-	-	40	mA
Input "H" level	V _{IH}	-	2.0	-	V _{CC} +0.5	V
Input "L" level	V _{IL}	-	-0.5	-	0.8	V
Output "H" level	V _{OH}	I _{OH} =-200 μA	V _{CC} -0.4	-	-	V
Output "L" level	V _{OL}	I _{OL} =1mA	-	-	0.4	V

Voltage is relative to V_{SS}

AC Characteristics 1

(V_{CC}=2.7V~3.3V, T_a=0~70°C)

Parameter	Symbol	Condition	Min.	Min.	Unit
Address access cycle time	T _C	-	120	-	ns
Address access time	T _{ACC}	$\overline{CE}=\overline{OE}=V_{IL}$	-	120	ns
\overline{CE} access time	T _{CE}	$\overline{OE}=V_{IL}$	-	120	ns
\overline{OE} access time	T _{OE}	$\overline{CE}=V_{IL}$	-	40	ns
Output disable time	T _{CHZ}	$\overline{OE}=V_{IL}$	0	35	ns
	T _{OHZ}	$\overline{CE}=V_{IL}$	0	30	ns
Output hold time	T _{OH}	$\overline{CE}=\overline{OE}=V_{IL}$	0	-	ns

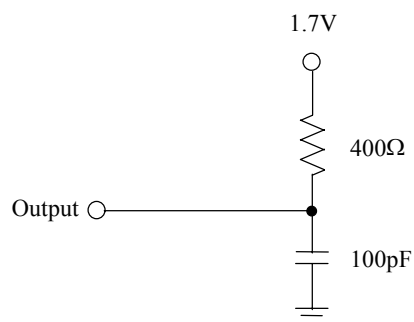
AC Characteristics 2

(V_{CC}=3.0V~3.6V, T_a=0~70°C)

Parameter	Symbol	Condition	Min.	Min.	Unit
Address access cycle time	T _C	-	100	-	ns
Address access time	T _{ACC}	$\overline{CE}=\overline{OE}=V_{IL}$	-	100	ns
\overline{CE} access time	T _{CE}	$\overline{OE}=V_{IL}$	-	100	ns
\overline{OE} access time	T _{OE}	$\overline{CE}=V_{IL}$	-	30	ns
Output disable time	T _{CHZ}	$\overline{OE}=V_{IL}$	0	30	ns
	T _{OHZ}	$\overline{CE}=V_{IL}$	0	25	ns
Output hold time	T _{OH}	$\overline{CE}=\overline{OE}=V_{IL}$	0	-	ns

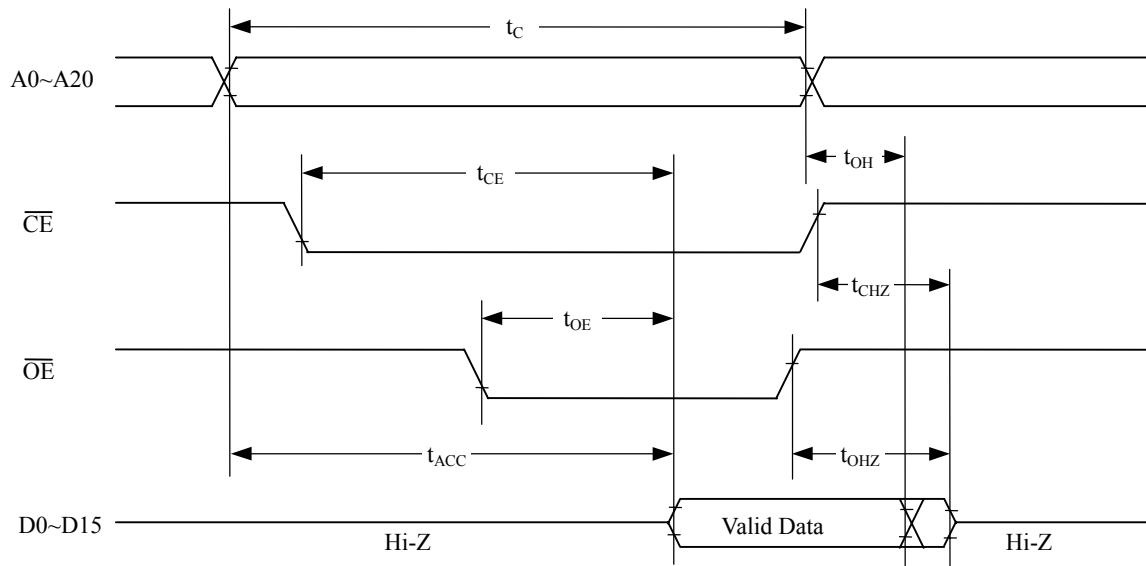
Measurement condition

Input signal level	0V/3V
Input timing reference level	0.8V/2.0V
Output load	100pF
Output timing reference level	0.8V/2.0V



TIMING CHART

16BIT READ MODE



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