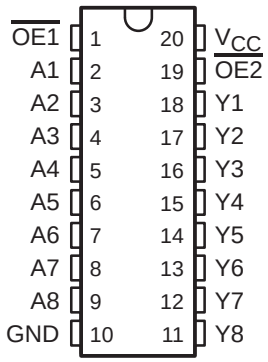
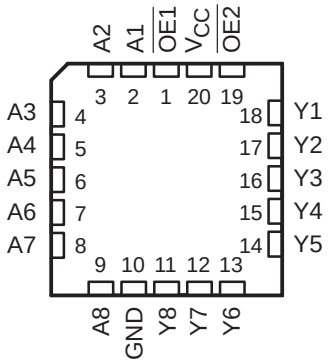
- **State-of-the-Art *EPIC*-II*B*™ BiCMOS Design Significantly Reduces Power Dissipation**
- **Latch-Up Performance Exceeds 500 mA Per JEDEC Standard JESD-17**
- **Typical V_{OLP} (Output Ground Bounce) < 1 V at V_{CC} = 5 V, T_A = 25°C**
- **High-Impedance State During Power Up and Power Down**
- **High-Drive Outputs (–32-mA I_{OH}, 64-mA I_{OL})**
- **Package Options Include Plastic Small-Outline (DW), Shrink Small-Outline (DB), and Thin Shrink Small-Outline (PW) Packages, Ceramic Chip Carriers (FK), Ceramic Flat (W) Package, and Plastic (N) and Ceramic (J) DIPs**

SN54ABT541 . . . J OR W PACKAGE
SN74ABT541B . . . DB, DW, N, OR PW PACKAGE
(TOP VIEW)



SN54ABT541 . . . FK PACKAGE
(TOP VIEW)



description

The SN54ABT541 and SN74ABT541B octal buffers and line drivers are ideal for driving bus lines or buffering memory address registers. The devices feature inputs and outputs on opposite sides of the package to facilitate printed circuit board layout.

The 3-state control gate is a two-input AND gate with active-low inputs so that if either output-enable ($\overline{OE1}$ or $\overline{OE2}$) input is high, all eight outputs are in the high-impedance state.

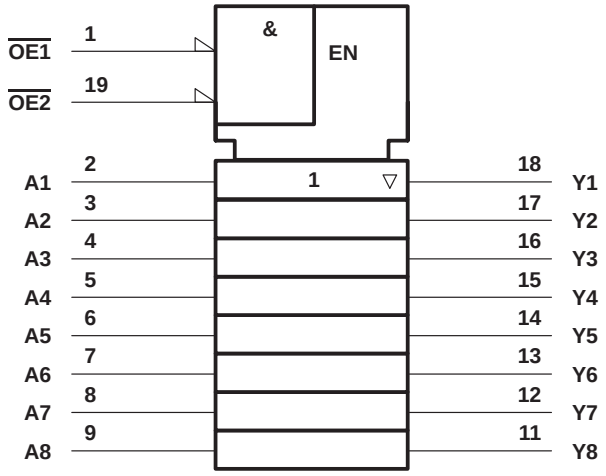
When V_{CC} is between 0 and 2.1 V, the device is in the high-impedance state during power up or power down. However, to ensure the high-impedance state above 2.1 V, $\overline{OE}$ should be tied to V_{CC} through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

The SN54ABT541 is characterized for operation over the full military temperature range of –55°C to 125°C. The SN74ABT541B is characterized for operation from –40°C to 85°C.

FUNCTION TABLE

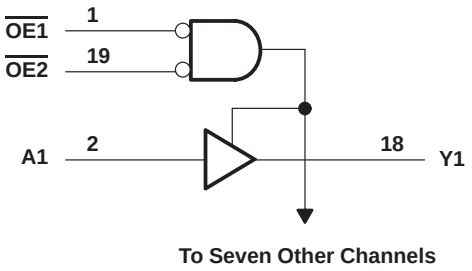
INPUTS			OUTPUT
$\overline{OE1}$	$\overline{OE2}$	A	Y
L	L	L	L
L	L	H	H
H	X	X	Z
X	H	X	Z

logic symbol†



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

logic diagram (positive logic)



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: SN54ABT541 . . . . . 96 mA
SN74ABT541B . . . . . 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 JESD 51, except for through-hole packages, which use a trace length of zero.

recommended operating conditions (see Note 3)

		SN54ABT541		SN74ABT541B		UNIT
		MIN	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
I_{OH}	High-level output current		–24		–32	mA
I_{OL}	Low-level output current		48		64	mA
T_A	Operating free-air temperature	–55	125	–40	85	°C

NOTE 3: All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation. Refer to the TI application report, *Implications of Slow or Floating CMOS Inputs*, literature number SCBA004.

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

PARAMETER	TEST CONDITIONS		T_A = 25°C			SN54ABT541		SN74ABT541B		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_{OZPU}	V_{CC} = 0 to 2.1 V, V_O = 0.5 V to 2.7 V, $\overline{OE}$ = X				±50**		±50**		±50	µA
I_{OZPD}	V_{CC} = 2.1 V to 0, V_O = 0.5 V to 2.7 V, $\overline{OE}$ = X				±50**		±50**		±50	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	–140	–180	–50	–180	–50	–180	mA
I_{CC}	V_{CC} = 5.5 V, I_O = 0, V_I = V_{CC} or GND	Outputs high		5	250		250		250	µA
		Outputs low		22	30		30		30	mA
		Outputs disabled		1	250		250		250	µA
ΔI_{CC}§	V_{CC} = 5.5 V, One input at 3.4 V, Other inputs at V_{CC} or GND	Outputs enabled			1.5		1.5		1.5	mA
		Outputs disabled			50		50		50	µA
		Control inputs			1.5		1.5		1.5	mA
C_i	V_I = 2.5 V or 0.5 V			3						pF
C_o	V_O = 2.5 V or 0.5 V			6						pF

* On products compliant to MIL-PRF-38535, this parameter does not apply.
** On products compliant to MIL-PRF-38535, this parameter is not production tested.
† All typical values are at V_{CC} = 5 V.
‡ 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.

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

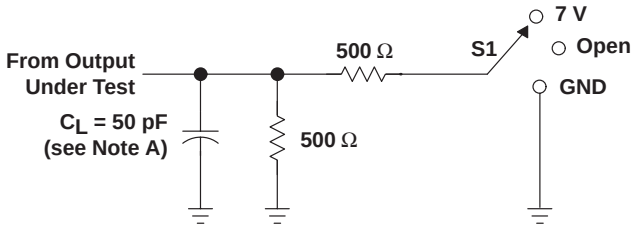
PARAMETER	FROM (INPUT)	TO (OUTPUT)	SN54ABT541					UNIT
			V_{CC} = 5 V, T_A = 25°C			MIN	MAX	
			MIN	TYP	MAX			
t_{PLH}	A	Y	1	2.6	4.1	1	4.6	ns
t_{PHL}			1	2.9	4.2	1	4.7	
t_{PZH}	$\overline{OE}$	Y	1.1	3.1	4.8	1.1	5.4	ns
t_{PZL}			2.1	4.4	5.9	2.1	7	
t_{PHZ}	$\overline{OE}$	Y	2.1	5.1	6.6	2.1	7.5	ns
t_{PLZ}			1.7	4.7	6.2	1.7	6.7	

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)	SN74ABT541B					UNIT
			V_{CC} = 5 V, T_A = 25°C			MIN	MAX	
			MIN	TYP	MAX			
t_{PLH}	A	Y	1	2	3.2	1	3.6	ns
t_{PHL}			1	2.6	3.5	1	3.9	
t_{PZH}	$\overline{OE}$	Y	2	3.5	4.5	2	4	ns
t_{PZL}			1.9	4	5.1	1.9	5.9	
t_{PHZ}	$\overline{OE}$	Y	2.2	4.4	5.4	2.2	5.8	ns
t_{PLZ}			1.5	3	4	1.5	4.4	
$t_{sk(o)}$†					0.5		0.5	ns

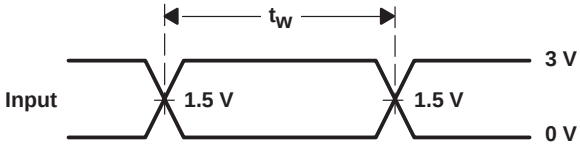
† Skew between any two outputs of the same package switching in the same direction

PARAMETER MEASUREMENT INFORMATION

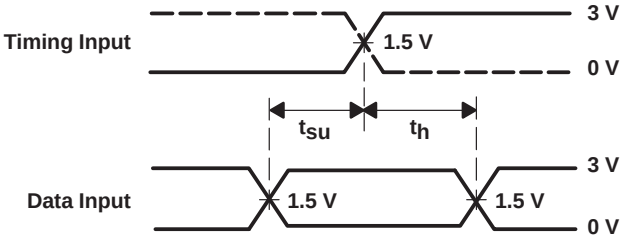


TEST	S1
t_{PLH}/t_{PHL}	Open
t_{PLZ}/t_{PZL}	7 V
t_{PHZ}/t_{PZH}	Open

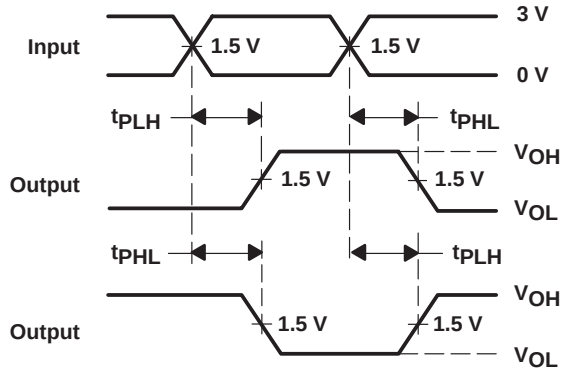
LOAD CIRCUIT



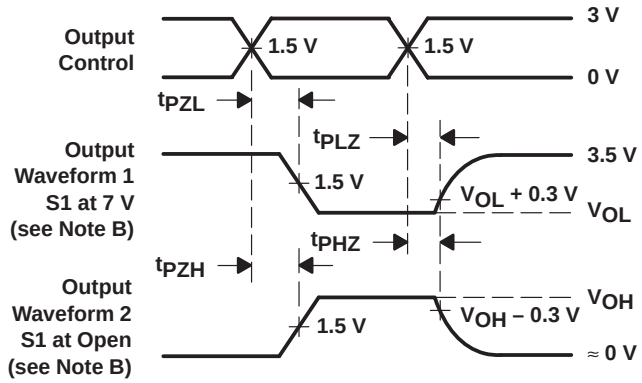
VOLTAGE WAVEFORMS
PULSE DURATION



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 ≤ 10 MHz, Z_O = 50 Ω, t_r ≤ 2.5 ns, t_f ≤ 2.5 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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SN54ABT541, Octal Buffers/Drivers With 3-State Outputs

DEVICE STATUS: **ACTIVE**

PARAMETER NAME	SN54ABT541
Voltage Nodes (V)	5

FEATURES

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- State-of-the-Art *EPIC*-II *B*™ BiCMOS Design Significantly Reduces Power Dissipation
- Latch-Up Performance Exceeds 500 mA Per JEDEC Standard JESD-17
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DESCRIPTION

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DATASHEET

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Full datasheet in Acrobat PDF: sn54abt541.pdf (94 KB,Rev.K) (Updated: 10/06/1998)

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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)

Product Folder: SN54ABT541, Octal Buffers/Drivers With 3-State Outputs

- 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)

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)	DSCC NUMBER	PRODUCT CONTENT	BUDGETARY PRICING QTY | $US	STD PACK QTY	IN STOCK	IN PROGRESS QTY | DATE	LEAD TIME	DISTRIBUTOR COMPANY | REGION	IN STOCK	PURCHASE
5962-9471801Q2A	ACTIVE	LCCC (FK) | 20	-55 TO 125		View Contents	1KU | 8.58	1	44*	3942 | 20 May	8 WKS	None Reported View Distributors		
									>10k | 27 May				
5962-9471801QRA	ACTIVE	CDIP (J) | 20	-55 TO 125		View Contents	1KU | 4.86	1	88*	>10k | 20 May	8 WKS	None Reported View Distributors		
5962-9471801QSA	ACTIVE	CFP (W) | 20	-55 TO 125		View Contents	1KU | 8.58	1	5*	>10k | 20 May	8 WKS	None Reported View Distributors		
SNJ54ABT541FK	ACTIVE	LCCC (FK) | 20	-55 TO 125	5962-9471801Q2A	View Contents	1KU | 8.58	1	0*	3889 | 20 May	8 WKS	None Reported View Distributors		
									>10k | 27 May				
SNJ54ABT541J	ACTIVE	CDIP (J) | 20	-55 TO 125	5962-9471801QRA	View Contents	1KU | 4.86	1	267*	>10k | 20 May	8 WKS	None Reported View Distributors		
SNJ54ABT541W	ACTIVE	CFP (W) | 20	-55 TO 125	5962-9471801QSA	View Contents	1KU | 8.58	1	0*	>10k | 20 May	8 WKS	None Reported View Distributors		

Table Data Updated on: 4/17/2003

Product Folder: SN54ABT541, Octal Buffers/Drivers With 3-State Outputs

SN74ABT541B, Octal Buffers/Drivers With 3-State Outputs
DEVICE STATUS: **ACTIVE**

PARAMETER NAME	SN74ABT541B
Voltage Nodes (V)	5
Vcc range (V)	4.5 to 5.5
Input Level	TTL
Output Level	TTL
Output Drive (mA)	-32/64
tpd max (ns)	3.9
Static Current	15.12

FEATURES

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DATASHEET

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Product Folder: SN74ABT541B, Octal Buffers/Drivers With 3-State Outputs

Full datasheet in Acrobat PDF: sn74abt541b.pdf (94 KB,Rev.K) (Updated: 10/06/1998)

APPLICATION NOTES

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- 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)
- Timing Differences of 10-pF Versus 50pF Loading (SCEA004 - Updated: 11/01/1996)
- 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
SN74ABT541BDBR	SSOP (DB)	20	-40 TO 85	ACTIVE	View Product Content	Request Samples
SN74ABT541BDW	SOIC (DW)	20	-40 TO 85	ACTIVE	View Product Content	Request Samples
SN74ABT541BN	PDIP (N)	20	-40 TO 85	ACTIVE	View Product Content	Request Samples
SN74ABT541BPWR	TSSOP (PW)	20	-40 TO 85	ACTIVE	View Product Content	Request Samples

PRICING/AVAILABILITY/PKG

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Product Folder: SN74ABT541B, Octal Buffers/Drivers With 3-State Outputs

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 | $US	STD PACK QTY	IN STOCK	IN PROGRESS QTY | DATE	LEAD TIME	DISTRIBUTOR COMPANY | REGION	IN STOCK	PURCHASE
SN74ABT541BDBLE	OBSOLETE	SSOP (DB) | 20	-40 TO 85	View Contents	1KU |		0*		Call**	None Reported View Distributors		
SN74ABT541BDBR	ACTIVE	SSOP (DB) | 20	-40 TO 85	View Contents	1KU | 0.31	2000	0*	520 | 21 Apr	2 WKS	EBV Electronik | Europe	>1k	BUY NOW
								>10k | 28 Apr		DigiKey | Americas	>1k	BUY NOW
SN74ABT541BDW	ACTIVE	SOIC (DW) | 20	-40 TO 85	View Contents	1KU | 0.31	25	2075*	>10k | 08 May	4 WKS	Avnet | Americas	>1k	BUY NOW
										EBV Electronik | Europe	>1k	BUY NOW
										Arrow | Americas	>1k	BUY NOW
										Insight | Americas	>1k	BUY NOW
										Newark Electronics | Americas	644	BUY NOW
										DigiKey | Americas	45	BUY NOW
										Avnet-SILICA | Europe	41	BUY NOW
SN74ABT541BDWR	ACTIVE	SOIC (DW) | 20	-40 TO 85	View Contents	1KU | 0.31	2000	0*	4978 | 22 Apr	3 WKS	Arrow | Americas	>1k	BUY NOW
								7600 | 05 May				
										EBV Electronik | Europe	>1k	BUY NOW
										Insight | Americas	>1k	BUY NOW
SN74ABT541BN	ACTIVE	PDIP (N) | 20	-40 TO 85	View Contents	1KU | 0.31	20	5829*		4 WKS	Avnet-SILICA | Europe	>1k	BUY NOW
										Avnet | Americas	>1k	BUY NOW
										EBV Electronik | Europe	>1k	BUY NOW
SN74ABT541BNSR	ACTIVE	SOP (NS) | 20		View Contents	1KU | 0.86	2000	0*	>10k | 12 May	4 WKS	DigiKey | Americas	706	BUY NOW
										Arrow | Americas	650	BUY NOW
SN74ABT541BPW	ACTIVE	TSSOP (PW) | 20	-40 TO 85	View Contents	1KU | 0.55	70	0*	756 | 21 Apr	4 WKS	None Reported View Distributors		
								>10k | 08 May		None Reported View Distributors		
SN74ABT541BPWLE	OBSOLETE	TSSOP (PW) | 20	-40 TO 85	View Contents	1KU |		0*		Call**			
SN74ABT541BPWR	ACTIVE	TSSOP (PW) | 20	-40 TO 85	View Contents	1KU | 0.31	2000	0*	>10k | 08 May	3 WKS	None Reported View Distributors		
										EBV Electronik | Europe	>1k	BUY NOW

Product Folder: SN74ABT541B, Octal Buffers/Drivers With 3-State Outputs

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