

Features

- Very high speed: 45 ns
 - Wide voltage range: 2.20 V–3.60 V
- Pin compatible with CY62158DV30
- Ultra low standby power
 - Typical standby current: 2 μ A
 - Maximum standby current: 8 μ A
- Ultra low active power
 - Typical active current: 6 mA at $f = 1$ MHz
- Easy memory expansion with \overline{CE}_1 , CE_2 , and \overline{OE} features
- Automatic power down when deselected
- CMOS for optimum speed/power
- Offered in Pb-free 48-ball VFBGA and 44-pin TSOP II packages

Functional Description

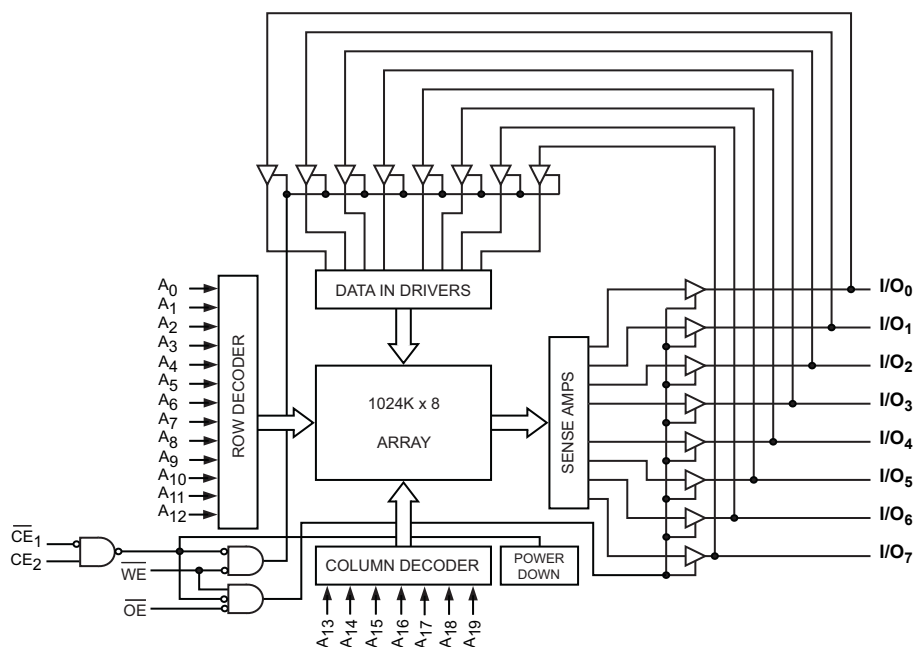
The CY62158EV30 is a high performance CMOS static RAM organized as 1024K words by 8 bits. This device features advanced circuit design to provide ultra low active current. This is ideal for providing More Battery Life™ (MoBL®) in portable applications such as cellular telephones. The device also has an automatic power down feature that significantly reduces power consumption. Placing the device into standby mode reduces power consumption significantly when deselected (\overline{CE}_1 HIGH or CE_2 LOW). The eight input and output pins (I/O_0 through I/O_7) are placed in a high impedance state when the device is deselected (\overline{CE}_1 HIGH or CE_2 LOW), the outputs are disabled (\overline{OE} HIGH), or a write operation is in progress (\overline{CE}_1 LOW and CE_2 HIGH and \overline{WE} LOW).

To write to the device, take Chip Enables (\overline{CE}_1 LOW and CE_2 HIGH) and Write Enable (\overline{WE}) input LOW. Data on the eight I/O pins (I/O_0 through I/O_7) is then written into the location specified on the address pins (A_0 through A_{19}).

To read from the device, take Chip Enables (\overline{CE}_1 LOW and CE_2 HIGH) and \overline{OE} LOW while forcing the \overline{WE} HIGH. Under these conditions, the contents of the memory location specified by the address pins appear on the I/O pins. See [Truth Table on page 11](#) for a complete description of read and write modes.

For a complete list of related documentation, [click here](#).

Logic Block Diagram



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Pin Configurations

Figure 1. 48-ball VFBGA pinout (Top View) ^[1]

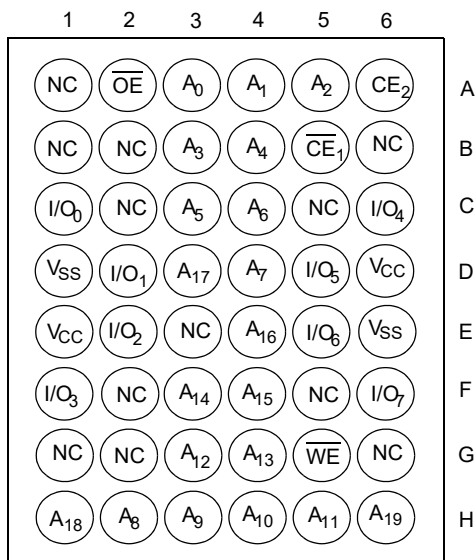
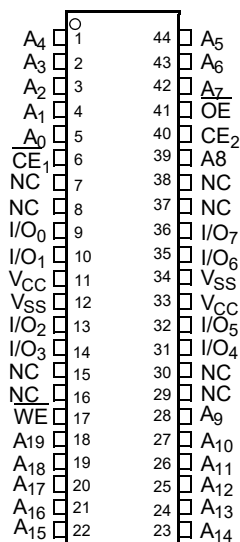


Figure 2. 44-pin TSOP II pinout (Top View) ^[1]



Product Portfolio

Product	V _{CC} Range (V)			Speed (ns)	Power Dissipation					
					Operating I _{CC} (mA)				Standby, I _{SB2} (μA)	
	f = 1 MHz		f = f _{max}							
	Min	Typ ^[2]	Max		Typ ^[2]	Max	Typ ^[2]	Max	Typ ^[2]	Max
CY62158EV30LL	2.2	3.0	3.6	45	6	7	18	25	2	8

Notes

1. NC pins are not connected on the die.
2. Typical values are included for reference only and are not guaranteed or tested. Typical values are measured at V_{CC} = V_{CC(typ)}, T_A = 25 °C.

Maximum Ratings

Exceeding maximum ratings may shorten the useful life of the device. User guidelines are not tested.

Storage Temperature -65 °C to +150 °C

Ambient Temperature
with Power Applied -55 °C to +125 °C

Supply Voltage
to Ground Potential ^[3, 4] -0.3 V to $V_{CC(max)}$ + 0.3 V

DC Voltage Applied to Outputs
in High Z State ^[3, 4] -0.3 V to $V_{CC(max)}$ + 0.3 V

DC Input Voltage ^[3, 4] -0.3 V to $V_{CC(max)}$ + 0.3 V

Output Current into Outputs (LOW) 20 mA

Static Discharge Voltage
(MIL-STD-883, Method 3015) > 2001 V

Latch up Current > 200 mA

Operating Range

Product	Range	Ambient Temperature (T _A)	V _{CC} ^[5]
CY62158EV30LL	Industrial	-40 °C to +85 °C	2.2 V–3.6 V

Electrical Characteristics

Over the Operating Range

Parameter	Description	Test Conditions	45 ns			Unit
			Min	Typ ^[6]	Max	
V _{OH}	Output HIGH voltage	I _{OH} = -0.1 mA	2.0	–	–	V
		I _{OH} = -1.0 mA, V _{CC} ≥ 2.70 V	2.4	–	–	V
V _{OL}	Output LOW voltage	I _{OL} = 0.1 mA	–	–	0.4	V
		I _{OL} = 2.1 mA, V _{CC} ≥ 2.70 V	–	–	0.4	V
V _{IH}	Input HIGH voltage	V _{CC} = 2.2 V to 2.7 V	1.8	–	V _{CC} + 0.3 V	V
		V _{CC} = 2.7 V to 3.6 V	2.2	–	V _{CC} + 0.3 V	V
V _{IIL}	Input LOW voltage	V _{CC} = 2.2 V to 2.7 V	-0.3	–	0.6	V
		V _{CC} = 2.7 V to 3.6 V	-0.3	–	0.8	V
I _{IX}	Input leakage current	GND ≤ V _I ≤ V _{CC}	-1	–	+1	μA
I _{OZ}	Output leakage current	GND ≤ V _O ≤ V _{CC} , Output Disabled	-1	–	+1	μA
I _{CC}	V _{CC} operating supply current	f = f _{max} = 1/t _{RC}	–	18	25	mA
		f = 1 MHz	–	6	7	mA
I _{SB1}	Automatic CE power down current — CMOS Inputs	$\overline{CE}_1 \geq V_{CC} - 0.2 \text{ V}$, CE ₂ ≤ 0.2 V, V _{IN} ≥ V _{CC} - 0.2 V, V _{IN} ≤ 0.2 V, f = f _{max} (Address and Data Only), f = 0 (OE and WE), V _{CC} = 3.60 V	–	2	8	μA
I _{SB2} ^[7]	Automatic CE Power down Current — CMOS inputs	CE ₁ ≥ V _{CC} - 0.2 V or CE ₂ ≤ 0.2 V, V _{IN} ≥ V _{CC} - 0.2 V or V _{IN} ≤ 0.2 V, f = 0, V _{CC} = 3.60 V	–	2	8	μA

Notes

3. V_{IIL(min)} = -2.0 V for pulse durations less than 20 ns.

4. V_{IH(max)} = V_{CC} + 0.75 V for pulse duration less than 20 ns.

5. Full device AC operation assumes a 100 μs ramp time from 0 to V_{CC(min)} and 200 μs wait time after V_{CC} stabilization.

6. Typical values are included for reference only and are not guaranteed or tested. Typical values are measured at V_{CC} = V_{CC(typ)}, T_A = 25 °C.

7. Chip enables (CE₁ and CE₂) must be at CMOS level to meet the I_{SB2}/I_{CCDR} spec. Other inputs can be left floating.

Capacitance

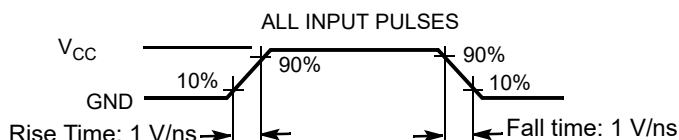
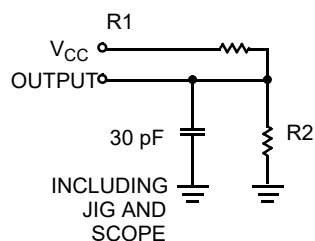
Parameter ^[8]	Description	Test Conditions	Max	Unit
C_{IN}	Input capacitance	$T_A = 25^\circ\text{C}$, $f = 1\text{ MHz}$, $V_{CC} = V_{CC(\text{typ})}$	10	pF
C_{OUT}	Output capacitance		10	pF

Thermal Resistance

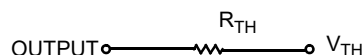
Parameter ^[8]	Description	Test Conditions	48-ball BGA	44-pin TSOP II	Unit
Θ_{JA}	Thermal resistance (junction to ambient)	Still Air, soldered on a 3×4.5 inch, two-layer printed circuit board	36.92	65.91	$^\circ\text{C/W}$
Θ_{JC}	Thermal resistance (junction to case)		13.55	13.96	$^\circ\text{C/W}$

AC Test Loads and Waveforms

Figure 3. AC Test Loads and Waveforms



Equivalent to: THÉVENIN EQUIVALENT



Parameters	2.5 V	3.0 V	Unit
$R1$	16667	1103	Ω
$R2$	15385	1554	Ω
R_{TH}	8000	645	Ω
V_{TH}	1.20	1.75	V

Note

8. Tested initially and after any design or process changes that may affect these parameters.

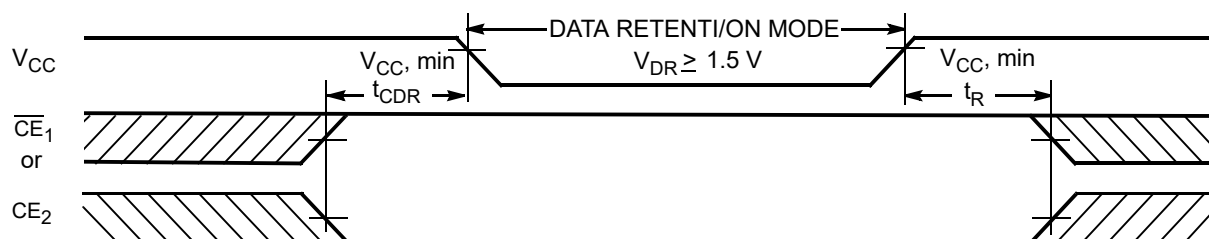
Data Retention Characteristics

Over the Operating Range

Parameter	Description	Conditions	Min	Typ ^[9]	Max	Unit
V_{DR}	V_{CC} for data retention		1.5	–	–	V
$I_{CCDR}^{[10]}$	Data retention current	$V_{CC} = 1.5\text{ V}$, $\overline{CE}_1 \geq V_{CC} - 0.2\text{ V}$ or $CE_2 \leq 0.2\text{ V}$, $V_{IN} \geq V_{CC} - 0.2\text{ V}$ or $V_{IN} \leq 0.2\text{ V}$	–	3.2	8	μA
$t_{CDR}^{[11]}$	Chip deselect to data retention time		0	–	–	ns
$t_R^{[12]}$	Operation recovery time		45	–	–	ns

Data Retention Waveform

Figure 4. Data Retention Waveform



Notes

9. Typical values are included for reference only and are not guaranteed or tested. Typical values are measured at $V_{CC} = V_{CC(\text{typ})}$, $T_A = 25^\circ\text{C}$.
10. Chip enables (\overline{CE}_1 and CE_2) must be at CMOS level to meet the I_{SB2}/I_{CCDR} spec. Other inputs can be left floating.
11. Tested initially and after any design or process changes that may affect these parameters.
12. Full Device AC operation requires linear V_{CC} ramp from V_{DR} to $V_{CC(\min)} \geq 100\text{ }\mu\text{s}$ or stable at $V_{CC(\min)} \geq 100\text{ }\mu\text{s}$.

Switching Characteristics

Over the Operating Range

Parameter ^[13, 14]	Description	45 ns		Unit
		Min	Max	
Read Cycle				
t _{RC}	Read cycle time	45	–	ns
t _{AA}	Address to data valid	–	45	ns
t _{OHA}	Data Hold from address change	10	–	ns
t _{ACE}	\overline{CE}_1 LOW and CE ₂ HIGH to data valid	–	45	ns
t _{DOE}	\overline{OE} LOW to data valid	–	22	ns
t _{LZOE}	\overline{OE} LOW to Low Z ^[15]	5	–	ns
t _{HZOE}	\overline{OE} HIGH to High Z ^[15, 16]	–	18	ns
t _{LZCE}	\overline{CE}_1 LOW and CE ₂ HIGH to Low Z ^[15]	10	–	ns
t _{HZCE}	\overline{CE}_1 HIGH or CE ₂ LOW to High Z ^[15, 16]	–	18	ns
t _{PU}	\overline{CE}_1 LOW and CE ₂ HIGH to Power Up	0	–	ns
t _{PD}	\overline{CE}_1 HIGH or CE ₂ LOW to Power Down	–	45	ns
Write Cycle ^[17, 18]				
t _{WC}	Write cycle time	45	–	ns
t _{SCE}	\overline{CE}_1 LOW and CE ₂ HIGH to Write End	35	–	ns
t _{AW}	Address setup to Write End	35	–	ns
t _{HA}	Address Hold from Write End	0	–	ns
t _{SA}	Address setup to Write Start	0	–	ns
t _{PWE}	\overline{WE} pulse width	35	–	ns
t _{SD}	Data setup to Write End	25	–	ns
t _{HD}	Data Hold from Write End	0	–	ns
t _{HZWE}	\overline{WE} LOW to High Z ^[15, 16]	–	18	ns
t _{LZWE}	\overline{WE} HIGH to Low Z ^[15]	10	–	ns

Notes

13. In an earlier revision of this device, under a specific application condition, READ and WRITE operations were limited to switching of the chip enable signal as described in the Application Note [AN66311](#). However, the issue has been fixed and in production now, and hence, this Application Note is no longer applicable. It is available for download on our website as it contains information on the date code of the parts, beyond which the fix has been in production.
14. Test conditions for all parameters other than tri-state parameters assume signal transition time of 3 ns or less (1V/ns), timing reference levels of $V_{CC(typ)}/2$, input pulse levels of 0 to $V_{CC(typ)}$, and output loading of the specified I_{OL}/I_{OH} as shown in [Figure 3 on page 5](#).
15. At any given temperature and voltage condition, t_{HZCE} is less than t_{LZCE} , t_{HZOE} is less than t_{LZOE} , and t_{HZWE} is less than t_{LZWE} for any given device.
16. t_{HZOE} , t_{HZCE} , and t_{HZWE} transitions are measured when the outputs enter a high impedance state.
17. The internal write time of the memory is defined by the overlap of \overline{WE} , $\overline{CE}_1 = V_{IL}$, and $CE_2 = V_{IH}$. All signals must be ACTIVE to initiate a write and any of these signals can terminate a write by going INACTIVE. The data input setup and hold timing should be referenced to the edge of the signal that terminates the write.
18. The minimum write cycle pulse width for Write Cycle No. 3 (\overline{WE} Controlled, \overline{OE} LOW) should be equal to the sum of t_{SD} and t_{HZWE} .

Switching Waveforms

Figure 5. Read Cycle No. 1 (Address Transition Controlled) [19, 20]

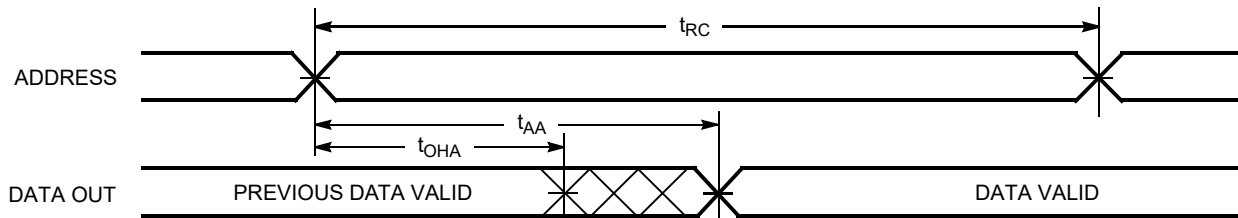
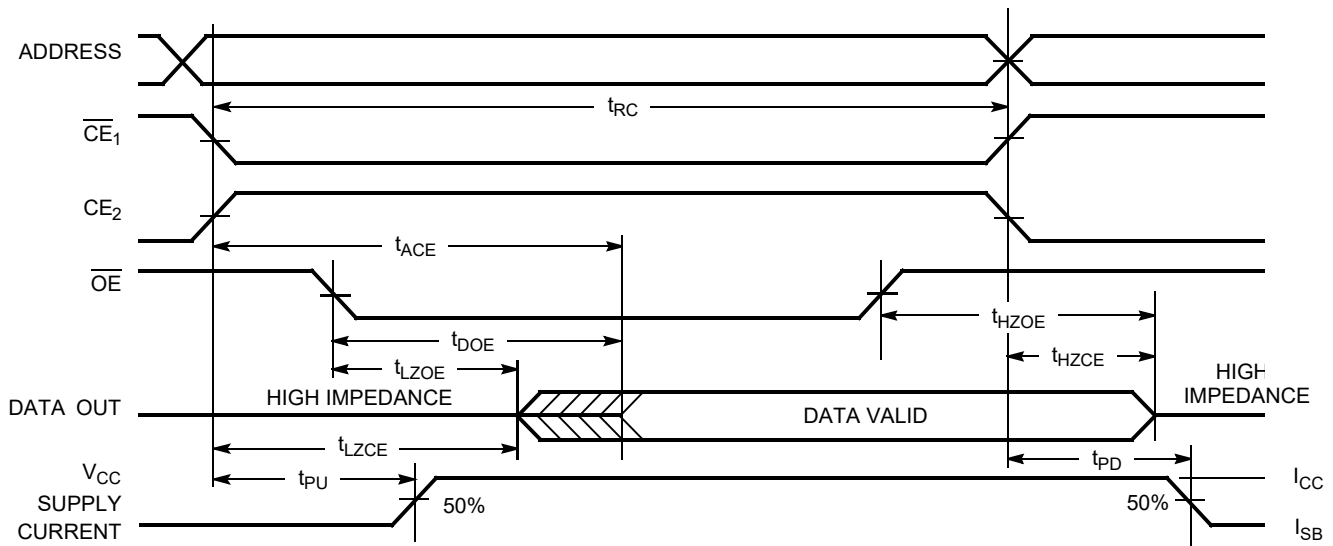


Figure 6. Read Cycle No. 2 (\overline{OE} Controlled) [20, 21]

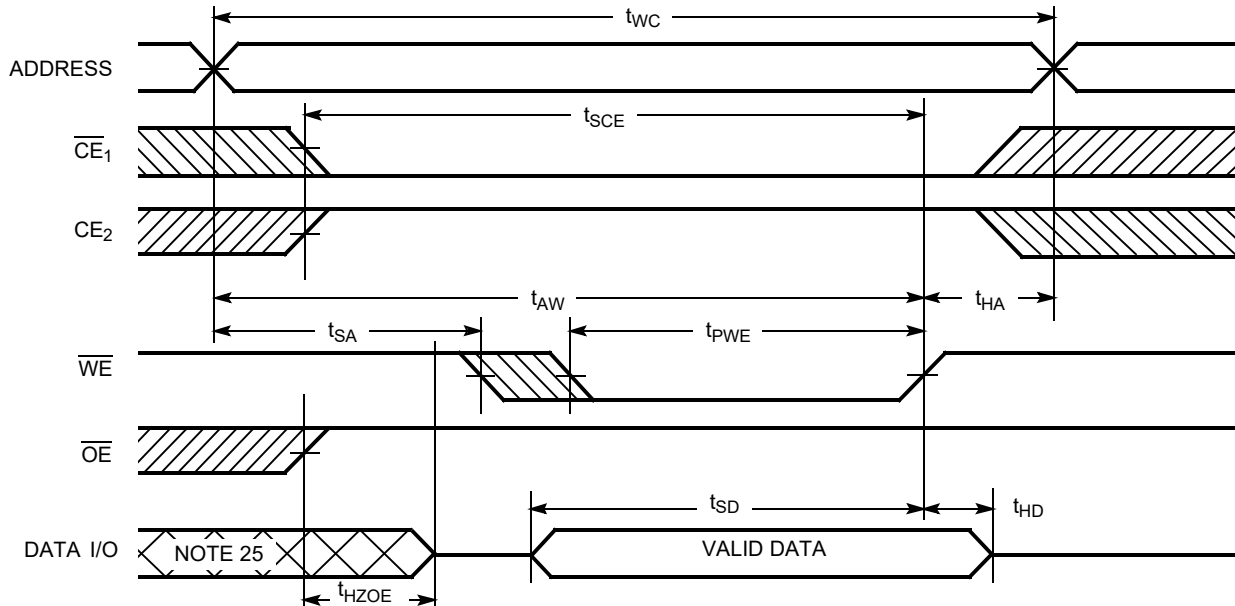
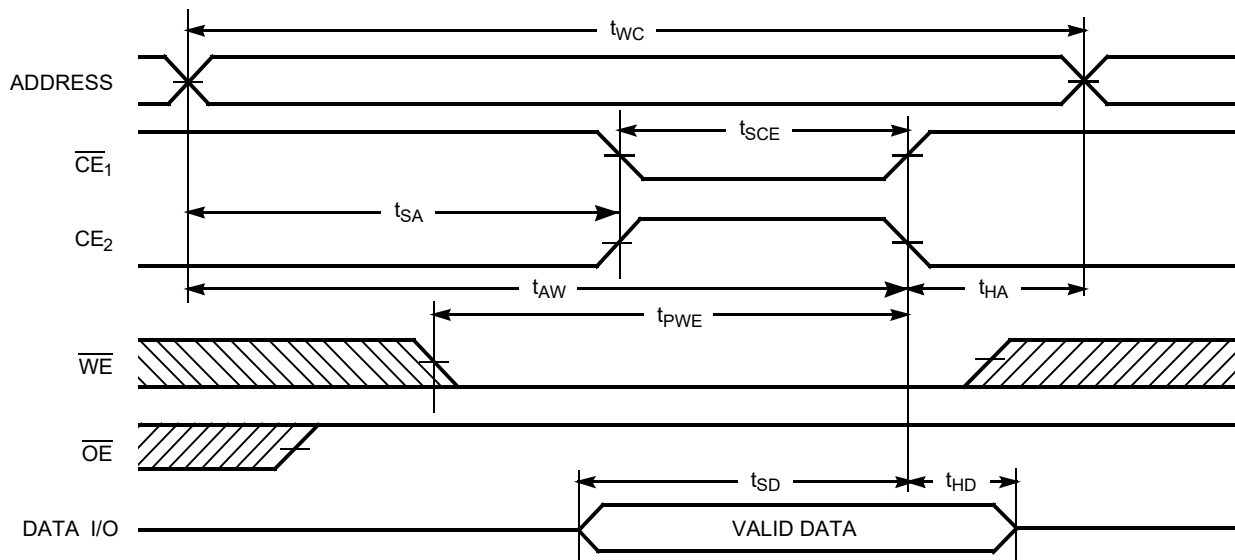


Notes

19. Device is continuously selected. \overline{OE} , $\overline{CE}_1 = V_{IL}$, $CE_2 = V_{IH}$.

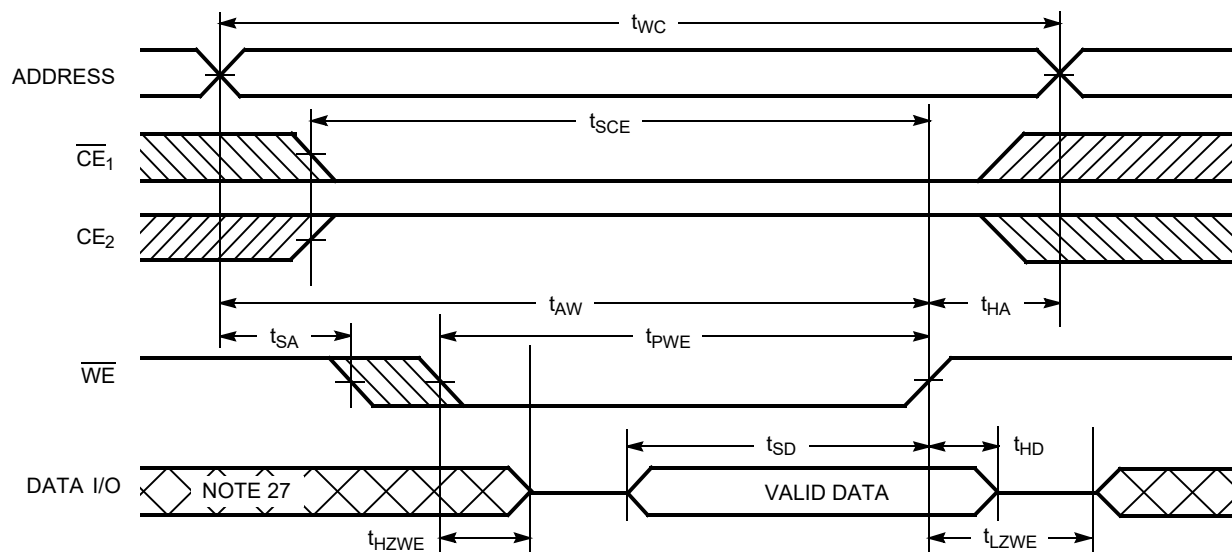
20. WE is HIGH for read cycle.

21. Address valid before or similar to \overline{CE}_1 transition LOW and CE_2 transition HIGH.

Switching Waveforms (continued)
Figure 7. Write Cycle No. 1 (\overline{WE} Controlled) [22, 23, 24]

Figure 8. Write Cycle No. 2 (\overline{CE}_1 or CE_2 Controlled) [22, 23, 24]

Notes

22. The internal write time of the memory is defined by the overlap of \overline{WE} , $\overline{CE}_1 = V_{IL}$, and $CE_2 = V_{IH}$. All signals must be ACTIVE to initiate a write and any of these signals can terminate a write by going INACTIVE. The data input setup and hold timing should be referenced to the edge of the signal that terminates the write.
23. Data I/O is high impedance if $\overline{OE} = V_{IH}$.
24. If \overline{CE}_1 goes HIGH or CE_2 goes LOW simultaneously with \overline{WE} HIGH, the output remains in high impedance state.
25. During this period, the I/Os are in output state. Do not apply input signals.

Switching Waveforms (continued)

Figure 9. Write Cycle No. 3 (\overline{WE} Controlled, \overline{OE} LOW) [26, 28]

Notes

26. If \overline{CE}_1 goes HIGH or \overline{CE}_2 goes LOW simultaneously with \overline{WE} HIGH, the output remains in high impedance state.
27. During this period, the I/Os are in output state. Do not apply input signals.
28. The minimum write cycle pulse width should be equal to the sum of t_{SD} and t_{HZWE} .

Truth Table

\overline{CE}_1	CE_2	\overline{WE}	\overline{OE}	Inputs/Outputs	Mode	Power
H	X ^[29]	X	X	High Z	Deselect/Power down	Standby (I_{SB})
X ^[29]	L	X	X	High Z	Deselect/Power down	Standby (I_{SB})
L	H	H	L	Data Out	Read	Active (I_{CC})
L	H	L	X	Data In	Write	Active (I_{CC})
L	H	H	H	High Z	Selected, Outputs Disabled	Active (I_{CC})

Note

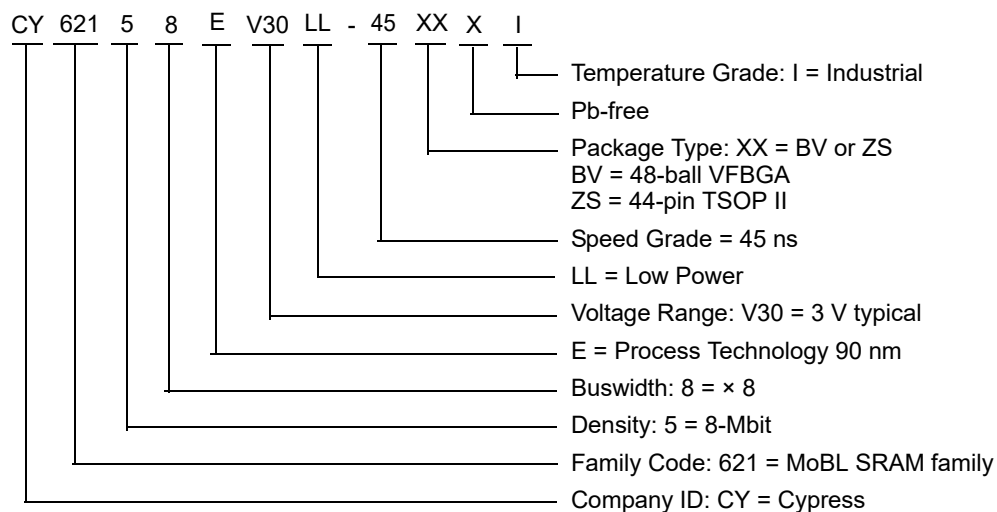
29. The 'X' (Don't care) state for the Chip enables in the truth table refer to the logic state (either HIGH or LOW). Intermediate voltage levels on these pins is not permitted.

Ordering Information

Speed (ns)	Ordering Code	Package Diagram	Package Type	Operating Range
45	CY62158EV30LL-45BVXI	51-85150	48-ball VFBGA (Pb-free)	Industrial
	CY62158EV30LL-45ZSXI	51-85087	44-pin TSOP Type II (Pb-free)	

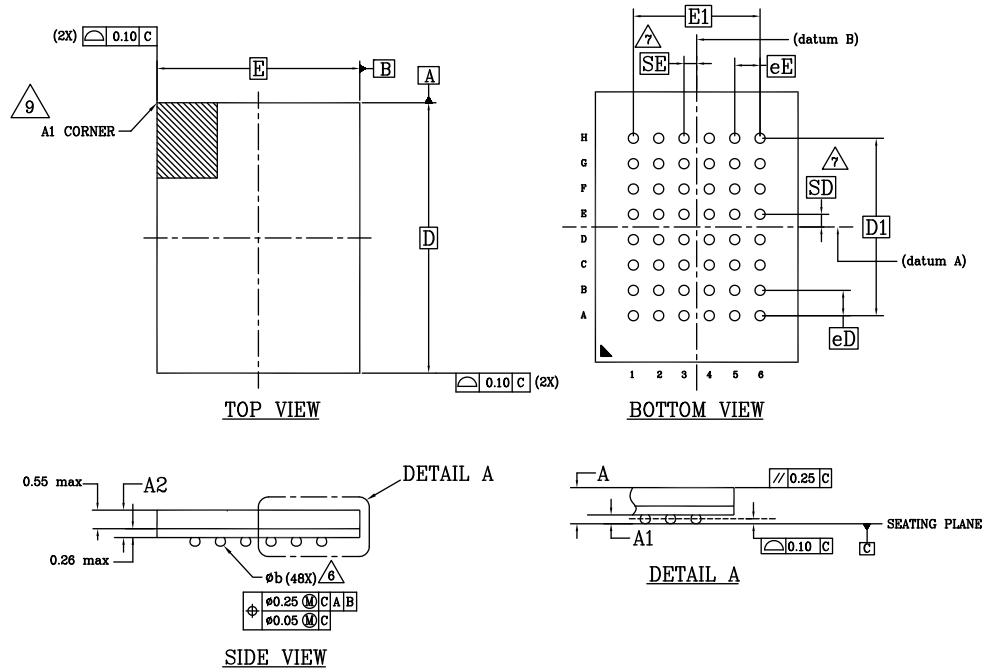
Contact your local Cypress sales representative for availability of these parts.

Ordering Code Definitions



Package Diagrams

Figure 10. 48-ball VFBGA (6 × 8 × 1 mm) BV48/BZ48 Package Outline, 51-85150

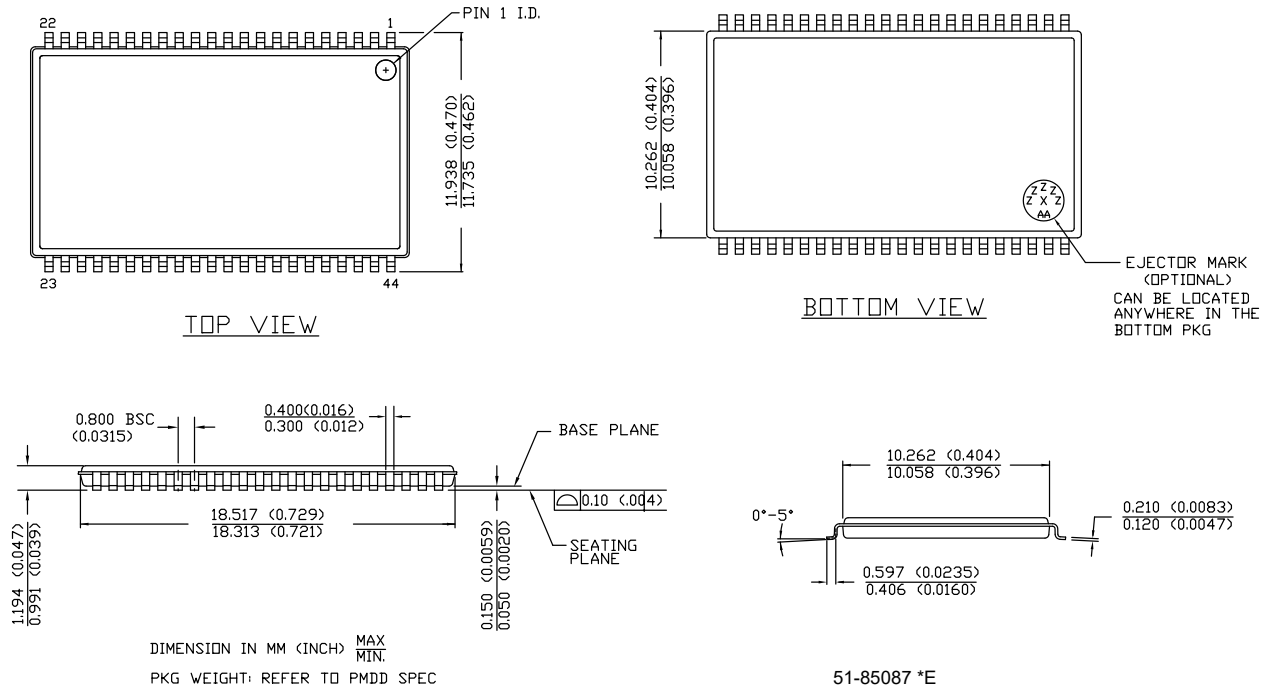


SYMBOL	DIMENSIONS		
	MIN.	NOM.	MAX.
A	-	-	1.00
A1	0.16	-	-
A2	-	-	0.81
D	8.00 BSC		
E	6.00 BSC		
D1	5.25 BSC		
E1	3.75 BSC		
MD	8		
ME	6		
n	48		
Ø b	0.25	0.30	0.35
eE	0.75 BSC		
eD	0.75 BSC		
SD	0.375 BSC		
SE	0.375 BSC		

NOTES:

- DIMENSIONING AND TOLERANCING METHODS PER ASME Y14.5M-2009.
- ALL DIMENSIONS ARE IN MILLIMETERS.
- BALL POSITION DESIGNATION PER JEP95, SECTION 3, SPP-020.
- SE REPRESENTS THE SOLDER BALL GRID PITCH.
- SYMBOL "MD" IS THE BALL MATRIX SIZE IN THE "D" DIRECTION.
SYMBOL "ME" IS THE BALL MATRIX SIZE IN THE "E" DIRECTION.
n IS THE NUMBER OF POPULATED SOLDER BALL POSITIONS FOR MATRIX SIZE MD X ME.
- DIMENSION "b" IS MEASURED AT THE MAXIMUM BALL DIAMETER IN A PLANE PARALLEL TO DATUM C.
- "SD" AND "SE" ARE MEASURED WITH RESPECT TO DATUMS A AND B AND DEFINE THE POSITION OF THE CENTER SOLDER BALL IN THE OUTER ROW.
WHEN THERE IS AN ODD NUMBER OF SOLDER BALLS IN THE OUTER ROW
"SD" OR "SE" = 0.
WHEN THERE IS AN EVEN NUMBER OF SOLDER BALLS IN THE OUTER ROW,
"SD" = eD/2 AND "SE" = eE/2.
- "*" INDICATES THE THEORETICAL CENTER OF DEPOPULATED BALLS.
- A1 CORNER TO BE IDENTIFIED BY CHAMFER, LASER OR INK MARK METALIZED MARK, INDENTATION OR OTHER MEANS.

51-85150 *I

Package Diagrams (continued)
Figure 11. 44-pin TSOP Z44-II Package Outline, 51-85087


Acronyms

Acronym	Description
$\overline{\text{CE}}$	Chip Enable
CMOS	Complementary Metal Oxide Semiconductor
I/O	Input/Output
$\overline{\text{OE}}$	Output Enable
RAM	Random Access Memory
SRAM	Static Random Access Memory
TTL	Transistor-Transistor Logic
TSOP	Thin Small Outline Package
VFBGA	Very Fine-Pitch Ball Grid Array
$\overline{\text{WE}}$	Write Enable

Document Conventions

Units of Measure

Symbol	Unit of Measure
°C	degree Celsius
MHz	megahertz
μA	microampere
μs	microsecond
mA	milliampere
mm	millimeter
ns	nanosecond
Ω	ohm
%	percent
pF	picofarad
V	volt
W	watt

Document History Page

Document Title: CY62158EV30 MoBL, 8-Mbit (1024K × 8) Static RAM Document Number: 38-05578			
Rev.	ECN No.	Submission Date	Description of Change
**	270329	09/28/2004	New data sheet.
*A	291271	11/19/2004	Changed status from Advance Information to Preliminary. Updated Data Retention Characteristics : Changed maximum value of I _{CCDR} parameter from 4 µA to 4.5 µA.
*B	444306	04/13/2006	<p>Converted from Preliminary to Final.</p> <p>Removed 35 ns Speed Bin related information in all instances across the document.</p> <p>Removed 44-pin TSOP II Package related information in all instances across the document.</p> <p>Included 48-pin TSOP I Package related information in all instances across the document.</p> <p>Removed "L" from the part numbers across the document.</p> <p>Updated Product Portfolio:</p> <p>Changed maximum value of "Operating I_{CC}" from 2.3 mA to 3 mA corresponding to "f = 1 MHz".</p> <p>Changed typical value of "Operating I_{CC}" from 16 mA to 18 mA corresponding to "f = f_{max}".</p> <p>Changed maximum value of "Operating I_{CC}" from 28 mA to 25 mA corresponding to "f = f_{max}".</p> <p>Changed typical value of "Standby I_{SB2}" from 0.9 µA to 2 µA.</p> <p>Changed maximum value of "Standby I_{SB2}" from 4.5 µA to 8 µA.</p> <p>Updated Electrical Characteristics:</p> <p>Changed typical value of I_{SB1} parameter from 0.9 µA to 2 µA.</p> <p>Changed maximum value of I_{SB1} parameter from 4.5 µA to 8 µA.</p> <p>Changed typical value of I_{SB2} parameter from 0.9 µA to 2 µA.</p> <p>Changed maximum value of I_{SB2} parameter from 4.5 µA to 8 µA.</p> <p>Updated AC Test Loads and Waveforms:</p> <p>Updated Figure 3 (Changed Test Load Capacitance from 50 pF to 30 pF).</p> <p>Updated Data Retention Characteristics:</p> <p>Added 2 µA as typical value for I_{CCDR} parameter.</p> <p>Changed maximum value of I_{CCDR} parameter from 4.5 µA to 5 µA.</p> <p>Changed minimum value of t_R parameter from 100 µs to t_{RC} ns.</p> <p>Updated Switching Characteristics:</p> <p>Changed minimum value of t_{LZOE} parameter from 3 ns to 5 ns corresponding to 45 ns speed bin.</p> <p>Changed minimum value of t_{LZCE} parameter from 6 ns to 10 ns corresponding to 45 ns speed bin.</p> <p>Changed maximum value of t_{HZCE} parameter from 22 ns to 18 ns corresponding to 45 ns speed bin.</p> <p>Changed minimum value of t_{PWE} parameter from 30 ns to 35 ns corresponding to 45 ns speed bin.</p> <p>Changed minimum value of t_{SD} parameter from 22 ns to 25 ns corresponding to 45 ns speed bin.</p> <p>Changed minimum value of t_{LZWE} parameter from 6 ns to 10 ns corresponding to 45 ns speed bin.</p> <p>Updated Ordering Information:</p> <p>Updated part numbers.</p> <p>Removed "Package Name" column.</p> <p>Added "Package Diagram" column.</p> <p>Updated Package Diagrams:</p> <p>spec 51-85150 – Changed revision from *B to *D.</p> <p>Removed spec 51-85087 *A.</p> <p>Added spec 51-85183 *A.</p> <p>Updated to new template.</p>

Document History Page (continued)

Document Title: CY62158EV30 MoBL, 8-Mbit (1024K × 8) Static RAM Document Number: 38-05578			
Rev.	ECN No.	Submission Date	Description of Change
*C	467052	06/06/2006	Included 44-pin TSOP II Package related information in all instances across the document. Updated Features : Added Note "For 48-pin TSOP I pin configuration and ordering information, please refer to CY62157EV30 Data sheet." and referred the same note in 48-pin TSOP I package. Updated Ordering Information : Updated part numbers. Updated Package Diagrams : Removed spec 51-85183 *A. Added spec 51-85087 *A,
*D	1015643	04/28/2007	Updated Electrical Characteristics : Added Note 7 and referred the same note in I _{SB2} parameter. Updated Data Retention Characteristics : Added Note 10 and referred the same note in I _{CCDR} parameter.
*E	2934396	06/03/2010	Updated Truth Table : Added Note 29 and referred the same note in "X" under \overline{CE}_1 and CE ₂ columns. Updated Package Diagrams : spec 51-85150 – Changed revision from *D to *E. spec 51-85087 – Changed revision from *A to *C. Updated to new template.
*F	3110202	12/14/2010	Updated Logic Block Diagram . Updated Ordering Information : No change in part numbers. Added Ordering Code Definitions . Updated Package Diagrams : spec 51-85150 – Changed revision from *E to *F.
*G	3269641	05/30/2011	Removed 48-pin TSOP I Package related information in all instances across the document. Updated Functional Description : Removed the note "For best practice recommendations, refer to the Cypress application note "System Design Guidelines" at http://www.cypress.com ." and its reference. Updated Data Retention Characteristics : Changed minimum value of t _R parameter from t _{RC} ns to 45 ns. Added Acronyms and Units of Measure . Updated to new template. Completing Sunset Review.
*H	3598409	04/24/2012	Updated Package Diagrams : spec 51-85150 – Changed revision from *F to *G. spec 51-85087 – Changed revision from *C to *D. Completing Sunset Review.
*I	4100078	08/20/2013	Updated Switching Characteristics : Added Note 13 and referred the same note in "Parameter" column. Updated Package Diagrams : spec 51-85150 – Changed revision from *G to *H. spec 51-85087 – Changed revision from *D to *E. Updated to new template.
*J	4576526	11/21/2014	Updated Functional Description : Added "For a complete list of related documentation, click here ." at the end. Updated Switching Characteristics : Added Note 18 and referred the same note in "Write Cycle". Updated Switching Waveforms : Added Note 28 and referred the same note in Figure 9 .

Document History Page (continued)

Document Title: CY62158EV30 MoBL, 8-Mbit (1024K × 8) Static RAM Document Number: 38-05578			
Rev.	ECN No.	Submission Date	Description of Change
*K	4790694	06/08/2015	Updated Maximum Ratings : Referred Notes 3, 4 in "Supply Voltage to Ground Potential". Updated to new template. Completing Sunset Review.
*L	5979591	11/29/2017	Updated Cypress Logo and Copyright.
*M	6819908	02/28/2020	Updated Features : Updated description. Updated Product Portfolio : Updated all values of "Operating I _{CC} " corresponding to "f = 1 MHz". Updated Electrical Characteristics : Updated all values of I _{CC} parameter corresponding to "45 ns" and "f = 1 MHz". Updated Thermal Resistance : Updated all values of Θ_{JA} , Θ_{JC} parameters corresponding to all packages. Updated Data Retention Characteristics : Updated all values of I _{CCDR} parameter. Updated Package Diagrams : spec 51-85150 – Changed revision from *H to *I. Updated to new template.

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