

SN54ABT534, SN74ABT534A OCTAL EDGE-TRIGGERED D-TYPE FLIP-FLOPS WITH 3-STATE OUTPUTS

SCBS187F – JANUARY 1991 – REVISED JANUARY 1997

- State-of-the-Art *EPIC-IIB™* BiCMOS Design Significantly Reduces Power Dissipation
- Latch-Up Performance Exceeds 500 mA Per JEDEC Standard JESD-17
- Typical V_{OLP} (Output Ground Bounce) < 1 V at $V_{CC} = 5$ V, $T_A = 25^\circ\text{C}$
- High-Drive Outputs ($-32\text{-mA } I_{OH}$, $64\text{-mA } I_{OL}$)
- ESD Protection Exceeds 2000 V Per MIL-STD-883, Method 3015; Exceeds 200 V Using Machine Model ($C = 200$ pF, $R = 0$)
- Package Options Include Plastic Small-Outline (DW), Shrink Small-Outline (DB), and Thin Shrink Small-Outline (PW) Packages, Ceramic Chip Carriers (FK), Plastic (N) and Ceramic (J) DIPs, and Ceramic Flat (W) Package

description

These 8-bit flip-flops with 3-state outputs are designed specifically for driving highly capacitive or relatively low-impedance loads. They are particularly suitable for implementing buffer registers, I/O ports, bidirectional bus drivers, and working registers.

The eight flip-flops are edge-triggered D-type flip-flops. On the positive transition of the clock (CLK), the \bar{Q} outputs are set to the complement of the logic levels set up at the data (D) inputs.

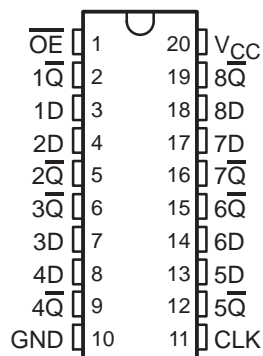
A buffered output-enable (\overline{OE}) input can be used to place the eight outputs in either a normal logic state (high or low logic levels) or a high-impedance state. In the high-impedance state, the outputs neither load nor drive the bus lines significantly. The high-impedance state and increased drive provide the capability to drive bus lines without need for interface or pullup components.

\overline{OE} does not affect the internal operations of the flip-flop. Previously stored data can be retained or new data can be entered while the outputs are in the high-impedance state.

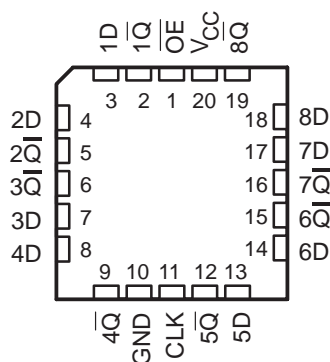
To ensure the high-impedance state during power up or power down, \overline{OE} should be tied to V_{CC} through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

The SN54ABT534 is characterized for operation over the full military temperature range of -55°C to 125°C . The SN74ABT534A is characterized for operation from -40°C to 85°C .

SN54ABT534 . . . J OR W PACKAGE
SN74ABT534A . . . DB, DW, N, OR PW PACKAGE
(TOP VIEW)



SN54ABT534 . . . FK PACKAGE
(TOP VIEW)



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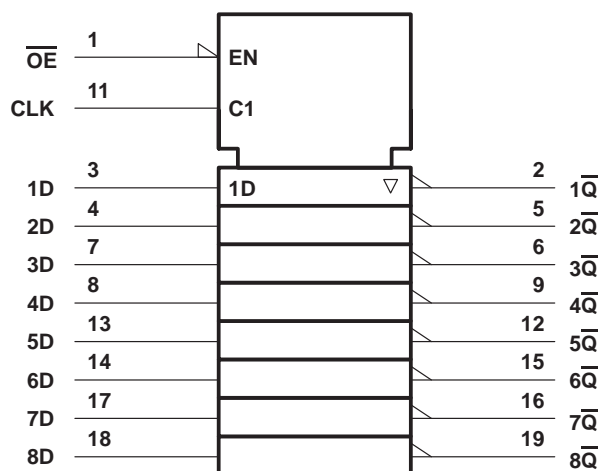
SN54ABT534, SN74ABT534A OCTAL EDGE-TRIGGERED D-TYPE FLIP-FLOPS WITH 3-STATE OUTPUTS

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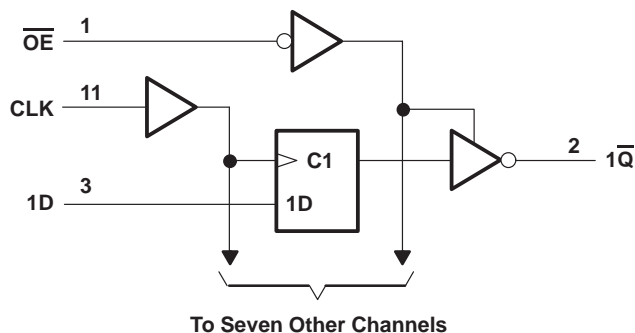
FUNCTION TABLE
(each flip-flop)

INPUTS			OUTPUT
\overline{OE}	CLK	D	\overline{Q}
L	↑	H	L
L	↑	L	H
L	H or L	X	\overline{Q}_0
H	X	X	Z

logic symbol†



logic diagram (positive logic)



† This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12.

absolute maximum ratings over operating free-air temperature range (unless otherwise noted)‡

Supply voltage range, V_{CC}	-0.5 V to 7 V
Input voltage range, V_I (see Note 1)	-0.5 V to 7 V
Voltage range applied to any output in the high or power-off state, V_O	-0.5 V to 5.5 V
Current into any output in the low state, I_O : SN54ABT534	96 mA
SN74ABT534A	128 mA
Input clamp current, I_{IK} ($V_I < 0$)	-18 mA
Output clamp current, I_{OK} ($V_O < 0$)	-50 mA
Package thermal impedance, θ_{JA} (see Note 2): DB package	115°C/W
DW package	97°C/W
N package	67°C/W
PW package	128°C/W
Storage temperature range, T_{stg}	-65°C to 150°C

‡ Stresses beyond those listed under “absolute maximum ratings” may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under “recommended operating conditions” is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

NOTES: 1. The input and output negative-voltage ratings may be exceeded if the input and output clamp-current ratings are observed.
2. The package thermal impedance is calculated in accordance with EIA/JEDEC Std JESD51, except for through-hole packages, which use a trace length of zero.

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recommended operating conditions (see Note 3)

		SN54ABT534		SN74ABT534A		UNIT
		MAX	MAX	MIN	MAX	
V _{CC}	Supply voltage	4.5	5.5	4.5	5.5	V
V _{IH}	High-level input voltage	2		2		V
V _{IL}	Low-level input voltage		0.8		0.8	V
V _I	Input voltage	0	V _{CC}	0	V _{CC}	V
I _{OH}	High-level output current		-24		-32	mA
I _{OL}	Low-level output current		48		64	mA
Δt/Δv	Input transition rise or fall rate	Outputs enabled		5	5	ns/V
T _A	Operating free-air temperature	-55	125	-40	85	°C

NOTE 3: Unused inputs must be held high or low to prevent them from floating.

electrical characteristics over recommended operating free-air temperature range (unless otherwise noted)

PARAMETER	TEST CONDITIONS	T _A = 25°C			SN54ABT534		SN74ABT534A		UNIT
		MIN	TYP†	MAX	MIN	MAX	MIN	MAX	
V _{IK}	V _{CC} = 4.5 V, I _I = -18 mA			-1.2		-1.2		-1.2	V
V _{OH}	V _{CC} = 4.5 V, I _{OH} = -3 mA	2.5			2.5		2.5		V
	V _{CC} = 5 V, I _{OH} = -3 mA	3			3		3		
	V _{CC} = 4.5 V	I _{OH} = -24 mA	2			2			
I _{OH} = -32 mA		2*					2		
V _{OL}	V _{CC} = 4.5 V	I _{OL} = 48 mA		0.55		0.55			V
		I _{OL} = 64 mA		0.55*			0.55		
V _{hys}			100						mV
I _I	V _{CC} = 5.5 V, V _I = V _{CC} or GND			±1		±1		±1	μA
I _{OZH}	V _{CC} = 5.5 V, V _O = 2.7 V			10‡		10‡		10‡	μA
I _{OZL}	V _{CC} = 5.5 V, V _O = 0.5 V			-10‡		-10‡		-10‡	μA
I _{off}	V _{CC} = 0, V _I or V _O ≤ 4.5 V			±100				±100	μA
I _{CEX}	V _{CC} = 5.5 V, V _O = 5.5 V	Outputs high		50		50		50	μA
I _{O§}	V _{CC} = 5.5 V, V _O = 2.5 V	-50	-100	-180‡	-50	-180‡	-50	-180‡	mA
I _{CC}	V _{CC} = 5.5 V, I _O = 0, V _I = V _{CC} or GND	Outputs high		1	250	250		250	μA
		Outputs low		24	30	30		30	mA
		Outputs disabled		0.5	250	250		250	μA
ΔI _{CC¶}	V _{CC} = 5.5 V, One input at 3.4 V, Other inputs at V _{CC} or GND			1.5		1.5		1.5	mA
C _i	V _I = 2.5 V or 0.5 V			3.5					pF
C _o	V _O = 2.5 V or 0.5 V			6.5					pF

* On products compliant to MIL-PRF-38535, this parameter does not apply.

† All typical values are at V_{CC} = 5 V.

‡ This data sheet limit may vary among suppliers.

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

¶ This is the increase in supply current for each input that is at the specified TTL voltage level rather than V_{CC} or GND.



SN54ABT534, SN74ABT534A

OCTAL EDGE-TRIGGERED D-TYPE FLIP-FLOPS

WITH 3-STATE OUTPUTS

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timing requirements over recommended ranges of supply voltage and operating free-air temperature (unless otherwise noted) (see Figure 1)

			SN54ABT534				UNIT	
			V _{CC} = 5 V, T _A = 25°C			MIN		MAX
			MIN	MAX				
f _{clock}	Clock frequency		125			MHz		
t _w	Pulse duration	CLK high or low	3.5	3.5		ns		
t _{su}	Setup time, data before CLK↑		1.6	1.6		ns		
t _h	Hold time, data after CLK↑		1.6	1.6		ns		

timing requirements over recommended ranges of supply voltage and operating free-air temperature (unless otherwise noted) (see Figure 1)

			SN74ABT534A				UNIT	
			V _{CC} = 5 V, T _A = 25°C			MIN		MAX
			MIN	MAX				
f _{clock}	Clock frequency		125			MHz		
t _w	Pulse duration	CLK high or low	3.5	3.5		ns		
t _{su}	Setup time, data before CLK↑		1.6	1.6		ns		
t _h	Hold time, data after CLK↑		2†	2†		ns		

† This data sheet limit may vary among suppliers.

switching characteristics over recommended ranges of supply voltage and operating free-air temperature, C_L = 50 pF (unless otherwise noted) (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	SN54ABT534					UNIT
			V _{CC} = 5 V, T _A = 25°C			MIN	MAX	
			MIN	TYP	MAX			
f _{max}			125	175		125	MHz	
t _{PLH}	CLK	\bar{Q}	2.6	4.5	6.1	2.6	7	ns
t _{PHL}			3.4	5.5	6.7	3.4	7.9	
t _{PZH}	\overline{OE}	\bar{Q}	1	3.4	5.2	1	5.8	ns
t _{PZL}			2.6	4	5.8	2.6	7	
t _{PHZ}	\overline{OE}	\bar{Q}	2.4	4.7	6.6	2.4	7.6	ns
t _{PLZ}			2.3	3.8	5.8	2.3	6.8	



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switching characteristics over recommended ranges of supply voltage and operating free-air temperature, $C_L = 50$ pF (unless otherwise noted) (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	SN74ABT534A				UNIT	
			$V_{CC} = 5$ V, $T_A = 25^\circ$ C			MIN		MAX
			MIN	TYP	MAX			
f_{max}			125	175		125	MHz	
t_{PLH}	CLK	\bar{Q}	2.6	4.5	5.9	2.6	6.7	ns
t_{PHL}			3.4	5.5	6.7	3.4	7.6	
t_{PZH}	\overline{OE}	\bar{Q}	1	3.4	4.2	1	5	ns
t_{PZL}			2.6	4	5.8	2.6	6.8	
t_{PHZ}	\overline{OE}	\bar{Q}	2.4	4.7	6.6	2.4	7.3	ns
t_{PLZ}			2.3	3.8	5.8	2.3	6.5	

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PARAMETER MEASUREMENT INFORMATION



LOAD CIRCUIT

TEST	S1
t_{PLH}/t_{PHL}	Open
t_{PLZ}/t_{PZL}	7 V
t_{PHZ}/t_{PZH}	Open



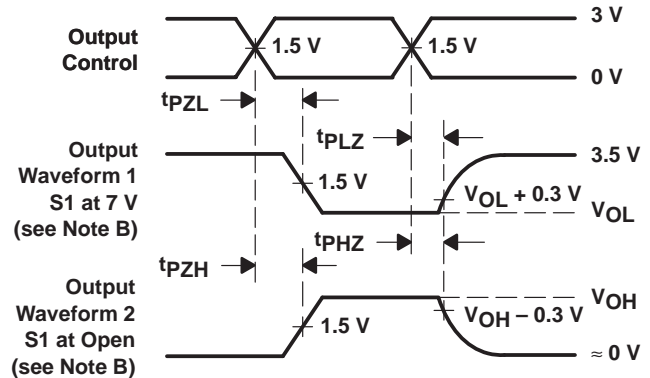
VOLTAGE WAVEFORMS
PULSE DURATION



VOLTAGE WAVEFORMS
SETUP AND HOLD TIMES



VOLTAGE WAVEFORMS
PROPAGATION DELAY TIMES
INVERTING AND NONINVERTING OUTPUTS



VOLTAGE WAVEFORMS
ENABLE AND DISABLE TIMES
LOW- AND HIGH-LEVEL ENABLING

- NOTES: A. C_L includes probe and jig capacitance.
B. Waveform 1 is for an output with internal conditions such that the output is low except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high except when disabled by the output control.
C. All input pulses are supplied by generators having the following characteristics: $PRR \leq 10 \text{ MHz}$, $Z_O = 50 \Omega$, $t_r \leq 2.5 \text{ ns}$, $t_f \leq 2.5 \text{ ns}$.
D. The outputs are measured one at a time with one transition per measurement.

Figure 1. Load Circuit and Voltage Waveforms

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[APPLICATION NOTES](#) | [USER GUIDES](#) | [MORE LITERATURE](#)

PRODUCT SUPPORT: [TRAINING](#)

SN74ABT534A, Octal Edge-Triggered D-Type Flip-Flops With 3-State Outputs

DEVICE STATUS: ACTIVE

PARAMETER NAME	SN74ABT534A
Voltage Nodes (V)	5
V _{CC} range (V)	4.5 to 5.5
Input Level	TTL
Output Level	TTL
Output Drive (mA)	-32/64
No. of Outputs	8
Static Current	15.12
t _h (ns)	2.0
t _{pd} max (ns)	7.9
t _{su} (ns)	1.6
Logic	Inv

FEATURES

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DESCRIPTION

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\overline{OE} does not affect the internal operations of the flip-flop. Previously stored data can be retained or new data can be entered while the outputs are in the high-impedance state.

To ensure the high-impedance state during power up or power down, \overline{OE} should be tied to V_{CC} through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of

the driver.

The SN54ABT534 is characterized for operation over the full military temperature range of -55°C to 125°C. The SN74ABT534A is characterized for operation from -40°C to 85°C.

TECHNICAL DOCUMENTS

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DATASHEET

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Full datasheet in Acrobat PDF: [sn74abt534a.pdf](#) (108 KB,Rev.F) (Updated: 01/01/1997)

APPLICATION NOTES

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View Application Notes for [Digital Logic](#)

- [Advanced BiCMOS Technology \(ABT\) Logic Characterization Information \(Rev. B\)](#) (SCBA008B - Updated: 06/01/1997)
- [Advanced BiCMOS Technology \(ABT\) Logic Enables Optimal System Design \(Rev. A\)](#) (SCBA001A - Updated: 03/01/1997)
- [Bus-Interface Devices With Output-Damping Resistors Or Reduced-Drive Outputs \(Rev. A\)](#) (SCBA012A - Updated: 08/01/1997)
- [Designing With Logic \(Rev. C\)](#) (SDYA009C - Updated: 06/01/1997)
- [Evaluation of Nickel/Palladium/Gold-Finished Surface-Mount Integrated Circuits](#) (SZZA026 - Updated: 06/20/2001)
- [Family of Curves Demonstrating Output Skews for Advanced BiCMOS Devices \(Rev. A\)](#) (SCBA006A - Updated: 12/01/1996)
- [Implications of Slow or Floating CMOS Inputs \(Rev. C\)](#) (SCBA004C - Updated: 02/01/1998)
- [Input and Output Characteristics of Digital Integrated Circuits](#) (SDYA010 - Updated: 10/01/1996)
- [Live Insertion](#) (SDYA012 - Updated: 10/01/1996)
- [Power-Up 3-State \(PU3S\) Circuits in TI Standard Logic Devices](#) (SZZA033 - Updated: 05/10/2002)
- [Quad Flatpack No-Lead Logic Packages \(Rev. C\)](#) (SCBA017C - Updated: 11/22/2002)
- [TI IBIS File Creation, Validation, and Distribution Processes](#) (SZZA034 - Updated: 08/29/2002)
- [Understanding Advanced Bus-Interface Products Design Guide](#) (SCAA029, 253 KB - Updated: 05/01/1996)
- [Understanding and Interpreting Texas Instruments Standard-Logic Products Data Sh \(Rev. A\)](#) (SZZA036A - Updated: 02/27/2003)

MORE LITERATURE

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- [Enhanced Plastic Portfolio Brochure](#) (SGZB004, 387 KB - Updated: 08/19/2002)
- [Logic Reference Guide](#) (SCYB004, 1032 KB - Updated: 10/23/2001)
- [MicroStar Junior BGA Design Summary](#) (SCET004, 167 KB - Updated: 07/28/2000)
- [Military Brief](#) (SGYN138, 803 KB - Updated: 10/10/2000)
- [Overview of IEEE Std 91-1984, Explanation of Logic Symbols Training Booklet \(Rev. A\)](#) (SDYZ001A, 138 KB - Updated: 07/01/1996)
- [Palladium Lead Finish User's Manual](#) (SDYV001, 2041 KB - Updated: 11/01/1996)
- [QML Class V Space Products Military Brief \(Rev. A\)](#) (SGZN001A, 257 KB - Updated: 10/07/2002)

USER GUIDES

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- [LOGIC Pocket Data Book](#) (SCYD013, 4837 KB - Updated: 12/05/2002)

SAMPLES

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ORDERABLE DEVICE	PACKAGE INDUSTRY (TI)	PINS	TEMP (°C)	STATUS	PRODUCT CONTENT	SAMPLES
SN74ABT534ADBR	SSOP (DB)	20	-40 TO 85	ACTIVE	View Product Content	Request Samples
SN74ABT534ADW	SOIC (DW)	20	-40 TO 85	ACTIVE	View Product Content	Request Samples

SN74ABT534ADWR	SOIC (DW)	20	-40 TO 85	ACTIVE	View Product Content	Request Samples
SN74ABT534APWR	TSSOP (PW)	20	-40 TO 85	ACTIVE	View Product Content	Request Samples

PRICING/AVAILABILITY/PKG

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DEVICE INFORMATION Updated Daily							TI INVENTORY STATUS As Of 09:00 AM GMT, 17 Apr 2003			REPORTED DISTRIBUTOR INVENTORY As Of 09:00 AM GMT, 17 Apr 2003		
ORDERABLE DEVICE	STATUS	PACKAGE TYPE PINS	TEMP (°C)	PRODUCT CONTENT	BUDGETARY PRICING QTY SUS	STD PACK QTY	IN STOCK	IN PROGRESS QTY DATE	LEAD TIME	DISTRIBUTOR COMPANY REGION	IN STOCK	PURCHASE
SN74ABT534ADBLE	OBSOLETE	SSOP (DB) 20	-40 TO 85	View Contents	1KU		0*		Call**	None Reported View Distributors		
SN74ABT534ADBR	ACTIVE	SSOP (DB) 20	-40 TO 85	View Contents	1KU 0.77	2000	0*	997 21 Apr	4 WKS	DigiKey Americas	> 1k	BUY NOW
								> 10k 08 May				
SN74ABT534ADW	ACTIVE	SOIC (DW) 20	-40 TO 85	View Contents	1KU 0.77	25	550*	1314 21 Apr	4 WKS	DigiKey Americas	> 1k	BUY NOW
								> 10k 12 May		Avnet Americas	> 1k	BUY NOW
										Avnet-SILICA Europe	800	BUY NOW
										EBV Electronik Europe	125	BUY NOW
SN74ABT534ADWR	ACTIVE	SOIC (DW) 20	-40 TO 85	View Contents	1KU 0.77	2000	0*	1633 21 Apr	4 WKS	DigiKey Americas	920	BUY NOW
								> 10k 08 May				
SN74ABT534AN	ACTIVE	PDIP (N) 20	-40 TO 85	View Contents	1KU 0.77	20	5120*		4 WKS	Arrow Americas	668	BUY NOW
SN74ABT534ANSR	ACTIVE	SOP (NS) 20		View Contents	1KU 2.20	2000	0*	> 10k 05 May	4 WKS	None Reported View Distributors		
SN74ABT534APW	ACTIVE	TSSOP (PW) 20	-40 TO 85	View Contents	1KU 1.40	70	0*	> 10k 08 May	4 WKS	None Reported View Distributors		
SN74ABT534APWLE	OBSOLETE	TSSOP (PW) 20	-40 TO 85	View Contents	1KU		0*		Call**	None Reported View Distributors		
SN74ABT534APWR	ACTIVE	TSSOP (PW) 20	-40 TO 85	View Contents	1KU 0.77	2000	0*	590 28 Apr	4 WKS	DigiKey Americas	> 1k	BUY NOW
								> 10k 08 May				

Table Data Updated on: 4/17/2003

