- 2-V to 6-V V_{CC} Operation
- Inputs Accept Voltages to 6 V
- Max t_{pd} of 11 ns at 5 V
- 3-State Inverting Outputs Drive Bus Lines Directly
- Full Parallel Access for Loading

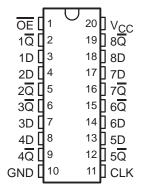
description/ordering information

These octal edge-triggered D-type flip-flops feature 3-state outputs designed specifically for driving highly capacitive or relatively low-impedance loads. The devices are particularly suitable for implementing buffer registers, I/O ports, bidirectional bus drivers, and working registers.

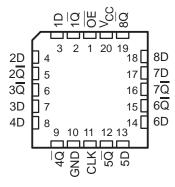
On the positive transition of the clock (CLK) input, the \overline{Q} outputs are set to the complements of the logic levels set up at the data (D) inputs.

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 the 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.

SN54AC534 . . . J OR W PACKAGE SN74AC534 . . . DB, DW, N, NS, OR PW PACKAGE (TOP VIEW)



SN54AC534 . . . FK PACKAGE (TOP VIEW)



OE does not affect internal operations of the flip-flops. Old data can be retained or new data can be entered while the outputs are in the high-impedance state.

ORDERING INFORMATION

TA	PACKAGE	<u>=</u> †	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	PDIP – N	Tube	SN74AC534N	SN74AC534N
-40°C to 85°C	COIC DW	Tube	SN74AC534DW	10524
	SOIC – DW	Tape and reel	SN74AC534DWR	AC534
	SOP - NS	Tape and reel	SN74AC534NSR	AC534
	SSOP – DB	Tape and reel	SN74AC534DBR	AC534
	TOOOD DW	Tube	SN74AC534PW	10504
	TSSOP – PW	Tape and reel	SN74AC534PWR	AC534
	CDIP – J	Tube	SNJ54AC534J	SNJ54AC534J
–55°C to 125°C	CFP – W	Tube	SNJ54AC534W	SNJ54AC534W
	LCCC - FK	Tube	SNJ54AC534FK	SNJ54AC534FK

[†] Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.



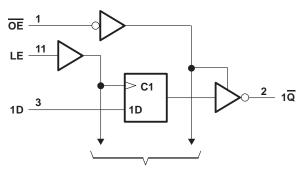
description/ordering information (continued)

To ensure the high-impedance state during power up or power down, $\overline{\text{OE}}$ 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.

FUNCTION TABLE (each flip-flop)

	INPUTS	OUTPUT	
OE	CLK	D	Q
L	1	Н	L
L	\uparrow	L	Н
L	H or L	Χ	\overline{Q}_0
Н	X	Χ	Z

logic diagram (positive logic)



To Seven Other Channels

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

Supply voltage range, V _{CC}		
Output voltage range, V_O (see Note 1) Input clamp current, I_{IK} ($V_I < 0$ or $V_I > V_{CC}$)		$0.5 \text{ V to V}_{CC} + 0.5 \text{ V}$
Output clamp current, I _{OK} (V _O < 0 or V _O > V _C	C)	±20 mA
Continuous output current, I_O ($V_O = 0$ to V_{CC}) Continuous current through V_{CC} or GND		
Package thermal impedance, θ _{JA} (see Note 2)	: DB package	70°C/W
	DW package	58°C/W
	N package	69°C/W
	NS package	60°C/W
	PW package	83°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 voltage ratings may be exceeded if the input and output current ratings are observed.
 - 2. The package thermal impedance is calculated in accordance with JESD 51-7.



recommended operating conditions (see Note 3)

			SN54 <i>A</i>	C534	SN74A	C534	LINIT
			MIN	MAX	MIN	MAX	UNIT
VCC	Supply voltage		2	6	2	6	V
		V _{CC} = 3 V	2.1		2.1		
V_{IH}	High-level input voltage	$V_{CC} = 4.5 \text{ V}$	3.15		3.15		V
		$V_{CC} = 5.5 \text{ V}$	3.85		3.85		
		V _{CC} = 3 V		0.9		0.9	
VIL	Low-level input voltage	V _{CC} = 4.5 V		1.35		1.35	V
		$V_{CC} = 5.5 V$		1.65		1.65	
VI	Input voltage		0	Vcc	0	Vcc	V
VO	Output voltage		0	Vcc	0	Vcc	V
		V _{CC} = 3 V	200	-12		-12	
loh	High-level output current	V _{CC} = 4.5 V	W.	-24		-24	mA
		V _{CC} = 5.5 V		-24		-24	
		V _{CC} = 3 V		12		12	
loL	Low-level output current	V _{CC} = 4.5 V		24		24	mA
		V _{CC} = 5.5 V		24		24	
Δt/Δν	Input transition rise or fall rate			8		8	ns/V
TA	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)

DADAMETED	TEST SOMBITIONS		T,	Δ = 25°C	;	SN54A	C534	SN74A	C534	LINUT	
PARAMETER	TEST CONDITIONS	VCC	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT	
		3 V	2.9			2.9		2.9			
	I _{OH} = -50 μA	4.5 V	4.4			4.4		4.4			
.,		5.5 V	5.4			5.4		5.4			
Voн	I _{OH} = -12 mA	3 V	2.56			2.4	7	2.46		V	
	1 24 mA	4.5 V	3.86			3.7	1/5	3.76			
	$I_{OH} = -24 \text{ mA}$	5.5 V	4.86			4.7	9E	4.76			
		3 V			0.1	1	0.1		0.1		
	I _{OL} = 50 μA	4.5 V			0.1	O_{j_2}	0.1		0.1		
.,		5.5 V			0.1	³ 0,	0.1		0.1		
VOL	I _{OL} = 12 mA	3 V			0.36	ya	0.5		0.44	V	
		4.5 V			0.36		0.5		0.44		
	I _{OL} = 24 mA	5.5 V			0.36		0.5		0.44		
loz	$V_O = V_{CC}$ or GND	5.5 V			±0.5		±5		±2.5	μΑ	
l _l	V _I = V _{CC} or GND	5.5 V			±0.1		±1		±1	μΑ	
lcc	$V_I = V_{CC}$ or GND, $I_O = 0$	5.5 V			4		80		40	μΑ	
C _i	V _I = V _{CC} or GND	5 V		4.5						pF	

SN54AC534, SN74AC534 OCTAL EDGE-TRIGGERED D-TYPE FLIP-FLOPS WITH 3-STATE OUTPUTS

SCAS554D - NOVEMBER 1995 - REVISED OCTOBER 2003

timing requirements over recommended operating free-air temperature range, V_{CC} = 3.3 V \pm 0.3 V (unless otherwise noted) (see Figure 1)

		T _A = 1	25°C	SN54A0	C534	SN74A	C534	
		MIN	MAX	MIN	MAX	MIN	MAX	UNIT
fclock	Clock frequency		70	Ğ.	60		70	MHz
t _W	Pulse duration, CLK high or low	5		8	7/6	6.5		ns
t _{su}	Setup time, data before CLK↑	5		2.8	4	6.5		ns
t _h	Hold time, data after CLK↑	1		3		1.5		ns

timing requirements over recommended operating free-air temperature range, V_{CC} = 5 V \pm 0.5 V (unless otherwise noted) (see Figure 1)

		T _A = 1	25°C	SN54A	C534	SN74A	C534	
		MIN	MAX	MIN	MAX	MIN	MAX	UNIT
fclock	Clock frequency		150	9	75		140	MHz
t _W	Pulse duration, CLK high or low	3.5		5.5	:M	4		ns
t _{su}	Setup time, data before CLK↑	3.5		5.5	72	4		ns
th	Hold time, data after CLK↑	1		3		1.5	·	ns

switching characteristics over recommended operating free-air temperature range, V_{CC} = 3.3 V \pm 0.3 V (unless otherwise noted) (see Figure 1)

DADAMETED	FROM	то	T _A = 25°C		SN54AC534		SN74AC534		UNIT
PARAMETER	(INPUT)	(OUTPUT)	MIN	MAX	MIN	MAX	MIN	MAX	UNII
f _{max}			70		60	FV	70		MHz
t _{PLH}	OL IV	Ια	3	14	2 4	17.5	2.5	16	
^t PHL	CLK	α	3	13	2	16.5	2.5	15	ns
^t PZH	ŌĒ	Θ	3	12.5	2	15.5	2.5	14	
t _{PZL}	OE	α	3	12.5	2	15.5	2.5	14	ns
t _{PHZ}	ŌĒ	Ια	2	13.5	1	16.5	1.5	15	no
tPLZ	OE	ά	2	12	1	15	1.5	13.5	ns

switching characteristics over recommended operating free-air temperature range, V_{CC} = 5 V \pm 0.5 V (unless otherwise noted) (see Figure 1)

DADAMETED	FROM	то	T _A = 25°C		SN54A	C534	SN74A	C534	
PARAMETER	(INPUT)	(OUTPUT)	MIN	MAX	MIN	MAX	MIN	MAX	UNIT
f _{max}			150		75	196	140		MHz
^t PLH	01.14	Ια	2.5	10.5	1.5	13.5	2	12	
^t PHL	CLK	α	2.5	9.5	1.5	12.5	2	11	ns
^t PZH	<u> </u>	ρl	2.5	10	01.5	13	2	11.5	
t _{PZL}	OE	α	2.5	10	1.5	13	2	11.5	ns
t _{PHZ}	ŌĒ	OE Q		11.5	1	14	1	12.5	ne
tPLZ	OE	ά	1.5	10	1	12.5	1	11	ns

operating characteristics, $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$

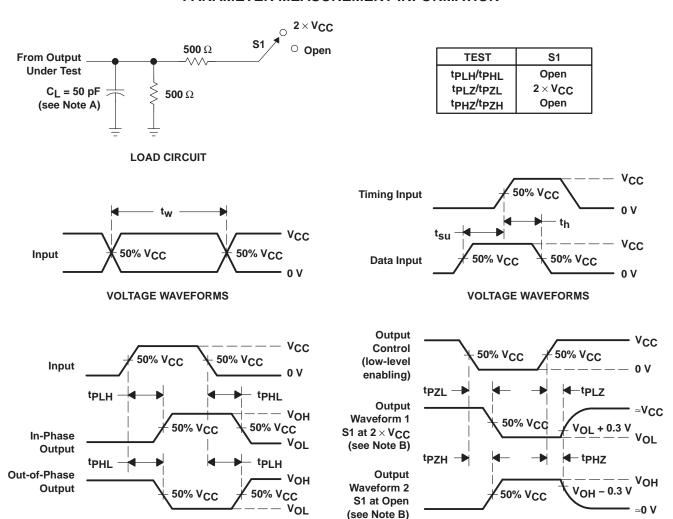
	PARAMETER	TEST CO	TYP	UNIT	
C _{pd}	Power dissipation capacitance	$C_L = 50 pF$,	f = 1 MHz	40	pF

PRODUCT PREVIEW information concerns products in the formative or design phase of development. Characteristic data and other specifications are design goals. Texas Instruments reserves the right to change or discontinue these products without notice.



VOLTAGE WAVEFORMS

PARAMETER MEASUREMENT INFORMATION



NOTES: A. C_L includes probe and jig capacitance.

VOLTAGE WAVEFORMS

- 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 1 MHz, $Z_O = 50 \,\Omega$, $t_f \leq 2.5 \,$ ns, $t_f \leq 2.5 \,$ ns.
- D. The outputs are measured one at a time with one input transition per measurement.

Figure 1. Load Circuit and Voltage Waveforms





10-Jun-2014

PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package	Pins	Package	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
	(1)		Drawing		Qty	(2)	(6)	(3)		(4/5)	
SN74AC534DBLE	OBSOLETE	SSOP	DB	20		TBD	Call TI	Call TI	-40 to 85		
SN74AC534DBR	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AC534	Samples
SN74AC534DW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AC534	Samples
SN74AC534DWR	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AC534	Samples
SN74AC534N	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-40 to 85	SN74AC534N	Samples
SN74AC534NSR	ACTIVE	so	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AC534	Samples
SN74AC534PW	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AC534	Samples
SN74AC534PWLE	OBSOLETE	TSSOP	PW	20		TBD	Call TI	Call TI	-40 to 85		
SN74AC534PWR	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AC534	Samples

(1) The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

(2) Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.

TBD: The Pb-Free/Green conversion plan has not been defined.

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Pb-Free (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

⁽³⁾ MSL, Peak Temp. - The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.



PACKAGE OPTION ADDENDUM

10-Jun-2014

- (4) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.
- (5) Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.
- (6) Lead/Ball Finish Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead/Ball Finish values may wrap to two lines if the finish value exceeds the maximum column width.

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PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





	Dimension designed to accommodate the component width
B0	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

All difficults are florifinal												
Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74AC534DBR	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74AC534DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
SN74AC534NSR	so	NS	20	2000	330.0	24.4	9.0	13.0	2.4	12.0	24.0	Q1
SN74AC534PWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1

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*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AC534DBR	SSOP	DB	20	2000	367.0	367.0	38.0
SN74AC534DWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74AC534NSR	SO	NS	20	2000	367.0	367.0	45.0
SN74AC534PWR	TSSOP	PW	20	2000	367.0	367.0	38.0

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.





SOIC



- 1. All linear dimensions are in millimeters. Dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.

 2. This drawing is subject to change without notice.

 3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not
- exceed 0.15 mm per side.
- 4. This dimension does not include interlead flash. Interlead flash shall not exceed 0.43 mm per side.
- 5. Reference JEDEC registration MS-013.



SOIC



NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

7. Solder mask tolerances between and around signal pads can vary based on board fabrication site.



SOIC



NOTES: (continued)

- 8. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
- 9. Board assembly site may have different recommendations for stencil design.



PW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M—1994.
- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0,15 each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0,25 each side.
- E. Falls within JEDEC MO-153



PW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



- All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
 C. Publication IPC-7351 is recommended for alternate design.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



DB (R-PDSO-G**)

PLASTIC SMALL-OUTLINE

28 PINS SHOWN



NOTES: A. All linear dimensions are in millimeters.

B. This drawing is subject to change without notice.

C. Body dimensions do not include mold flash or protrusion not to exceed 0,15.

D. Falls within JEDEC MO-150

MECHANICAL DATA

NS (R-PDSO-G**)

14-PINS SHOWN

PLASTIC SMALL-OUTLINE PACKAGE



- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15.



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