



# 16-Mbit (1 M words × 16 bit) Static RAM with Error-Correcting Code (ECC)

#### **Features**

- High speed
  - □ t<sub>AA</sub> = 10 ns
- Temperature range
  - □ Automotive-E: -40 °C to 125 °C
- Embedded error-correcting code (ECC) for single-bit error correction
- Low active and standby currents
  - □ I<sub>CC</sub> = 90-mA typical at 100 MHz
  - $\square$  I<sub>SB2</sub> = 20-mA typical
- Operating voltage range: 2.2 V to 3.6 V
- 1.0-V data retention
- Transistor-transistor logic (TTL) compatible inputs and outputs
- Available in Pb-free 48-ball VFBGA and 48-pin TSOP I packages

### **Functional Description**

CY7C1061G<sup>[1]</sup> is a high-performance CMOS fast static RAM automotive part with embedded ECC. ECC logic can detect and correct single-bit error in read data word during read cycles.

This device has single chip en<u>able</u> input and is accessed by asserting the chip enable input (CE) LOW.

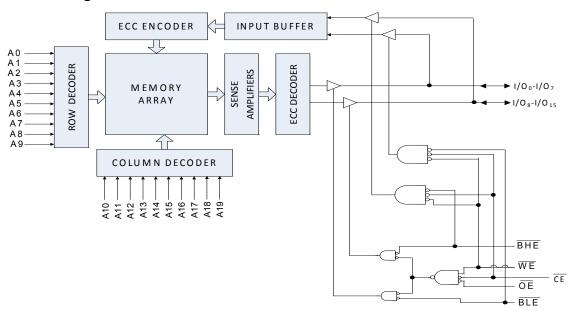
To perform data writes, assert the Write Enable ( $\overline{\text{WE}}$ ) input LOW and provide the data and address on the device data pins (I/O<sub>0</sub> through I/O<sub>15</sub>) and address pins (A<sub>0</sub> through A<sub>19</sub>) respectively. The Byte High Enable ( $\overline{\text{BHE}}$ ) and Byte Low Enable ( $\overline{\text{BLE}}$ ), inputs control byte writes and write data on the corresponding I/O lines to the memory location specified. BHE controls I/O<sub>8</sub> through I/O<sub>15</sub> and  $\overline{\text{BLE}}$  controls I/O<sub>0</sub> through I/O<sub>7</sub>.

To perform data reads, assert the Output Enable  $(\overline{OE})$  input and provide the required address on the address lines. Read data is accessible on I/O lines (I/O $_0$  through I/O $_{15}$ ). You can perform byte accesses by asserting the required byte enable signal (BHE or  $\overline{BLE}$ ) to read either the upper byte or the lower byte of data from the specified address location.

All I/Os (I/O<sub>0</sub> through I/O<sub>15</sub>) are <u>placed</u> in a high-impedance state when the devi<u>ce</u> is <u>deselected</u> ( $\overline{\text{CE}}$  HIGH), or control signals are de-asserted ( $\overline{\text{OE}}$ ,  $\overline{\text{BLE}}$ ,  $\overline{\text{BHE}}$ ). Refer to the below logic block diagram.

The CY7C1061G automotive device is available in 48-ball VFBGA and 48-pin TSOP I packages.

# Logic Block Diagram - CY7C1061G



#### Note

1. The device does not support automatic write-back on error detection.

# **CY7C1061G Automotive**



# **Contents**

Pin Configurations	3
Product Portfolio	
Maximum Ratings	
Operating Range	
DC Electrical Characteristics	4
Capacitance	5
Thermal Resistance	5
AC Test Loads and Waveforms	
Data Retention Characteristics	6
Data Retention Waveform	
AC Switching Characteristics	
Switching Waveforms	
Truth Table	

Ordering Information	13
Ordering Code Definitions	
Package Diagrams	
Acronyms	15
Document Conventions	
Units of Measure	15
Document History Page	16
Sales, Solutions, and Legal Information	
Worldwide Sales and Design Support	
Products	
PSoC® Solutions	18
Cypress Developer Community	18
Technical Support	



# **Pin Configurations**

Figure 1. 48-ball VFBGA (6 × 8 × 1.0 mm) Pinout [2]

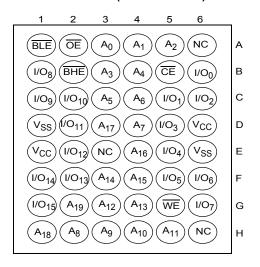
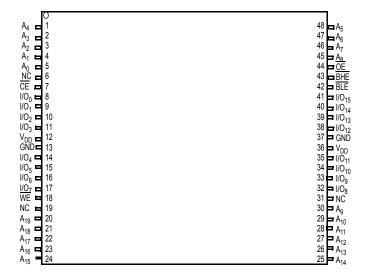


Figure 2. 48-pin TSOP I (12 × 18.4 × 1 mm) Pinout<sup>[2]</sup>



#### **Product Portfolio**

				Current Cor Operating $I_{CC}$ (mA) $f = f_{max}$		onsumption		
Product	Pango	V. Pango (V)	Speed			Standby	I. (mA)	
Product	Range	V <sub>CC</sub> Range (V)	(ns)			Standby, I <sub>SB2</sub> (mA)		
				<b>Typ</b> <sup>[3]</sup>	Max	<b>Typ</b> <sup>[3]</sup>	Max	
CY7C1061G30	Automotive	2.2 V-3.6 V	10	90	160	20	50	

NC pins are not connected internally to the die.

NC pins are not connected internally to the die.
 Typical values are included only for reference and are not guaranteed or tested. Typical values are measured at V<sub>CC</sub> = 3 V, T<sub>A</sub> = 25 °C.



# **Maximum Ratings**

Current into outputs (LOW)	20 mA
Static discharge voltage (MIL-STD-883, Method 3015)	>2001 V
Latch-up current	

# **Operating Range**

Grade	Ambient Temperature	V <sub>CC</sub>	
Automotive-E	–40 °C to +125 °C	2.2 V to 3.6 V	

#### **DC Electrical Characteristics**

Over the operating range of -40 °C to 125 °C

Dovernator	Door	vinti on	Toot Condit	liana		Unit		
Parameter	Desc	cription	Test Condit	Min	<b>Typ</b> <sup>[5]</sup>	Max	Oilit	
		2.2 V to 2.7 V	$V_{\rm CC}$ = Min, $I_{\rm OH}$ = -1.0 m	A	2.0	-	-	
$V_{OH}$	Output HIGH voltage	2.7 V to 3.0 V	$V_{\rm CC}$ = Min, $I_{\rm OH}$ = -4.0 m	A	2.2	-	-	V
	, c.tage	3.0 V to 3.6 V	$V_{\rm CC}$ = Min, $I_{\rm OH}$ = -4.0 m	A	2.4	-	-	
V	Output LOW	2.2 V to 2.7 V	V <sub>CC</sub> = Min, I <sub>OL</sub> = 2 mA		_	-	-	V
V <sub>OL</sub>	voltage	2.7 V to 3.6 V	V <sub>CC</sub> = Min, I <sub>OL</sub> = 8 mA		_	-	0.4	V
V <sub>IH</sub> <sup>[4]</sup>	Input HIGH	2.2 V to 2.7 V	_		2.0	-	V <sub>CC</sub> + 0.3	V
I VIH.	voltage	2.7 V to 3.6 V	-		2.0	-	V <sub>CC</sub> + 0.3	V
V <sub>IL</sub> <sup>[4]</sup>	Input LOW voltage	2.2 V to 2.7 V	_		-0.3	-	0.6	V
VIL.		2.7 V to 3.6 V	_		-0.3	-	0.8	V
I <sub>IX</sub>	Input leakage	current	$GND \le V_{IN} \le V_{CC}$		-5.0	-	+5.0	μΑ
I <sub>OZ</sub>	Output leakag	je current	GND $\leq$ V <sub>OUT</sub> $\leq$ V <sub>CC</sub> , Out		-5.0	-	+5.0	μΑ
Icc	Operating sup	pply current	V <sub>CC</sub> =Max, I <sub>OUT</sub> =0 mA, CMOS levels	$f = f_{MAX} = 1/t_{RC}$	_	90.0	160.0	mA
I <sub>SB1</sub>	Automatic CE current – TTL		$\begin{array}{c} \text{Max V}_{\text{CC}}, \overline{\text{CE}} \geq \text{V}_{\text{IH}}, \\ \text{V}_{\text{IN}} \geq \text{V}_{\text{IH}} \text{ or V}_{\text{IN}} \leq \text{V}_{\text{IL}}, \text{ f} : \end{array}$	= f <sub>MAX</sub>	_	_	60.0	mA
I <sub>SB2</sub>	Automatic CE current – CM0		$\begin{aligned} &\text{Max V}_{\text{CC}}, \overline{\text{CE}} \geq \text{V}_{\text{CC}} - 0.\\ &\text{V}_{\text{IN}} \geq \text{V}_{\text{CC}} - 0.2 \text{ V or V}_{\text{IN}} \end{aligned}$		_	20.0	50.0	mA

<sup>4.</sup>  $V_{IL}$  (min) = -2.0 V and  $V_{IH}$  (max) =  $V_{CC}$  +2 V for pulse durations of less than 20 ns.

<sup>5.</sup> Typical values are included only for reference and are not guaranteed or tested. Typical values are measured at  $V_{CC}$  = 3 V,  $T_A$  = 25 °C.



# Capacitance

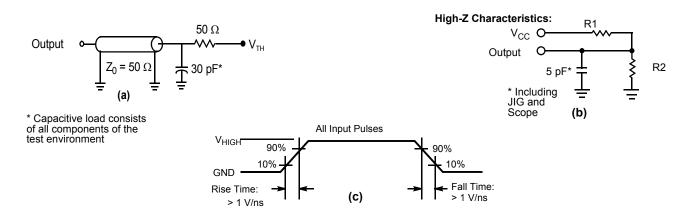
Parameter <sup>[6]</sup>	Description	Test Conditions	All Packages	Unit
C <sub>IN</sub>	Input capacitance	$T_A = 25 ^{\circ}\text{C}$ , $f = 1 \text{MHz}$ , $V_{CC} = V_{CC(typ)}$	10	pF
C <sub>OUT</sub>	I/O capacitance	$\frac{1}{1}$ $\frac{1}$	10	pF

#### **Thermal Resistance**

Parameter <sup>[6]</sup>	Description	Test Conditions	48-ball VFBGA	48-pin TSOP I	Unit
$\Theta_{JA}$	Thermal resistance (junction to ambient)	Still air, soldered on a 3 × 4.5 inch, four	31.50	57.99	°C/W
Θ <sub>JC</sub>	Thermal resistance (junction to case)	layer printed circuit board	15.75	13.42	°C/W

#### **AC Test Loads and Waveforms**

Figure 3. AC Test Loads and Waveforms<sup>[7]</sup>



Parameters	3.0 V	Unit
R1	317	Ω
R2	351	Ω
V <sub>TH</sub>	1.5	V
V <sub>HIGH</sub>	3	V

- 6. Tested initially and after any design or process changes that may affect these parameters.
   7. Full-device AC operation assumes a 100-μs ramp time from 0 to V<sub>CC</sub>(min) and 100-μs wait time after V<sub>CC</sub> stabilizes to its operational value.



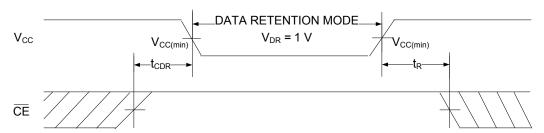
#### **Data Retention Characteristics**

Over the operating range of -40 °C to 125 °C

Parameter	Description	Conditions	Min	Max	Unit
$V_{DR}$	V <sub>CC</sub> for data retention	-	1.0	-	V
I <sub>CCDR</sub>	Data retention current	$V_{CC} = V_{DR}, \overline{CE} \ge V_{CC} - 0.2 \text{ V},$ $V_{IN} \ge V_{CC} - 0.2 \text{ V or } V_{IN} \le 0.2 \text{ V}$	-	50.0	mA
t <sub>CDR</sub> <sup>[8]</sup>	Chip deselect to data retention time	-	0	-	ns
t <sub>R</sub> <sup>[8]</sup>	Operation recovery time	V <sub>CC</sub> ≥ 2.2 V	10.0	_	ns

### **Data Retention Waveform**

Figure 4. Data Retention Waveform<sup>[9]</sup>



- 8. Tested initially and after any design or process changes that may affect these parameters.
   9. Full device operation requires linear V<sub>CC</sub> ramp from V<sub>DR</sub> to V<sub>CC</sub>(min) ≥ 100 μs or stable at V<sub>CC</sub>(min) ≥ 100 μs.



# **AC Switching Characteristics**

Over the operating range of -40 °C to 125 °C

Parameter <sup>[10</sup>	Description	10	10 ns		
Parameter	Description	Min	Max	Unit	
Read Cycle					
t <sub>POWER</sub>	V <sub>CC</sub> (stable) to the first access <sup>[11]</sup>	100.0	_	μS	
t <sub>RC</sub>	Read cycle time	10.0	_	ns	
t <sub>AA</sub>	Address to data	_	10.0	ns	
t <sub>OHA</sub>	Data hold from address change	3.0	_	ns	
t <sub>ACE</sub>	CE LOW to data	_	10.0	ns	
t <sub>DOE</sub>	OE LOW to data	_	5.0	ns	
t <sub>LZOE</sub>	OE LOW to low-Z <sup>[12, 13]</sup>	0	_	ns	
t <sub>HZOE</sub>	OE HIGH to high-Z <sup>[12, 13]</sup>	_	5.0	ns	
t <sub>LZCE</sub>	CE LOW to low-Z <sup>[12, 13]</sup>	3.0	_	ns	
t <sub>HZCE</sub>	CE HIGH to high-Z <sup>[12, 13]</sup>	-	5.0	ns	
t <sub>PU</sub>	CE LOW to power-up <sup>[14]</sup>	0	_	ns	
t <sub>PD</sub>	CE HIGH to power-down <sup>[14]</sup>	_	10.0	ns	
t <sub>DBE</sub>	Byte enable to data valid	_	5.0	ns	
t <sub>LZBE</sub>	Byte enable to low-Z <sup>[12, 13]</sup>	0	_	ns	
t <sub>HZBE</sub>	Byte disable to high-Z <sup>[12, 13]</sup>	_	6.0	ns	
Write Cycle <sup>[15</sup>	5, 16]	<u>.</u>		•	
t <sub>WC</sub>	Write cycle time	10.0	_	ns	
t <sub>SCE</sub>	CE LOW to write end	7.0	_	ns	
t <sub>AW</sub>	Address setup to write end	7.0	_	ns	
t <sub>HA</sub>	Address hold from write end	0	_	ns	
t <sub>SA</sub>	Address setup to write start	0	_	ns	
t <sub>PWE</sub>	WE pulse width	7.0	_	ns	
t <sub>SD</sub>	Data setup to write end	5.0	_	ns	
t <sub>HD</sub>	Data hold from write end	0	_	ns	
t <sub>LZWE</sub>	WE HIGH to low-Z <sup>[12, 13]</sup>	3.0	_	ns	
t <sub>HZWE</sub>	WE LOW to high-Z <sup>[12, 13]</sup>	-	5.0	ns	
t <sub>BW</sub>	Byte Enable to write end	7.0	_	ns	

Notes

10. Test conditions assume signal transition time (rise/fall) of 3 ns or less, timing reference levels of 1.5 V (for V<sub>CC</sub> ≥ 3 V) and V<sub>CC</sub>/2 (for V<sub>CC</sub> < 3 V), and input pulse levels of 0 to 3 V (for V<sub>CC</sub> ≥ 3 V) and 0 to V<sub>CC</sub> (for V<sub>CC</sub> < 3 V). Test conditions for the read cycle use the output loading shown in part (a) of Figure 3 on page 5, unless specified otherwise.

11. t<sub>POWER</sub> gives the minimum amount of time that the power supply is at stable V<sub>CC</sub> until the first memory access is performed.

12. t<sub>HZOE</sub>, t<sub>HZVE</sub>, and t<sub>HZBE</sub> are specified with a load capacitance of 5 pF, as shown in part (b) of Figure 3 on page 5. Hi-Z, Lo-Z transition is measured ±200 mV from steady state voltage.

13. At any temperature and voltage condition, t<sub>HZCE</sub> is less than t<sub>LZCE</sub>, t<sub>HZBE</sub> is less than t<sub>LZDE</sub>, t<sub>HZOE</sub> is less than t<sub>LZWE</sub> for any device.

14. These parameters are guaranteed by design and are not tested.

<sup>14.</sup> These parameters are guaranteed by design and are not tested.

15. The internal write time of the memory is defined by the overlap of WE = V<sub>IL</sub>, CE = V<sub>IL</sub> and BHE, or BLE = V<sub>IL</sub>. These signals must be LOW to initiate a write, and the HIGH transition of any of these signals can terminate the operation. The input data setup and hold timing should be referenced to the edge of the signal that terminates

<sup>16.</sup> The minimum write pulse width for Write Cycle No. 2 ( $\overline{\text{WE}}$  Controlled,  $\overline{\text{OE}}$  LOW) should be sum of  $t_{\text{HZWE}}$  and  $t_{\text{SD}}$ .



# **Switching Waveforms**

Figure 5. Read Cycle No. 1 of CY7C1061G (Address Transition Controlled)[17, 18]

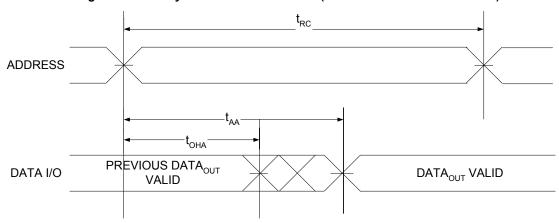
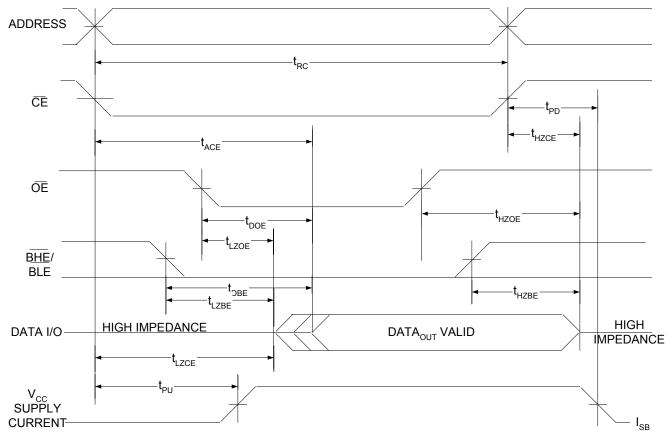


Figure 6. Read Cycle No. 2 (OE Controlled)[18, 19]



<sup>17.</sup> The device is continuously selected,  $\overline{OE} = V_{IL}$ ,  $\overline{CE} = V_{IL}$ ,  $\overline{BHE}$  or  $\overline{BLE}$  or both =  $V_{IL}$ . 18. WE is HIGH for read cycle.

<sup>19.</sup> Address valid prior to or coincident with  $\overline{\text{CE}}$  LOW transition.



### Switching Waveforms (continued)

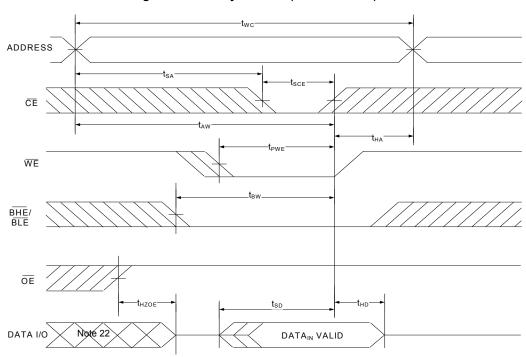
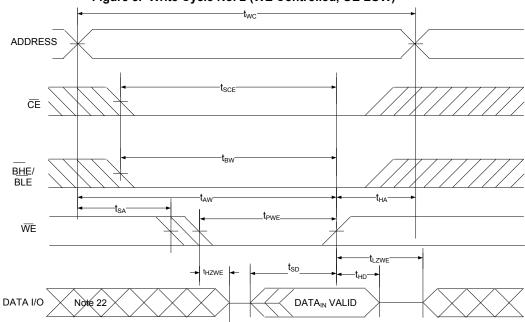


Figure 7. Write Cycle No. 1 (CE Controlled)[20, 21]





- 20. The internal write time of the memory is defined by the overlap of WE = V<sub>IL</sub>, CE = V<sub>IL</sub>, and BHE or BLE = V<sub>IL</sub>. These signals must be LOW to initiate a write and the HIGH transition of any of these signals can terminate the operation. The input data setup and hold timing should be referenced to the edge of the signal that terminates the write.

- 21. Data I/O is in high-impedance state if  $\overline{CE} = V_{IH}$ , or  $\overline{OE} = V_{IH}$  or  $\overline{BHE}$ , and/or  $\overline{BLE} = V_{IH}$ .

  22. During this period, the I/Os are in output state. Do not <u>app</u>ly input sign<u>als</u>.

  23. The minimum write pulse width for Write Cycle No. 2 (WE Controlled,  $\overline{OE}$  LOW) should be sum of t<sub>HZWE</sub> and t<sub>SD</sub>.



# Switching Waveforms (continued)

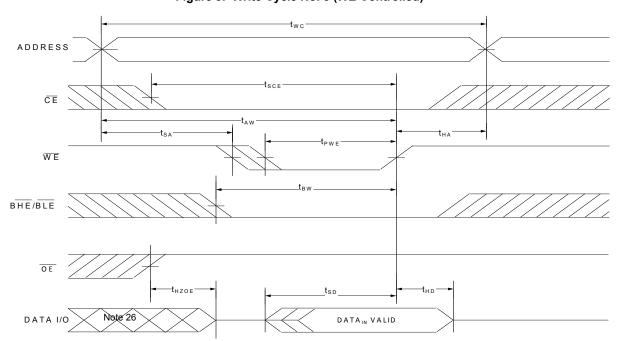


Figure 9. Write Cycle No. 3 ( $\overline{\text{WE}}$  Controlled)[24, 25]

<sup>24.</sup> The internal write time of the memory is defined by the overlap of WE = V<sub>IL</sub>, CE = V<sub>IL</sub>, and BHE or BLE = V<sub>IL</sub>. These signals must be LOW to initiate a write, and the HIGH transition of any of these signals can terminate the operation. The input data setup and hold timing should be referenced to the edge of the signal that terminates

<sup>25.</sup> Data I/O is in high impedance state if  $\overline{CE} = V_{IH}$ , or  $\overline{OE} = V_{IH}$  or  $\overline{BHE}$ , and/or  $\overline{BLE} = V_{IH}$ . 26. During this period the I/Os are in output state. Do not apply input signals.



# Switching Waveforms (continued)

Figure 10. Write Cycle No. 3 (BLE or BHE Controlled)<sup>[27, 28]</sup> **ADDRESS**  $t_{HA}$ BHE/ BLE  $\mathsf{t}_\mathsf{PWE}$ t<sub>HD</sub> t<sub>HZWE</sub> DATA<sub>IN</sub> VALID

Notes

27. The internal write time of the memory is defined by the overlap of WE = V<sub>IL</sub>, CE = V<sub>IL</sub>, and BHE or BLE = V<sub>IL</sub>. These signals must be LOW to initiate a write, and the HIGH transition of any of these signals can terminate the operation. The input data setup and hold timing should be referenced to the edge of the signal that terminates

<sup>28.</sup> Data I/O is in high-impedance state if  $\overline{CE} = V_{IH}$ , or  $\overline{OE} = V_{IH}$  or  $\overline{BHE}$ , and/or  $\overline{BLE} = V_{IH}$ .

<sup>29.</sup> During this period, the I/Os are in output state. Do not apply input signals.



# **Truth Table**

CE	OE	WE	BLE	BHE	I/O <sub>0</sub> –I/O <sub>7</sub>	I/O <sub>8</sub> -I/O <sub>15</sub>	Mode	Power
Н	X <sup>[30]</sup>	X <sup>[30]</sup>	X[30]	X <sup>[30]</sup>	High Z	High Z	Power down	Standby (I <sub>SB</sub> )
L	L	Н	L	L	Data out	Data out	Read all bits	Active (I <sub>CC</sub> )
L	L	Η	L	Ι	Data out	High Z	Read lower bits only	Active (I <sub>CC</sub> )
L	L	Н	Η	L	High Z	Data out	Read upper bits only	Active (I <sub>CC</sub> )
L	Х	L	L	L	Data in	Data in	Write all bits	Active (I <sub>CC</sub> )
L	Х	L	L	Ι	Data in	High Z	Write lower bits only	Active (I <sub>CC</sub> )
L	Х	L	Η	L	High Z	Data in	Write upper bits only	Active (I <sub>CC</sub> )
L	Н	Н	Х	Х	High Z	High Z	Selected, outputs disabled	Active (I <sub>CC</sub> )
L	Х	Х	Н	Н	High Z	High Z	Selected, outputs disabled	Active (I <sub>CC</sub> )

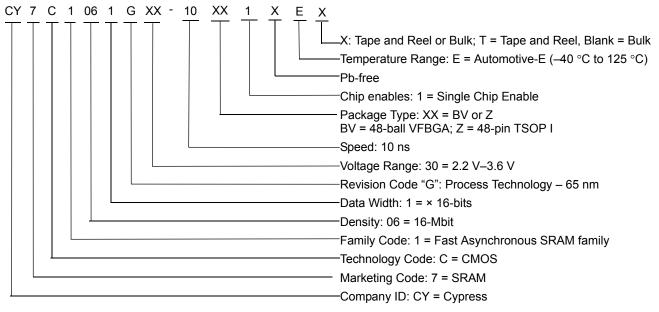
 $\mbox{\bf Note}$  30. The input voltage levels on these pins should be either at  $\mbox{V}_{\mbox{\scriptsize IH}}$  or  $\mbox{V}_{\mbox{\scriptsize IL}}.$ 



# **Ordering Information**

Speed (ns)	Voltage Range	Ordering Code	Package Diagram	Package Type (all Pb-free)	Operating Range
	2.2 V-3.6 V	CY7C1061G30-10BV1XE	E1 9E1E0	48-ball VFBGA (6 × 8 × 1.0 mm) (Pb-free)	- Automotive-E
10		CY7C1061G30-10BV1XET	31-03130		
10		CY7C1061G30-10ZXE	51-85183	48-pin TSOP I (12 × 18.4 × 1.0 mm) (Pb-free)	
		CY7C1061G30-10ZXET			

### **Ordering Code Definitions**





# **Package Diagrams**

NOTE:

Figure 11. 48-ball VFBGA (6 × 8 × 1.0 mm) BV48/BZ48 Package Outline, 51-85150

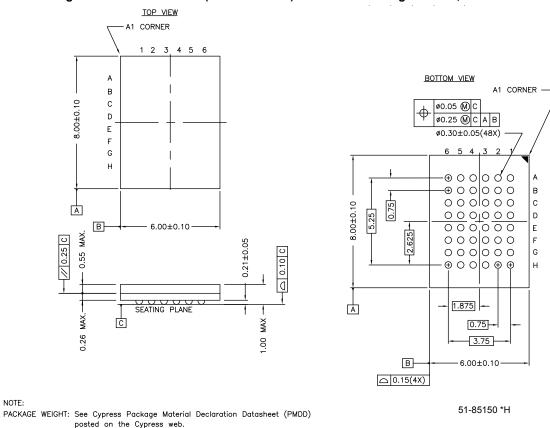
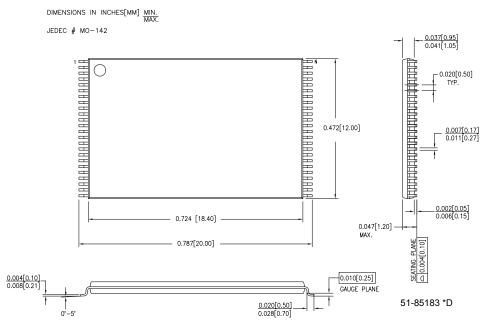


Figure 12. 48-pin TSOP I (12 × 18.4 × 1.0 mm) Z48A Package Outline, 51-85183





# **Acronyms**

Table 1. Acronyms Used in this Document

Acronym	Description
BHE	Byte High Enable
BLE	Byte Low Enable
CE	Chip Enable
CMOS	Complementary Metal Oxide Semiconductor
I/O	Input/Output
ŌĒ	Output Enable
SRAM	Static Random Access Memory
TSOP	Thin Small Outline Package
TTL	Transistor-Transistor Logic
VFBGA	Very Fine-Pitch Ball Grid Array
WE	Write Enable

# **Document Conventions**

#### **Units of Measure**

Table 2. Units of Measure

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



# **Document History Page**

ocument Title: CY7C1061G Automotive, 16-Mbit (1 M words × 16 bit) Static RAM with Error-Correcting Code (ECC) ocument Number: 001-84821				
Rev.	ECN No.	Orig. of Change	Date	Description of Change
**	3825225	MEMJ	11/29/2012	New data sheet.
*A	4003550	NILE	05/20/2013	Updated Document Title to read as "CY7C1061G Automotive, 16-Mbit (1 Mords × 16 bit) Static RAM with Error-Correcting Code (ECC)".  Updated Features.  Updated Functional Description.  Removed "Logic Block Diagram – CY7C1061GE".  Updated Logic Diagram for Single Chip Enable.  Updated Pin Configurations:  Updated Product Portfolio.  Updated Product Portfolio.  Updated Operating Range.  Updated Capacitance.  Updated Thermal Resistance.  Updated Data Retention Characteristics.  Updated AC Switching Characteristics:  Removed 12 ns, 17 ns speed bin related information and included 10 ns spe bin related information.  Updated Switching Waveforms.  Removed "ERR Output – CY7C1061GE".  Updated Package Diagrams:  Added 48-pin TSOP I Package Diagram (Figure 11).
*B	4292074	MEMJ	02/28/2014	Updated Features: Mentioned frequency of measurement for I <sub>CC</sub> (typical). Updated Functional Description: Replaced "an error detection" with "a single-bit error detection". Added Note 1 (for ECC) and referred the same note in CY7C1061G. Updated Product Portfolio: Replaced CY7C1061G with CY7C1061G30. Updated Operating Range: Replaced Automotive with Automotive-E. Updated DC Electrical Characteristics: Added typical value for I <sub>CC</sub> parameter (90 mA). Added typical value for I <sub>SB2</sub> parameter (20 mA). Added Note 5 and referred the same note in "Typ" column. Updated AC Switching Characteristics: Added Note 11 and referred the same note in description of t <sub>POWER</sub> parameter Added Note 13 and referred the same note in description of t <sub>LZOE</sub> , t <sub>HZOE</sub> , t <sub>LZOE</sub> , t <sub>HZOE</sub> , t <sub>LZOE</sub> , and t <sub>HZWE</sub> parameters. Added Note 16 and referred the same note in "Write Cycle". Updated Switching Waveforms: Added Note 22 and referred the same note in Figure 7 and Figure 8. Added Note 23 and referred the same note in Figure 9 (to indicate that I/O are in output state). Added Note 29 and referred the same note in Figure 10 (to indicate that I/O are in output state).



# **Document History Page** (continued)

Rev.	ECN No.	Orig. of Change	Submission Date	Description of Change	
*B (cont.)	4292074	MEMJ	02/28/2014	Updated Truth Table: Added Note 30 and referred the same note in "X" corresponding to Power down mode. Added condition to place outputs in disable state by making both BHE and BLE HIGH. Added Errata. Updated to new template.	
*C	4330547	AJU	04/02/2014	No technical updates.	
*D	4397546	AJU	06/03/2014	Updated AC Switching Characteristics: Updated Note 12 (Removed t <sub>LZOE</sub> , t <sub>LZCE</sub> , t <sub>LZWE</sub> , and t <sub>LZBE</sub> ; and added Hi-Z, Lo-Z transition).	
*E	4469360	NILE	09/18/2014	No technical updates.	
*F	4576640	VINI	11/21/2014	No technical updates.	
*G	4800949	NILE	09/30/2015	Updated Logic Block Diagram – CY7C1061G. Updated Package Diagrams: spec 51-85183 – Changed revision from *C to *D. Removed Errata. Updated to new template.	
*H	4983893	NILE	10/28/2015	Changed status from Preliminary to Final.	
*	5435164	VINI	09/13/2016	Updated DC Electrical Characteristics: Updated the VOH values. Updated Note 4. Updated Ordering Code Definitions: Added Tape and Reel parts. Updated Copyright and Disclaimer.	



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