74ABT646A

Octal bus transceiver/register; 3-state

Rev. 03 — 15 March 2010

Product data sheet

1. General description

The 74ABT646A high-performance BiCMOS device combines low static and dynamic power dissipation with high speed and high output drive.

The 74ABT646A transceiver/register consists of bus transceiver circuits with 3-state outputs, D-type flip-flops, and control circuitry arranged for multiplexed transmission of data directly from the input bus or the internal registers. Data on the A bus or B bus will be clocked into the registers as the appropriate clock pin (CPAB or CPBA) goes HIGH. Output Enable (OE) and Direction (DIR) pins are provided to control the transceiver function. In the transceiver mode, data present at the high-impedance port may be stored in either the A or B register or both.

The Select (SAB, SBA) pins determine whether data is stored or transferred through the device in real-time. The DIR pin determines which bus receives data when \overline{OE} is active (LOW). In isolation mode (\overline{OE} = HIGH), data from bus A may be stored in the B register and/or data from bus B may be stored in the A register. When an output function is disabled, the input function is still enabled and may be used to store and transmit data. Only one of the two buses, A or B, may be driven at a time. The examples in Figure 5 "Real time bus transfer and storage" on page 6 demonstrate the four fundamental bus management functions that can be performed with the 74ABT646A.

2. Features and benefits

- Combines 74ABT245 and 74ABT373A type functions in one device
- Independent registers for A and B buses
- Multiplexed real-time and stored data
- Live insertion and extraction permitted
- Output capability: +64 mA to -32 mA
- Power-up 3-state
- Power-up reset
- Latch-up protection exceeds 500 mA per JESD78B class II level A
- ESD protection:
 - HBM JESD22-A114F exceeds 2000 V
 - ◆ MM JESD22-A115-A exceeds 200 V



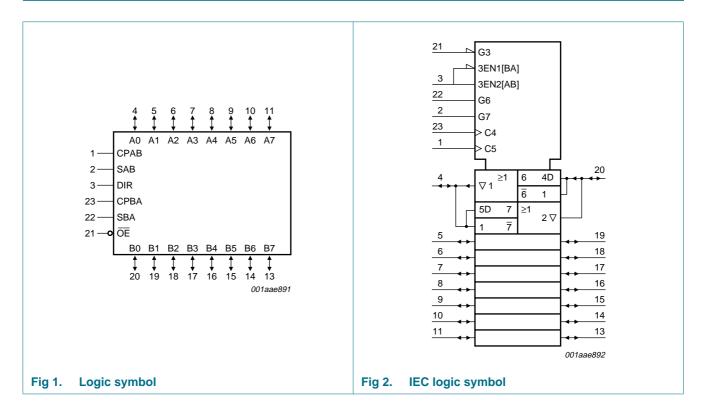
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3. Ordering information

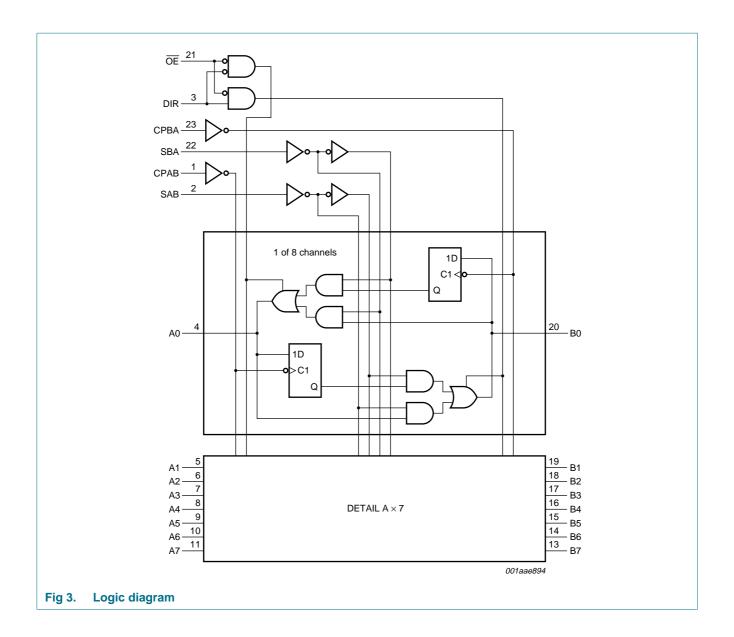
Table 1. Ordering information

Type number	Package	Package										
	Temperature range	Name	Description	Version								
74ABT646AD	–40 °C to +85 °C	SO24	plastic small outline package; 24 leads; body width 7.5 mm	SOT137-1								
74ABT646ADB	–40 °C to +85 °C	SSOP24	plastic shrink small outline package; 24 leads; body width 5.3 mm	SOT340-1								
74ABT646APW	–40 °C to +85 °C	TSSOP24	plastic thin shrink small outline package; 24 leads; body width 4.4 mm	SOT355-1								

4. Functional diagram



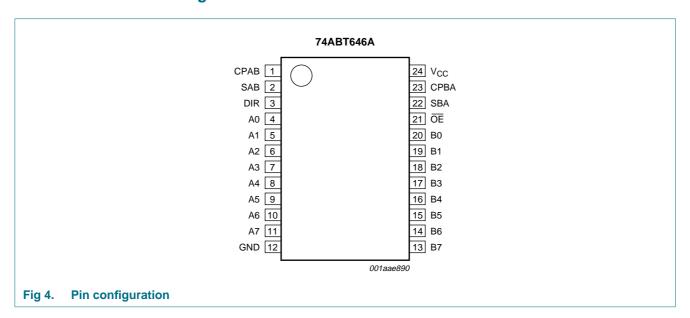
Octal bus transceiver/register; 3-state



Octal bus transceiver/register; 3-state

5. Pinning information

5.1 Pinning



5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
CPAB	1	A to B clock input
SAB	2	A to B select input
DIR	3	direction control input
A0, A1, A2, A3, A4, A5, A6, A7	4, 5, 6, 7, 8, 9, 10, 11	data input/output (A side)
GND	12	ground (0 V)
B0, B1, B2, B3, B4, B5, B6, B7	20, 19, 18, 17, 16, 15, 14, 13	data input/output (B side)
ŌĒ	21	output enable input (active LOW)
SBA	22	B to A select input
СРВА	23	B to A clock input
V _{CC}	24	positive supply voltage

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6. Functional description

Table 3. Function table [1]

Inputs						Data I/O		Operating mode	
OE	DIR	СРАВ	СРВА	SAB	SBA	An	Bn		
X	X	\uparrow	X	X	X	input	unspecified output[2]	store A, B unspecified	
X	X	X	1	X	X	unspecified output[2]	input	store B, A unspecified	
Н	Χ	1	1	Χ	Χ	input	input	store A and B data	
Н	Χ	H or L	H or L	Χ	Χ	input	input	isolation, hold storage	
L	L	Χ	Χ	Χ	L	output	input	real time B data to A bus	
L	L	Χ	H or L	Χ	Н	output	input	stored B data to A bus	
L	Н	Χ	Χ	L	Χ	input	output	real time A data to B bus	
L	Н	H or L	Χ	Н	Χ	input	output	stored A data to B bus	

^[1] H = HIGH voltage level;

L = LOW voltage level;

X = don't care;

^{↑ =} LOW-to-HIGH clock transition;

^[2] The data output function may be enabled or disabled by various signals at the $\overline{\text{OE}}$ input. Data input functions are always enabled, i.e. data at the bus pins will be stored on every LOW-to-HIGH transition of the clock.

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REAL TIME BUS TRANSFER REAL TIME BUS TRANSFER STORAGE FROM TRANSFER STORED DATA BUS B TO BUS A BUS A TO BUS B A, B, OR A AND B TO A OR B Α В Α Α $\overline{\mathsf{OE}}$ DIR CPAB CPBA SAB SBA OE ŌĒ DIR CPAB CPBA SAB $\overline{\mathsf{OE}}$ DIR CPAB CPBA SAB DIR CPAB CPBA SAB SBA SBA SBA X H/L Χ Χ L Χ Χ Χ H L X X X X X X X L L L H H/L X H Н Χ Χ 001aae893

Real time bus transfer and storage

15 March 2010

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Octal bus transceiver/register; 3-state

7. Limiting values

Table 4. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134).

Symbol	Parameter	Conditions	Min	Max	Unit
V_{CC}	supply voltage		-0.5	+7.0	V
V_{I}	input voltage		<u>[1]</u> –1.2	+7.0	V
Vo	output voltage	output in OFF-state or HIGH-state	<u>[1]</u> –0.5	+5.5	V
I _{IK}	input clamping current	V _I < 0 V	-18	-	mA
I _{OK}	output clamping current	V _O < 0 V	-50	-	mA
lo	output current	output in LOW-state	-	128	mA
Tj	junction temperature		[2] _	150	°C
T _{stg}	storage temperature		-65	+150	°C

^[1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V_{CC}	supply voltage		4.5	-	5.5	V
V_{I}	input voltage		0	-	V_{CC}	V
V_{IH}	HIGH-level input voltage		2.0	-	-	V
V_{IL}	LOW-level input voltage		-	-	0.8	V
I _{OH}	HIGH-level output current		-32	-	-	mA
I _{OL}	LOW-level output current		-	-	64	mA
Δt/ΔV	input transition rise and fall rate		0	-	10	ns/V
T _{amb}	ambient temperature	in free air	-40	-	+85	°C

^[2] The performance capability of a high-performance integrated circuit in conjunction with its thermal environment can create junction temperatures which are detrimental to reliability. The maximum junction temperature of this integrated circuit should not exceed 150 °C.

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9. Static characteristics

Table 6. Static characteristics

Symbol	Parameter	Conditions			25 °C		-40 °C 1	Uni	
				Min	Тур	Max	Min	Max	
V _{IK}	input clamping voltage	$V_{CC} = 4.5 \text{ V}; I_{IK} = -18 \text{ mA}$		-1.2	-0.9	-	-1.2	-	V
V _{OH}	HIGH-level output	$V_I = V_{IL}$ or V_{IH}							
	voltage	$V_{CC} = 4.5 \text{ V}; I_{OH} = -3 \text{ mA}$		2.5	3.0	-	2.5	-	V
		$V_{CC} = 5.0 \text{ V}; I_{OH} = -3 \text{ mA}$		3.0	3.5	-	3.0	-	V
		$V_{CC} = 4.5 \text{ V}; I_{OH} = -32 \text{ mA}$		2.0	2.4	-	2.0	-	V
V _{OL}	LOW-level output voltage	V_{CC} = 4.5 V; I_{OL} = 64 mA; V_I = V_{IL} or V_{IH}		-	0.3	0.55	-	0.55	V
$V_{OL(pu)}$	power-up LOW-level output voltage	V_{CC} = 5.5 V; I_{O} = 1 mA; V_{I} = GND or V_{CC}	<u>[1]</u>	-	0.13	0.55	-	0.55	V
l _l	input leakage current	$V_{CC} = 5.5 \text{ V}; V_{I} = \text{GND or } 5.5 \text{ V}$							
		control pins		-	±0.0 1	±1.0	-	±1.0	μΑ
		data pins		-	±5	±100	-	±100	μΑ
l _{OFF}	power-off leakage current	V_{CC} = 0 V; V_I or $V_O \le 4.5$ V		-	±5.0	±100	-	±100	μΑ
I _{O(pu/pd)}	power-up/power-down output current	V_{CC} = 2.1 V; V_{O} = 0.5 V; V_{I} = GND or V_{CC} ; \overline{OE} HIGH	[2]	-	±5.0	±50	-	±50	μΑ
l _{OZ}	OFF-state output current	V_{CC} = 5.5 V; V_I = V_{IL} or V_{IH}							
		$V_0 = 2.7 \text{ V}$		-	5.0	50	-	50	μΑ
		$V_0 = 0.5 \text{ V}$		-	-5.0	-50	-	-50	μΑ
I _{LO}	output leakage current	V_{CC} = 5.5 V; HIGH-state; V_{O} = 5.5 V; V_{CC} = 5.5 V; V_{I} = GND or V_{CC}		-	5.0	50	-	50	μΑ
lo	output current	$V_{CC} = 5.5 \text{ V}; V_{O} = 2.5 \text{ V}$	[3][5]	-180	-65	-40	-180	-40	mΑ
Icc	supply current	V_{CC} = 5.5 V; V_I = GND or V_{CC}							
		outputs HIGH-state		-	110	250	-	250	μΑ
		outputs LOW-state		-	20	30	-	30	mΑ
		outputs disabled		-	110	250	-	250	μΑ
Δl _{CC}	additional supply current	per input pin; V_{CC} = 5.5 V; one input at 3.4 V; other inputs at V_{CC} or GND	<u>[4]</u>	-	0.6	1.5	-	1.5	mΑ
Cı	input capacitance	control pins; $V_I = 0 \text{ V or } V_{CC}$		-	4	-	-	-	pF
C _{I/O}	input/output capacitance	I/O pins; outputs disabled; $V_O = 0 \text{ V}$ or V_{CC}		-	7	-	-	-	pF

^[1] For valid test results, data must not be loaded into the flip-flops (or latches) after applying the power.

^[2] This parameter is valid for any V_{CC} between 0 V and 2.1 V with a transition time of up to 10 ms. For V_{CC} = 2.1 V to V_{CC} = 5 V \pm 10 %, a transition time of up to 100 μ s is permitted.

^[3] Not more than one output should be tested at a time, and the duration of the test should not exceed one second.

^[4] This is the increase in supply current for each input at 3.4 V.

^[5] This data sheet limit may vary among suppliers.

Octal bus transceiver/register; 3-state

10. Dynamic characteristics

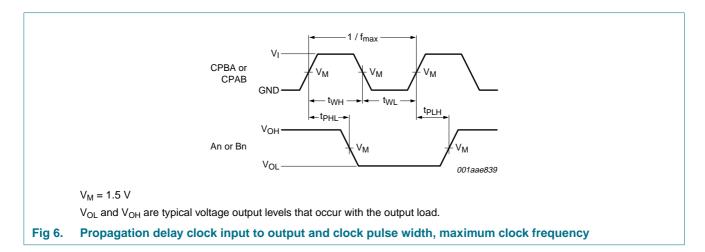
Table 7. Dynamic characteristics *GND = 0 V; for test circuit, see Figure 11.*

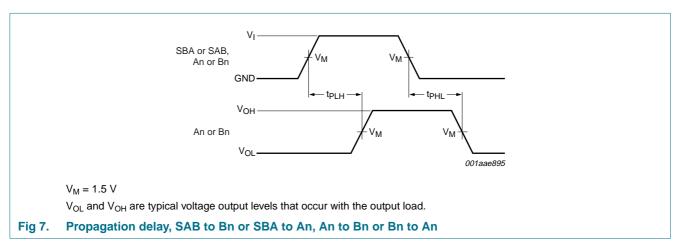
Symbol	Parameter	Conditions	25 °C	; V _{CC} =	5.0 V	-40 °C to V _{CC} = 5.0	Unit	
			Min	Тур	Max	Min	Max	
f_{max}	maximum frequency	see Figure 6	125	350	-	125	-	MHz
t _{PLH}	LOW to HIGH propagation delay	CPAB to Bn or CPBA to An; see Figure 6	2.2	3.9	5.1	2.2	5.6	ns
		An to Bn or Bn to An; see Figure 7	1.5	3.2	4.3	1.5	4.8	ns
		SAB to Bn or SBA to An; see Figure 7	1.5	3.8	5.1	1.5	6.5	ns
t _{PHL}	HIGH to LOW propagation delay	CPAB to Bn or CPBA to An; see Figure 6	1.7	4.4	5.2 ^[1]	1.7	5.6	ns
		An to Bn or Bn to An; see Figure 7	1.5	3.7	4.6	1.5	5.4	ns
		SAB to Bn or SBA to An; see Figure 7	1.5	4.4	5.3 <mark>[1]</mark>	1.5	5.9	ns
t _{PZH}	OFF-state to HIGH	OE to An or Bn; see Figure 8	1.5	3.5	5.3	1.5	6.3	ns
	propagation delay	DIR to An or Bn; see Figure 8	1.5	3.9	5.7	1.2	6.7	ns
t_{PZL}	OFF-state to LOW	OE to An or Bn; see Figure 9	3.0	4.5	7.4	3.0	8.8	ns
	propagation delay	DIR to An or Bn; see Figure 9	2.5	4.7	9.0	2.5	9.5	ns
t_{PHZ}	HIGH to OFF-state	OE to An or Bn; see Figure 8	1.5	4.0	4.8 <mark>[1]</mark>	1.5	5.3 <mark>[1]</mark>	ns
	propagation delay	DIR to An or Bn; see Figure 8	1.5	4.0	5.0	1.5	5.7	ns
t_{PLZ}	LOW to OFF-state	OE to An or Bn; see Figure 9	1.5	3.3	4.0	1.5	4.5	ns
	propagation delay	DIR to An or Bn; see Figure 9	1.5	3.5	4.7	1.5	6.0	ns
$t_{su(H)}$	set-up time HIGH	An to CPAB, Bn to CPBA; see Figure 10	3.0	0.7	-	3.0	-	ns
$t_{su(L)}$	set-up time LOW	An to CPAB, Bn to CPBA; see Figure 10	3.0	0.7	-	3.0	-	ns
$t_{h(H)}$	hold time HIGH	An to CPAB, Bn to CPBA; see Figure 10	+0.0	-0.5	-	0.0	-	ns
t _{h(L)}	hold time LOW	An to CPAB, Bn to CPBA; see Figure 10	+0.0	-0.5	-	0.0	-	ns
t_{WH}	pulse width HIGH	CPAB, CPBA; see Figure 6	4.0	0.9	-	4.0	-	ns
t _{WL}	pulse width LOW	LE; see Figure 6	4.0	1.4	-	4.0	-	ns

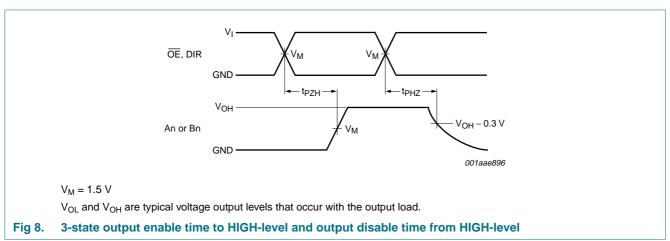
^[1] This data sheet limit may vary among suppliers.

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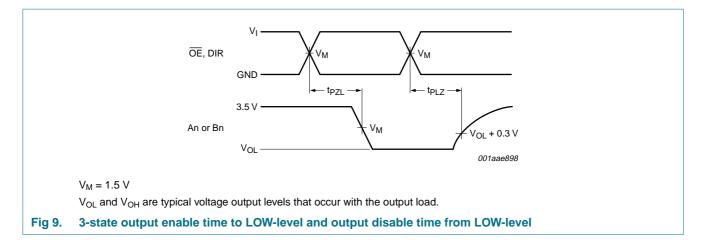
11. Waveforms

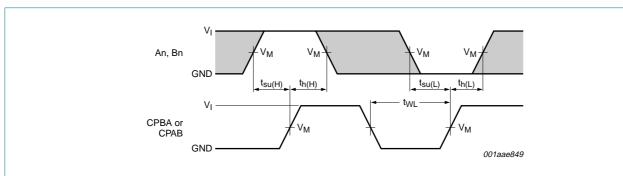






Octal bus transceiver/register; 3-state





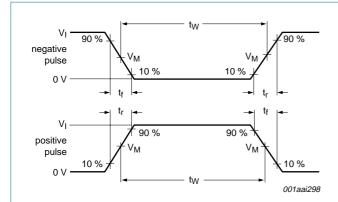
 $V_{M} = 1.5 V$

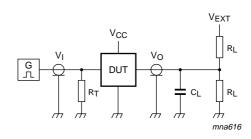
 V_{OL} and V_{OH} are typical voltage output levels that occur with the output load.

The shaded areas indicate when the input is permitted to change for predictable output performance.

Fig 10. Data set-up and hold times

Octal bus transceiver/register; 3-state





a. Input pulse definition

b. Test circuit

Test data is given in Table 8.

 R_L = Load resistance.

 C_L = Load capacitance including jig and probe capacitance.

 R_T = Termination resistance should be equal to output impedance Z_0 of the pulse generator.

 V_{EXT} = Test voltage for switching times.

Fig 11. Load circuitry for switching times

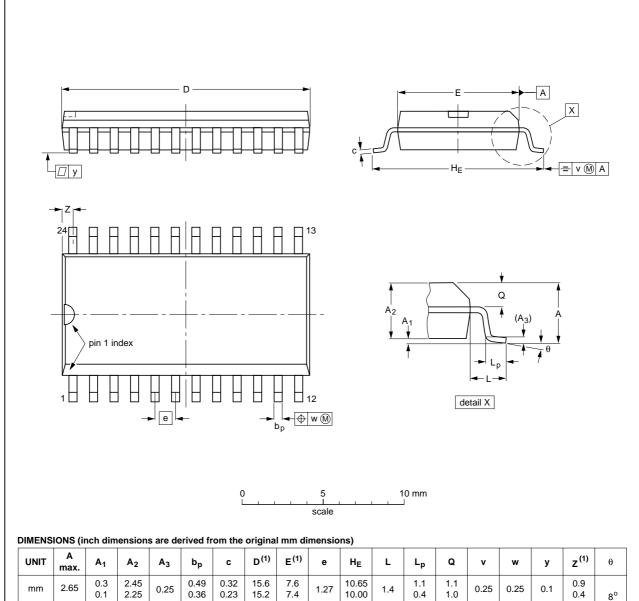
Table 8. Test data

Input				Load		V _{EXT}			
V_{l}	f _l	t _W	t _r , t _f	CL	R _L	t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}	
3.0 V	1 MHz	500 ns	≤ 2.5 ns	50 pF	500Ω	open	open	7.0 V	

12. Package outline

SO24: plastic small outline package; 24 leads; body width 7.5 mm

SOT137-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽¹⁾	е	HE	L	Lp	Q	٧	w	у	z ⁽¹⁾	θ
mm	2.65	0.3 0.1	2.45 2.25	0.25	0.49 0.36	0.32 0.23	15.6 15.2	7.6 7.4	1.27	10.65 10.00	1.4	1.1 0.4	1.1 1.0	0.25	0.25	0.1	0.9 0.4	8°
inches	0.1	0.012 0.004	0.096 0.089	0.01	0.019 0.014	0.013 0.009	0.61 0.60	0.30 0.29	0.05	0.419 0.394	0.055	0.043 0.016	0.043 0.039	0.01	0.01	0.004	0.035 0.016	0°

1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

OUTLINE		REFER	ENCES	EUROPEAN	ISSUE DATE
VERSION	IEC	JEDEC	JEITA	PROJECTION	1330E DATE
SOT137-1	075E05	MS-013			-99-12-27 03-02-19

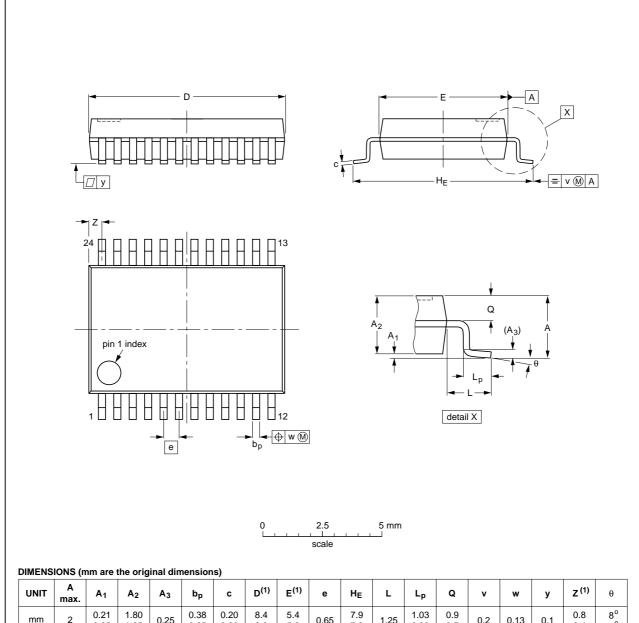
Fig 12. Package outline SOT137-1 (SO24)

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SSOP24: plastic shrink small outline package; 24 leads; body width 5.3 mm

SOT340-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	C	D ⁽¹⁾	E ⁽¹⁾	е	HE	L	Lp	Q	v	w	у	Z ⁽¹⁾	θ
mm	2	0.21 0.05	1.80 1.65	0.25	0.38 0.25	0.20 0.09	8.4 8.0	5.4 5.2	0.65	7.9 7.6	1.25	1.03 0.63	0.9 0.7	0.2	0.13	0.1	0.8 0.4	8° 0°

Note

1. Plastic or metal protrusions of 0.2 mm maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE	
VERSION	IEC	JEDEC	JEITA	PROJECTION	ISSUE DATE
SOT340-1		MO-150			99-12-27 03-02-19

Fig 13. Package outline SOT340-1 (SSOP24)

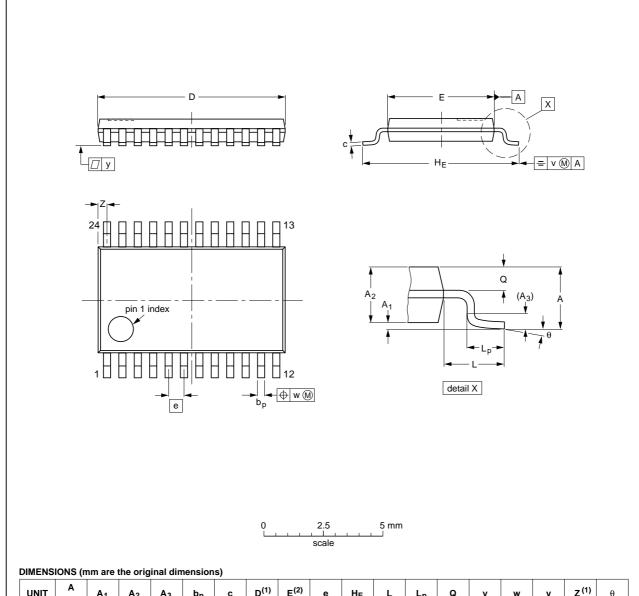
74ABT646A_3

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TSSOP24: plastic thin shrink small outline package; 24 leads; body width 4.4 mm

SOT355-1



_							٠-,												
	UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽²⁾	е	HE	L	Lp	Q	v	w	у	z ⁽¹⁾	θ
	mm	1.1	0.15 0.05	0.95 0.80	0.25	0.30 0.19	0.2 0.1	7.9 7.7	4.5 4.3	0.65	6.6 6.2	1	0.75 0.50	0.4 0.3	0.2	0.13	0.1	0.5 0.2	8° 0°

Notes

- 1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
- 2. Plastic interlead protrusions of 0.25 mm maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT355-1		MO-153				-99-12-27 03-02-19	
SOT355-1		MO-153				Θ	

Fig 14. Package outline SOT355-1 (TSSOP24)

74ABT646A_3

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Octal bus transceiver/register; 3-state

13. Abbreviations

Table 9. Abbreviations

Acronym	Description
BiCMOS	Bipolar Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
MM	Machine Model

14. Revision history

Table 10. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes					
74ABT646A_3	20100315	Product data sheet	-	74ABT646A_2					
Modifications:	 The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors. 								
	 Legal texts have 	ve been adapted to the new	company name where	appropriate.					
	 DIP 24 (SOT2) "Package outli 	22-1) package removed fron ne".	n Section 3 "Ordering in	nformation" and Section 12					
74ABT646A_2	19980217	Product specification	-	74ABT646A_1					
74ABT646A_1	19950906	Product specification	-	-					

Octal bus transceiver/register; 3-state

15. Legal information

15.1 Data sheet status

Document status[1][2]	Product status[3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

- [1] Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions"
- [3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL http://www.nxp.com.

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16. Contact information

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