

CY62256N

256-Kbit (32 K × 8) Static RAM

Features

- Temperature ranges □ Commercial: 0 °C to +70 °C □ Industrial: -40 °C to +85 °C □ Automotive-A: -40 °C to +85 °C □ Automotive-E: -40 °C to +125 °C
- High speed: 55 ns
- Voltage range: 4.5 V to 5.5 V operation
- Low active power □ 275 mW (max)
- Low standby power (LL version)
 □ 82.5 µW (max)
- Easy memory expansion with CE and OE Features
- TTL-compatible inputs and outputs
- Automatic power-down when deselected
- CMOS for optimum speed and power
- Available in Pb-free and non Pb-free 28-pin (600-mil) PDIP, 28-pin (300-mil) narrow SOIC, 28-pin TSOP I, and 28-pin reverse TSOP I packages

Logic Block Diagram

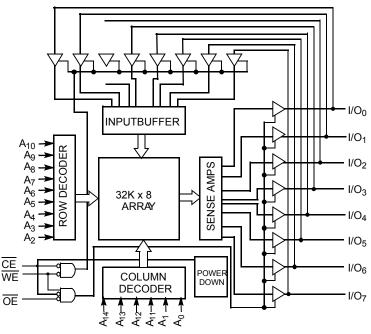
Functional Description

The CY62256N is a high performance CMOS static RAM organized as 32K words by 8 bits. Easy memory expansion is provided by an <u>active LOW</u> chip enable (\overline{CE}) and active LOW output enable (\overline{OE}) and tristate drivers. This device has an automatic power-down feature, reducing the power consumption by 99.9 percent when deselected.

An active LOW write enable signal ($\overline{\text{WE}}$) controls the writing/reading operation of the memory. When CE and $\overline{\text{WE}}$ inputs are both LOW, data on the eight data input/output pins (I/O₀ through I/O₇) is written into the memory location addressed by the address present on the address pins (A₀ through A₁₄). Reading the device is accomplished by selecting the device and enabling the outputs, CE and OE active LOW, while WE remains inactive or HIGH. Under these conditions, the contents of the location addressed by the information on address pins are present on the eight data input/output pins.

The input/output pins remain in a high impedance state unless the chip is selected, outputs are enabled, and write enable (WE) is HIGH.

For a complete list of related documentation, click here.



198 Champion Court • San Jose, CA 95134-1709 • 408-943-2600 Revised April 28, 2017



Contents

3
3
3
4
4
4
5
5
5
6
6
7
8
10

Truth Table	11
Ordering Information	12
Ordering Code Definitions	
Package Diagrams	
Acronyms	15
Document Conventions	
Units of Measure	15
Document History Page	16
Sales, Solutions, and Legal Information	17
Worldwide Sales and Design Support	17
Products	17
PSoC® Solutions	
Cypress Developer Community	17
Technical Support	



Product Portfolio

Product		v	a Range ()	Λ		Power Dissipation				
		V _{CC} Range (V)			Speed (ns)	Operating, I _{CC} (mA)		Standby, I _{SB2} (μA)		
		Min	Typ ^[1]	Мах		Typ ^[1]	Max	Typ ^[1]	Мах	
CY62256NLL	Commercial	4.5	5.0	5.5	70	25	50	0.1	5	
CY62256NLL	Industrial				55/70	25	50	0.1	10	
CY62256NLL	Automotive-A				55/70	25	50	0.1	10	
CY62256NLL	Automotive-E				55	25	50	0.1	15	

Pin Configurations

Figure 1. 28-pin DIP and Narrow SOIC pinout

	P	Narro	w SOIC
Бор	View	Top \	/iew
A5 [1]	28 V _{CC}	A5 [1 O	28 VCC
A6 [2	27 WE	A6 [2	27 WE
A7 [3	26 A4	A7 [3	26 A4
A8 [4	25 A3	A8 [4	25 A3
A9 [5	24 A2	A9 [5	24 A2
A10 [6	23 A1	A10 [6	23 A1
A11 [7	22 OE	A11 [7	22 OE
A12 [8	21 A0	A12 [8	21 A0
A13 [9	20 CE	A13 [9	20 CE
A14 [10	19 W07	A14 [10	19 I/07
I/O ₀ [11	18 W06	I/O ₀ [11	18 I/06
I/O ₁ [12	17 W05	I/O ₁ [12	17 I/05
I/O ₂ [13	16 W04	I/O ₂ [13	16 I/04
GND 14	15 🛛 VO3	GND 014	15 1/03

Figure 2. 28-pin TSOP I and Reverse TSOP I pinout

OE 22 A1 223 A2 224 A3 225 A3 225 A3 225 A3 225 A3 225 A3 225 A4 225 A4 225 A4 225 A4 225 A4 225 A4 225 A4 225 A4 225 A4 225 A 226 A 227 A 226 A 227 A 226 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2	TSOP I Top View (not to scale)	21 A ₀ 20 CE 19 1/07 18 1/06 17 1/06 16 1/04 16 1/04 16 1/04 11 1/05 12 1/05 12 1/01 11 1/05 12 1/01 11 1/05 12 A13 8 A12
A11 A10 A9 A9 A7 A9 A7 A9 A7 A9 A7 A9 A7 A9 A7 A9 A7 A9 A7 A9 A7 A9 A7 A9 A7 A9 A7 A9 A9 A9 A9 A9 A9 A9 A9 A9 A9	TSOP I Reverse Pinout Top View (not to scale)	8 A 12 9 A 13 10 A 14 11 D I/O 12 D I/O 14 D I/O 16 D I/O 16 D I/O 19 D C 19 D C 19 D C 19 D C 19 D C 20 A 12 10 A 14 10 D A 14

Pin Definitions

Pin Number	Туре	Description
1–10, 21, 23–26	Input	A ₀ -A ₁₄ . Address Inputs
11–13, 15–19,	Input/Output	I/O ₀ –I/O ₇ . Data lines. Used as input or output lines depending on operation
27	Input/Control	WE. When selected LOW, a WRITE is conducted. When selected HIGH, a READ is conducted
20	Input/Control	CE. When LOW, selects the chip. When HIGH, deselects the chip
22		OE . Output Enable. Controls the direction of the I/O pins. When LOW, the I/O pins behave as outputs. When deasserted HIGH, I/O pins are tristated, and act as input data pins
14	Ground	GND. Ground for the device
28	Power Supply	V _{CC} . Power supply for the device

Note 1. Typical specifications are the mean values measured over a large sample size across normal production process variations and are taken at nominal conditions (T_A = 25 °C, V_{CC}). Parameters are guaranteed by design and characterization, and not 100% tested.



Maximum Ratings

Exceeding maximum ratings may impair the useful life of the device. These user guidelines are not tested.

Storage temperature65 °C to +150 °C
Ambient temperature with power applied55 °C to +125 °C
Supply voltage to ground potential (pin 28 to pin 14) $^{[2]}$ 0.5 V to +7.0 V
DC voltage applied to outputs in high Z State $^{[2]}$ 0.5 V to V_{CC} + 0.5 V
DC input voltage ^[2] –0.5 V to V_{CC} + 0.5 V

Output current into outputs (LOW)	.20 mA
Static discharge voltage	
(per MIL-STD-883, method 3015) >	2001 V
Latch-up current > 2	200 mA

Operating Range

Range	Ambient Temperature (T _A) ^[3]	V _{cc}
Commercial	0 °C to +70 °C	$5~V\pm10\%$
Industrial	–40 °C to +85 °C	$5~V\pm10\%$
Automotive-A	–40 °C to +85 °C	$5~V\pm10\%$
Automotive-E	–40 °C to +125 °C	$5~V\pm10\%$

Electrical Characteristics

Over the Operating Range

Demonstern	Description	Test Conditions			-55			Unit			
Parameter	Description	lest Con	aitions	Min	Typ ^[4]	Мах	Min	Typ ^[4]	Max	Unit	
V _{OH}	Output HIGH voltage	V_{CC} = Min, I _{OH} = -1.0 mA			-	-	2.4	-	-	V	
V _{OL}	Output LOW voltage	V _{CC} = Min, I _{OL} = 2.1	mA	-	-	0.4	_	-	0.4	V	
V _{IH}	Input HIGH voltage				-	V _{CC} + 0.5	2.2	-	V _{CC} + 0.5	V	
V _{IL}	Input LOW voltage			-0.5	-	0.8	-0.5	-	0.8	V	
I _{IX}	Input leakage current	$GND \le V_I \le V_{CC}$		-0.5	-	+0.5	-0.5	-	+0.5	μA	
I _{OZ}	Output leakage current	$GND \leq V_O \leq V_{CC},$ output disabled		-0.5	-	+0.5	-0.5	-	+0.5	μA	
I _{CC}	V _{CC} operating supply current		V _{CC} = Max,	LL - Commercial	-	-	-	_	25	50	mA
		pply current $I_{OUT} = 0 \text{ mA},$ $f = f_{MAX} = 1/t_{RC}$	LL - Industrial	_	25	50	_	25	50	mA	
			LL - Automotive-A	-	25	50	_	25	50	mA	
			LL - Automotive-E	-	25	50	-	-	-	mA	
I _{SB1}	Automatic CE	Max. V_{CC} , $\overline{CE} \ge V_{IH}$,	LL - Commercial	_	-	-	_	0.3	0.5	mA	
	power-down current – TTL	$V_{IN} \ge V_{IH}$ or $V_{IN} \le V_{IL}$, f = f _{MAX}	LL - Industrial	Ι	0.3	0.5	—	0.3	0.5	mA	
	inputs		LL - Automotive-A	Ι	0.3	0.5	—	0.3	0.5	mA	
			LL - Automotive-E	Ι	0.3	0.5	—	-	-	mA	
I _{SB2}	Automatic CE	Max. V _{CC} ,	LL - Commercial	_	-	-	_	0.1	5	μA	
	power-down current – CMOS	$\overline{CE} \ge V_{CC}^{\circ} - 0.3 \text{ V},$ $V_{IN} \ge V_{CC} - 0.3 \text{ V}, \text{ or }$	LL - Industrial	Ι	0.1	10	_	0.1	10	μA	
	inputs	$V_{IN} \le 0.3 \text{ V}, \text{ f} = 0$	LL - Automotive-A	I	0.1	10	_	0.1	10	μA	
			LL - Automotive-E	_	0.1	15	-	-	_	μA	

Notes

V_{IL} (min) = -2.0 V for pulse durations of less than 20 ns.
 T_A is the "Instant-On" case temperature.
 Typical specifications are the mean values measured over a large sample size across normal production process variations and are taken at nominal conditions (T_A = 25 °C, V_{CC}). Parameters are guaranteed by design and characterization, and not 100% tested.



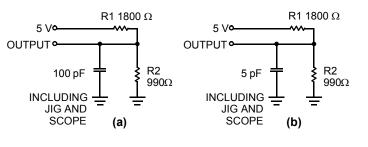
Capacitance

Parameter ^[5]	Description	Test Conditions	Max	Unit
C _{IN}	Input capacitance	T _A = 25 °C, f = 1 MHz, V _{CC} = 5.0 V	6	pF
C _{OUT}	Output capacitance		8	pF

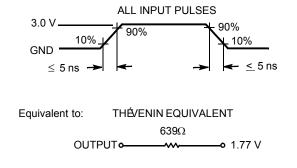
Thermal Resistance

Parameter ^[5]	Description	Test Conditions	DIP	SOIC	TSOP	RTSOP	Unit
θ_{JA}	(junction to ambient)	Still air, soldered on a 4.25 × 1.125 inch,	75.61	76.56	93.89	93.89	°C/W
θ ^{JC}	Thermal resistance (junction to case)	4-layer printed circuit board	43.12	36.07	24.64	24.64	°C/W

AC Test Loads and Waveforms





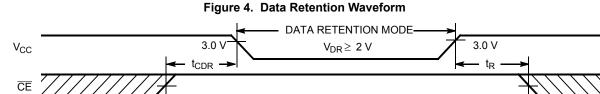




Data Retention Characteristics

Parameter	De	escription	Conditions ^[6]	Min	Тур ^[7]	Max	Unit
V _{DR}	V _{CC} for data retention			2.0	-	-	V
I _{CCDR}	Data retention current			-	0.1	5	μA
		LL – Industrial/ Automotive-A		-	0.1	10	μA
		LL – Automotive-E		-	0.1	10	μA
t _{CDR} ^[7]	Chip deselect to data retention time			0	-	-	ns
t _R ^[7]	Operation recovery time		CY62256NLL-55	55	-	-	ns
			CY62256NLL-70	70	_	-	

Data Retention Waveform



Notes

6. No input may exceed V_{CC} + 0.5 V.
 7. Typical specifications are the mean values measured over a large sample size across normal production process variations and are taken at nominal conditions (T_A = 25 °C, V_{CC}). Parameters are guaranteed by design and characterization, and not 100% tested.



Switching Characteristics

Over the Operating Range

Parameter ^[8]	Description	CY622	CY62256N-55		CY62256N-70	
Parameter ¹⁰¹	Description	Min	Max	Min	Мах	Unit
Read Cycle						
t _{RC}	Read cycle time	55	-	70	-	ns
t _{AA}	Address to data valid	-	55	-	70	ns
t _{OHA}	Data hold from address change	5	-	5	-	ns
t _{ACE}	CE LOW to data valid	-	55	-	70	ns
t _{DOE}	OE LOW to data valid	-	25	-	35	ns
t _{LZOE}	OE LOW to low Z ^[9]	5	-	5	-	ns
t _{HZOE}	OE HIGH to high Z ^[9, 10]	-	20	-	25	ns
t _{LZCE}	CE LOW to low Z ^[9]	5	-	5	-	ns
t _{HZCE}	CE HIGH to high Z ^[9, 10]	-	20	-	25	ns
t _{PU}	CE LOW to power-up	0	-	0	-	ns
t _{PD}	CE HIGH to power-down	-	55	-	70	ns
Write Cycle [11,	12]					
t _{WC}	Write cycle time	55	-	70	-	ns
t _{SCE}	CE LOW to write end	45	-	60	-	ns
t _{AW}	Address setup to write end	45	-	60	-	ns
t _{HA}	Address hold from write end	0	-	0	-	ns
t _{SA}	Address setup to write start	0	-	0	-	ns
t _{PWE}	WE pulse width	40	-	50	-	ns
t _{SD}	Data setup to write end	25	-	30	-	ns
t _{HD}	Data hold from write end	0	-	0	-	ns
t _{HZWE}	WE LOW to high Z ^[9, 10]	-	20	-	25	ns
t _{LZWE}	WE HIGH to low Z ^[9]	5	-	5	-	ns

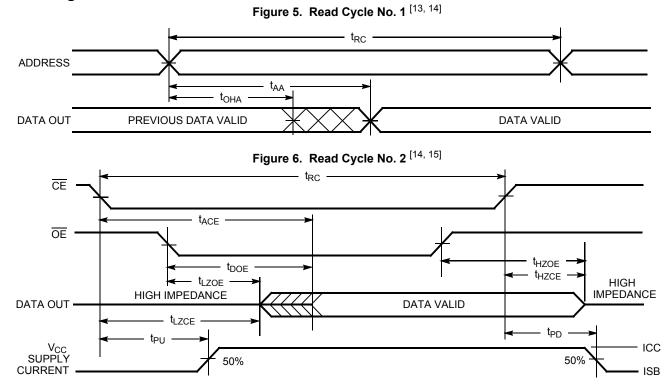
Notes

Test conditions assume signal transition time of 5 ns or less, timing reference levels of 1.5 V, input pulse levels of 0 to 3.0 V, and output loading of the specified I_{OL}/I_{OH} and 100-pF load capacitance.

9. At any 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 device.
10. t_{HZCE}, t_{HZCE}, and t_{HZWE} are specified with C_L = 5 pF as in (b) of <u>AC</u> Test Loads. Transition is measured ±500 mV from steady-state voltage.
11. The internal Write time of the memory is defined by the overlap of CE LOW and WE LOW. Both signals must be LOW to initiate a Write and either signal can terminate a Write by going HIGH. The data input setup and hold timing should <u>be</u> referenced to the rising edge of the signal that terminates the Write.
12. The minimum write cycle time for Write Cycle No. 3 (WE Controlled, OE LOW) is the sum of tHzwE and tsp.



Switching Waveforms

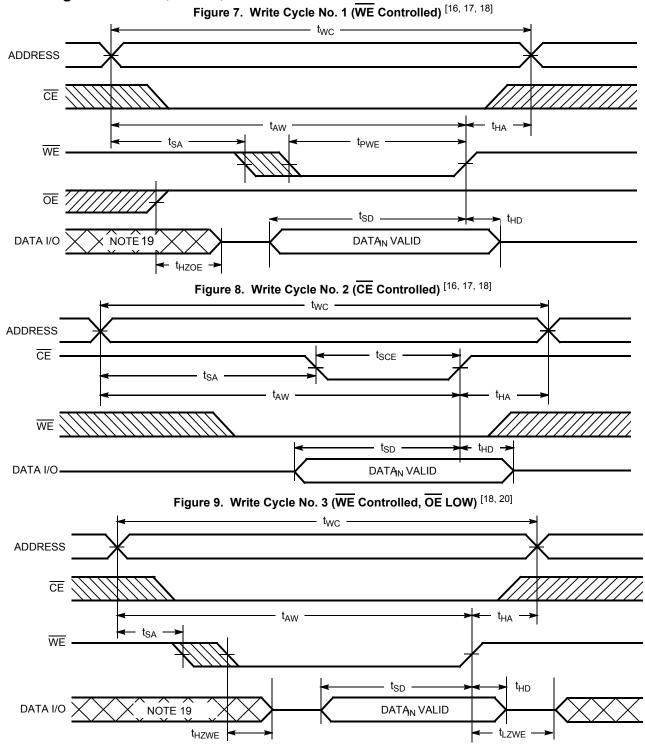


Notes

- 13. Device is continuously selected. OE, CE = V_{IL}.
 14. WE is HIGH for Read cycle.
 15. Address valid prior to or coincident with CE transition LOW.



Switching Waveforms (continued)



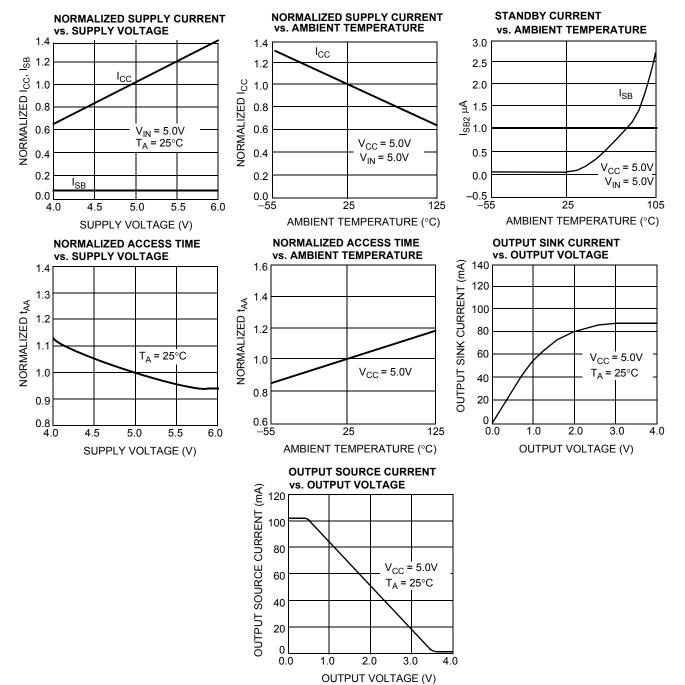
Notes

- 16. The internal Write time of the memory is defined by the overlap of CE LOW and WE LOW. Both signals must be LOW to initiate a Write and either signal can terminate a Write by going HIGH. The data input setup and hold timing should be referenced to the rising edge of the signal that terminates the Write.
- 17. Data I/O is high impedance if $\overline{OE} = V_{|H|}$. 18. If \overline{OE} goes HIGH simultaneously with WE HIGH, the output remains in a high-impedance state.
- 19. During this period, the I/Os are in output state and input signals should not be applied.
- 20. The minimum write cycle pulse width should be equal to the sum of tSD and tHZWE.



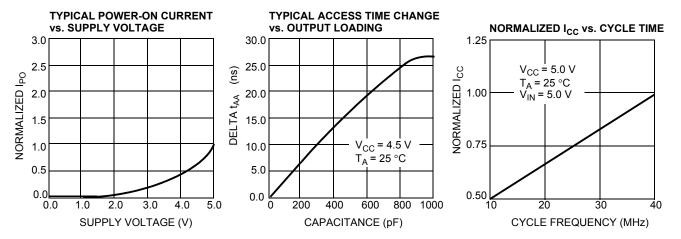


Typical DC and AC Characteristics





Typical DC and AC Characteristics (continued)



Truth Table

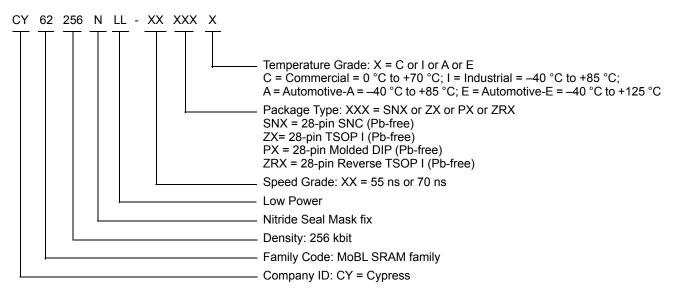
CE	WE	OE	Inputs/Outputs	Mode	Power
Н	Х	Х	High Z	Deselect/power-down	Standby (I _{SB})
L	Н	L	Data Out	Read	Active (I _{CC})
L	L	Х	Data In	Write	Active (I _{CC})
L	Н	Н	High Z	Output Disabled	Active (I _{CC})



Ordering Information

Speed (ns)	Ordering Code	Package Diagram	Package Type	Operating Range
55	CY62256NLL-55SNXI	51-85092	28-pin SNC (300 Mils) Narrow Body (Pb-free)	Industrial
	CY62256NLL-55ZXI	51-85071	28-pin TSOP I (Pb-free)	
	CY62256NLL-55ZXA	51-85071	28-pin TSOP I (Pb-free)	Automotive-A
	CY62256NLL-55SNXE	51-85092	28-pin SNC (300 Mils) Narrow Body (Pb-free)	Automotive-E
	CY62256NLL-55ZXE	51-85071	28-pin TSOP I (Pb-free)	
70	CY62256NLL-70PXC	51-85017	28-pin (600 Mil) Molded DIP (Pb-free)	Commercial
	CY62256NLL-70SNXC	51-85092	28-pin SNC (300 Mils) Narrow Body (Pb-free)	
	CY62256NLL-70ZRXI	51-85074	28-pin Reverse TSOP I (Pb-free)	Industrial
	CY62256NLL-70SNXA	51-85092	28-pin SNC (300 Mils) Narrow Body (Pb-free)	Automotive-A

Ordering Code Definitions





Package Diagrams

Figure 10. 28-pin PDIP (1.480 × 0.550 × 0.195 Inches) P28.6/PZ28.6 Package Outline, 51-85017

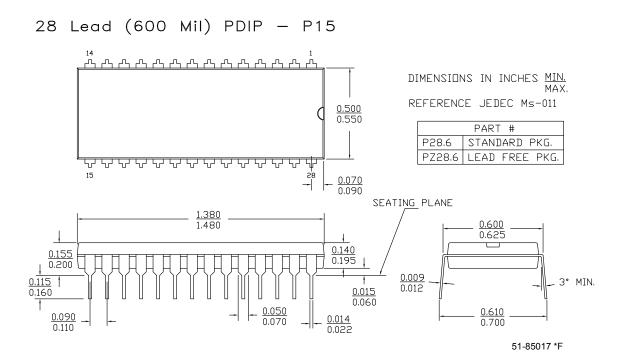
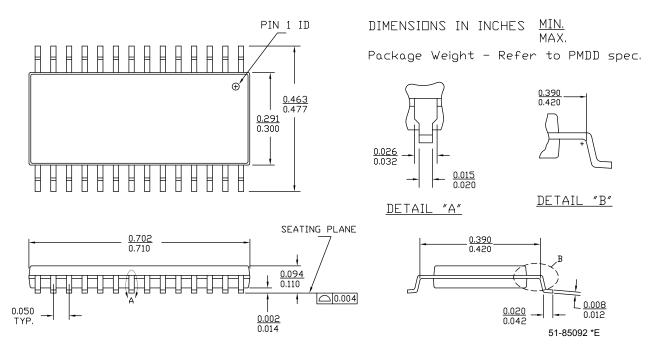


Figure 11. 28-pin SNC (300 Mils) SN28.3 (Narrow Body) Package Outline, 51-85092







Package Diagrams (continued)

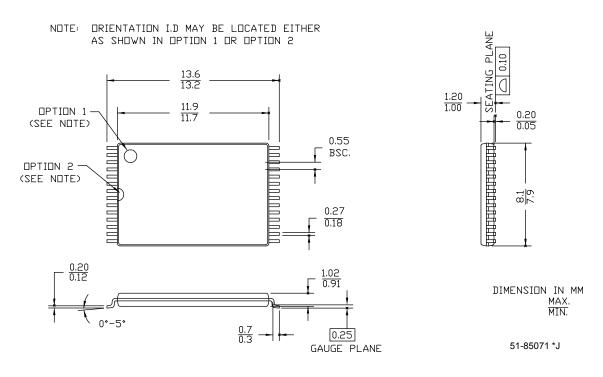


Figure 12. 28-pin TSOP I (8 × 13.4 × 1.2 mm) Z28 (Standard) Package Outline, 51-85071

Figure 13. 28-pin TSOP I (8 × 13.4 mm) Package Outline - Reverse, 51-85074

NDTE: DRIENTATION I.D MAY BE LOCATED EITHER AS SHOWN IN OPTION 1 DR OPTION 2 DIMENSION IN MM SEATING PLANE MAX. MIN. 10 Ī <u>13.6</u> 13.2 $\frac{1.20}{1.00}$ 11.9 11.7 0.20 0.05 0.55 Ł B.S.C OPTION 2 -(SEE NOTE) Ĭ עמחחחח <u>7.9</u> \cap 0.27 0.18 \bigcirc OPTION 1-(SEE NOTE) 0.20 0.12 _ <u>1.02</u> ß 0°-5° $\frac{0.7}{0.3}$ -51-85074 *H



Acronyms

Acronym	Description
CMOS	Complementary Metal Oxide Semiconductor
I/O	Input/Output
SRAM	Static Random Access Memory
TSOP	Thin Small Outline Package
VFBGA	Very Fine-Pitch Ball Grid Array

Document Conventions

Units of Measure

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



Document History Page

Revision	ECN	Orig. of Change	Submission Date	Description of Change
**	426504	NXR	See ECN	New data sheet.
*A	488954	NXR	See ECN	Added Automotive product Updated ordering Information table
*B	2715270	VKN / AESA	06/05/2009	Updated POD of 28-Pin (600-Mil) Molded DIP package (Spec# 51-85017)
*C	2891344	VKN	03/12/2010	Added Table of Contents Removed "L" product information Updated Ordering Information table Updated Package Diagrams (Figure 10, Figure 11, and Figure 12) Updated Sales, Solutions, and Legal Information
*D	3119519	AJU	01/04/2011	Updated Ordering Information. Added Ordering Code Definitions.
*E	3329873	RAME	07/27/11	Updated template and styles according to current Cypress standards. Added acronyms and units. Removed reference to AN1064 SRAM system guidelines. Updated operation recovery time parameter under Data Retention Characteristics on page 6.
*F	3433878	TAVA	11/09/11	Updated Package Diagrams.
*G	4122787	VINI	09/13/2013	Updated Package Diagrams: spec 51-85092 – Changed revision from *D to *E. Updated in new template. Completing Sunset Review.
*H	4525875	VINI	10/06/2014	Updated Maximum Ratings: Referred Note 2 in "Supply voltage to ground potential (pin 28 to pin 14)". Updated Package Diagrams: spec 51-85071 – Changed revision from *I to *J. spec 51-85074 – Changed revision from *G to *H. Completing Sunset Review.
*	4576406	VINI	01/16/2015	Added related documentation hyperlink in page 1. Added Note 12 in Switching Characteristics. Added note reference 12 in the Switching Characteristics table. Added Note 20 in Switching Waveforms. Added note reference 20 in Figure 9. Updated Figure 10 in Package Diagrams (spec 51-85017 *E to *F).
*J	5718683	AESATMP7	04/28/2017	Updated Cypress Logo and Copyright.



Sales, Solutions, and Legal Information

Worldwide Sales and Design Support

Cypress maintains a worldwide network of offices, solution centers, manufacturer's representatives, and distributors. To find the office closest to you, visit us at Cypress Locations.

Products

Automotive	cypress.com/go/automotive
Clocks & Buffers	cypress.com/go/clocks
Interface	cypress.com/go/interface
Lighting & Power Control	cypress.com/go/powerpsoc
Memory	cypress.com/go/memory
PSoC	cypress.com/go/psoc
Touch Sensing	cypress.com/go/touch
USB Controllers	cypress.com/go/USB
Wireless/RF	cypress.com/go/wireless

PSoC[®] Solutions

psoc.cypress.com/solutions PSoC 1 | PSoC 3 | PSoC 4 | PSoC 5LP| PSoC 6

Cypress Developer Community Community | Forums | Blogs | Video | Training

Technical Support cypress.com/go/support

© Cypress Semiconductor Corporation, 2006-2017. This document is the property of Cypress Semiconductor Corporation and its subsidiaries, including Spansion LLC ("Cypress"). This document, including any software or firmware included or referenced in this document ("Software"), is owned by Cypress under the intellectual property laws and treaties of the United States and other countries worldwide. Cypress reserves all rights under such laws and treaties and other countries to not otherwise have a written agreement with Cypress governing the use of the Software is not accompanied by a license agreement and you do not otherwise have a written agreement with Cypress governing the use of the Software, then Cypress hardware produce the Software solely for use with Cypress hardware produce the Software solely for use with Cypress hardware products, only internally within your organization, and (b) to distribute the Software in binary code form externally to end users (either directly or indirectly through resellers and distributors), solely for use on Cypress hardware product units, and (2) under those claims of Cypress's patents that are infringed by the Software (as provided by Cypress, unmodified) to make, use, distribute, and import the Software solely for use with Cypress hardware products. Any other use, reproduction, modification, translation, or compilation of the Software is prohibited.

TO THE EXTENT PERMITTED BY APPLICABLE LAW, CYPRESS MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARD TO THIS DOCUMENT OR ANY SOFTWARE OR ACCOMPANYING HARDWARE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. To the extent permitted by applicable law, Cypress reserves the right to make changes to this document without further notice. Cypress does not assume any liability arising out of the application or use of any product or circuit described in this document. Any information provided in this document, including any sample design information or programming code, is provided only for reference purposes. It is the responsibility of the user of this document to properly design, program, and test the functionality and safety of any application made of this information and any resulting product. Cypress products are not designed, intended, or authorized for use as critical components in systems designed or intended for the operation of weapons, weapons systems, nuclear installations, life-support devices or systems, other medical devices or systems (including resuctitation equipment and surgical implants), pollution control or hazardous substances management, or other uses where the failure of the device or system could cause personal injury, death, or property damage ("Unintended Uses"). A critical component is any component of a device or system whose failure to perform can be reasonably expected to cause the failure of the device or system, or to affect its safety or effectiveness. Cypress is not liable, in whole or in part, and you shall and hereby do release Cypress from any claim, damage, or other liability arising from or related to all Unintended Uses of Cypress products. You shall indemnify and hold Cypress harmless from and against all claims, costs, damages, and other liabilities, including claims for personal injury or death, arising from or related to any Unintended Uses of Cypress products.

Cypress, the Cypress logo, Spansion, the Spansion logo, and combinations thereof, WICED, PSoC, CapSense, EZ-USB, F-RAM, and Traveo are trademarks or registered trademarks of Cypress in the United States and other countries. For a more complete list of Cypress trademarks, visit cypress.com. Other names and brands may be claimed as property of their respective owners.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for SRAM category:

Click to view products by Cypress manufacturer:

Other Similar products are found below :

CY6116A-35DMB CY7C1049GN-10VXI CY7C128A-45DMB GS8161Z36DD-200I GS88237CB-200I RMLV0408EGSB-4S2#AA0 IDT70V5388S166BG IS64WV3216BLL-15CTLA3 IS66WVE4M16ECLL-70BLI PCF8570P K6F2008V2E-LF70000 K6T4008C1B-GB70 CY7C1353S-100AXC AS6C8016-55BIN AS7C164A-15PCN 515712X IDT71V67603S133BG IS62WV51216EBLL-45BLI IS63WV1288DBLL-10HLI IS66WVE2M16ECLL-70BLI 70V639S10BCG IS66WVE4M16EALL-70BLI IS62WV6416DBLL-45BLI IS61WV102416DBLL-10TLI CY7C1381KV33-100AXC CY7C1381KVE33-133AXI 8602501XA 5962-3829425MUA 5962-3829430MUA 5962-8855206YA 5962-8866201YA 5962-8866204TA 5962-8866206MA 5962-8866208UA 5962-8872502XA 5962-9062007MXA 5962-9161705MXA 70V3579S6BFI GS882Z18CD-150I M38510/28902BVA 8413202RA 5962-9161708MYA 5962-8971203XA 5962-8971202ZA 5962-8872501LA 5962-8866208YA 5962-8866205YA 5962-8866205UA 5962-8866203YA 5962-8855202YA