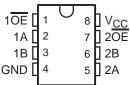
- Undershoot Protection for Off-Isolation on A and B Ports Up To -2 V
- Bidirectional Data Flow, With Near-Zero Propagation Delay
- Low ON-State Resistance (r<sub>on</sub>)
   Characteristics (r<sub>on</sub> = 3 Ω Typical)
- Low Input/Output Capacitance Minimizes Loading and Signal Distortion (C<sub>io(OFF)</sub> = 5 pF Typical)
- Data and Control Inputs Provide Undershoot Clamp Diodes
- Low Power Consumption (I<sub>CC</sub> = 3 μA Max)
- V<sub>CC</sub> Operating Range From 4 V to 5.5 V
- Data I/Os Support 0 to 5-V Signaling Levels (0.8-V, 1.2-V, 1.5-V, 1.8-V, 2.5-V, 3.3-V, 5-V)

- Control Inputs Can Be Driven by TTL or 5-V/3.3-V CMOS Outputs
- I<sub>off</sub> Supports Partial-Power-Down Mode Operation
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II
- ESD Performance Tested Per JESD 22
  - 2000-V Human-Body Model (A114-B, Class II)
  - 1000-V Charged-Device Model (C101)
- Supports Both Digital and Analog Applications: USB Interface, Bus Isolation, Low-Distortion Signal Gating

# OF PW PACKAGE (TOP VIEW)



### description/ordering information

The SN74CBT3306C is a high-speed TTL-compatible FET bus switch with low ON-state resistance ( $r_{on}$ ), allowing for minimal propagation delay. Active Undershoot-Protection Circuitry on the A and B ports of the SN74CBT3306C provides protection for undershoot up to -2 V by sensing an undershoot event and ensuring that the switch remains in the proper OFF state.

The SN74CBT3306C is organized as two 1-bit bus switches with separate output-enable (1OE, 2OE) inputs. It can be used as two 1-bit bus switches or as one 2-bit bus switch. When  $\overline{OE}$  is low, the associated 1-bit bus switch is ON, and the A port is connected to the B port, allowing bidirectional data flow between ports. When  $\overline{OE}$  is high, the associated 1-bit bus switch is OFF, and the high-impedance state exists between the A and B ports.

#### ORDERING INFORMATION

TA	PACKA	GE <sup>†</sup>	ORDERABLE PART NUMBER	TOP-SIDE MARKING	
	SOIC - D	Tube	SN74CBT3306CD	0110000	
4000 1- 0500		Tape and reel	SN74CBT3306CDR	CU306C	
–40°C to 85°C	TSSOP – PW	Tube	SN74CBT3306CPW	CU306C	
	1330P – PW	Tape and reel	SN74CBT3306CPWR	C0306C	

<sup>†</sup> 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)

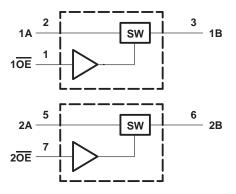
This device is fully specified for partial-power-down applications using  $I_{off}$ . The  $I_{off}$  feature ensures that damaging current will not backflow through the device when it is powered down. The device has isolation during power off.

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.

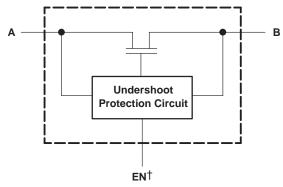
## FUNCTION TABLE (each bus switch)

INPUT OE	INPUT/OUTPUT A	FUNCTION
L	В	A port = B port
Н	Z	Disconnect

## logic diagram (positive logic)



### simplified schematic, each FET switch (SW)



<sup>†</sup>EN is the internal enable signal applied to the switch.



## SN74CBT3306C DUAL FET BUS SWITCH 5-V BUS SWITCH WITH –2-V UNDERSHOOT PROTECTION

SCDS127A - SEPTEMBER 2003 - REVISED OCTOBER 2003

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

Supply voltage range, V <sub>CC</sub>	–0.5 V to 7 V
Control input voltage range, V <sub>IN</sub> (see Notes 1 and 2)	–0.5 V to 7 V
Switch I/O voltage range, V <sub>I/O</sub> (see Notes 1, 2, and 3)	–0.5 V to 7 V
Control input clamp current, I <sub>IK</sub> (V <sub>IN</sub> < 0)	–50 mA
I/O port clamp current, $I_{I/OK}$ ( $V_{I/O}$ < 0)	–50 mA
ON-state switch current, I <sub>I/O</sub> (see Note 4)	±128 mA
Continuous current through V <sub>CC</sub> or GND terminals	±100 mA
Package thermal impedance, θ <sub>JA</sub> (see Note 5): D package	97°C/W
PW package	149°C/W
Storage temperature range, T <sub>stq</sub>	65°C to 150°C

<sup>†</sup> 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. All voltages are with respect to ground unless otherwise specified.
  - 2. The input and output voltage ratings may be exceeded if the input and output clamp-current ratings are observed.
  - 3.  $V_I$  and  $V_O$  are used to denote specific conditions for  $V_{I/O}$ .
  - 4. I<sub>I</sub> and I<sub>O</sub> are used to denote specific conditions for I<sub>I/O</sub>.
  - 5. The package thermal impedance is calculated in accordance with JESD 51-7.

## recommended operating conditions (see Note 6)

		MIN	MAX	UNIT
VCC	Supply voltage	4	5.5	V
VIH	High-level control input voltage	2	5.5	V
VIL	Low-level control input voltage	0	0.8	V
V <sub>I/O</sub>	Data input/output voltage	0	5.5	V
TA	Operating free-air temperature	-40	85	°C

NOTE 6: All unused control inputs of the device must be held at V<sub>CC</sub> 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)

PAR	RAMETER		TEST CONDITIO	NS	MIN	TYP	MAX	UNIT
VIK	Control inputs	$V_{CC} = 4.5 \text{ V},$	$I_{IN} = -18 \text{ mA}$				-1.8	V
VIKU	Data inputs	V <sub>CC</sub> = 5 V,	$0 \text{ mA} > I_{I} \ge -50 \text{ mA},$ $V_{IN} = V_{CC} \text{ or GND},$	Switch OFF			-2	٧
I <sub>IN</sub>	Control inputs	$V_{CC} = 5.5 \text{ V},$	$V_{IN} = V_{CC}$ or GND				±1	μΑ
loz‡		V <sub>CC</sub> = 5.5 V,	$V_O = 0 \text{ to } 5.5 \text{ V},$ $V_I = 0,$	Switch OFF, V <sub>IN</sub> = V <sub>CC</sub> or GND			±10	μА
I <sub>off</sub>		$V_{CC} = 0$ ,	$V_0 = 0 \text{ to } 5.5 \text{ V},$	V <sub>I</sub> = 0			10	μΑ
ICC		V <sub>CC</sub> = 5.5 V,	$I_{I/O} = 0,$ $V_{IN} = V_{CC} \text{ or GND},$	Switch ON or OFF			3	μА
∆lCC§	Control inputs	$V_{CC} = 5.5 \text{ V},$	One input at 3.4 V,	Other inputs at V <sub>CC</sub> or GND			2.5	mA
C <sub>in</sub>	Control inputs	$V_{IN} = 3 V \text{ or } 0$				3.5		pF
C <sub>io(OFF)</sub>		$V_{I/O} = 3 \text{ V or } 0,$	Switch OFF,	$V_{IN} = V_{CC}$ or GND		5		pF
C <sub>io(ON)</sub>		$V_{I/O} = 3 \text{ V or } 0,$	Switch ON,	$V_{IN} = V_{CC}$ or GND		12.5		pF
r <sub>on</sub> ¶		$V_{CC} = 4 \text{ V},$ TYP at $V_{CC} = 4 \text{ V}$	V <sub>I</sub> = 2.4 V,	I <sub>O</sub> = -15 mA		8	12	
			V 0	I <sub>O</sub> = 64 mA		3	6	Ω
		V <sub>CC</sub> = 4.5 V	V <sub>I</sub> = 0	I <sub>O</sub> = 30 mA	3		6	
			V <sub>I</sub> = 2.4 V,	$I_O = -15 \text{ mA}$		5	10	

 $V_{\mbox{\footnotesize{IN}}}$  and  $I_{\mbox{\footnotesize{IN}}}$  refer to control inputs.  $V_{\mbox{\footnotesize{I}}},\,V_{\mbox{\footnotesize{O}}},\,I_{\mbox{\footnotesize{I}}},$  and  $I_{\mbox{\footnotesize{O}}}$  refer to data pins.

## switching characteristics over recommended operating free-air temperature range (unless otherwise noted) (see Figure 3)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V <sub>CC</sub> = 4 V	У <sub>С</sub> С	V <sub>CC</sub> = 5 V ± 0.5 V		
	(INPOT)	(001701)	MIN MA	X MIN	MAX		
t <sub>pd</sub> #	A or B	B or A	0.2	4	0.15	ns	
t <sub>en</sub>	ŌĒ	A or B	4.	6 1.5	4.2	ns	
t <sub>dis</sub>	ŌĒ	A or B	4.	3 1.5	4.3	ns	

<sup>#</sup> The propagation delay is the calculated RC time constant of the typical ON-state resistance of the switch and the specified load capacitance, when driven by an ideal voltage source (zero output impedance).

<sup>†</sup> All typical values are at  $V_{CC}$  = 5 V (unless otherwise noted),  $T_A$  = 25°C.

<sup>‡</sup> For I/O ports, the parameter I<sub>OZ</sub> includes the input leakage current.

<sup>§</sup> This is the increase in supply current for each input that is at the specified voltage level, rather than V<sub>CC</sub> or GND.

<sup>¶</sup> Measured by the voltage drop between the A and B terminals at the indicated current through the switch. ON-state resistance is determined by the lower of the voltages of the two (A or B) terminals.

## undershoot characteristics (see Figures 1 and 2)

PARAMETER		TEST CONDI	MIN	TYP†	MAX	UNIT	
VOUTU	$V_{CC} = 5.5 \text{ V},$	Switch OFF,	$V_{IN} = V_{CC}$ or GND	2	V <sub>OH</sub> -0.3		V

 $<sup>\</sup>dagger$  All typical values are at V<sub>CC</sub> = 5 V (unless otherwise noted), T<sub>A</sub> = 25°C.

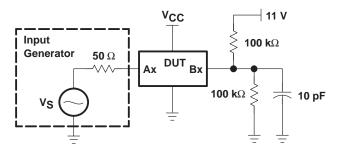


Figure 1. Device Test Setup

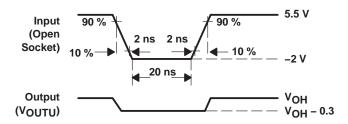
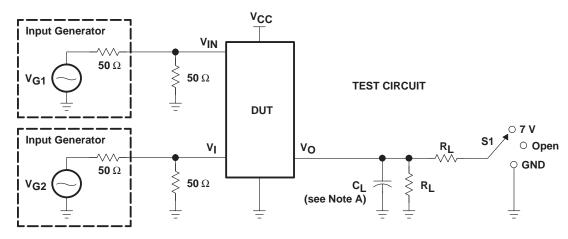
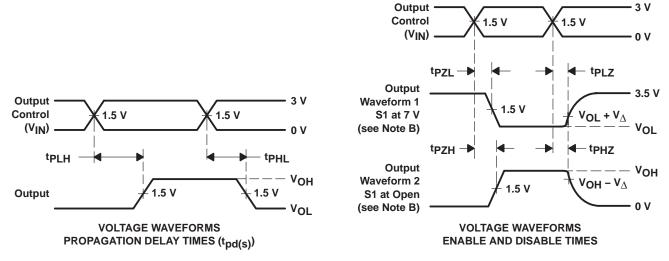


Figure 2. Transient Input Voltage (V<sub>I</sub>) and Output Voltage (V<sub>OUTU</sub>) Waveforms (Switch OFF)

#### PARAMETER MEASUREMENT INFORMATION



TEST	VCC	S1	RL	VI	CL	$v_{\!\scriptscriptstyle\Delta}$
<sup>t</sup> pd(s)	$\begin{array}{c} \textbf{5 V} \pm \textbf{0.5 V} \\ \textbf{4 V} \end{array}$	Open Open	<b>500</b> Ω <b>500</b> Ω	V <sub>CC</sub> or GND V <sub>CC</sub> or GND	50 pF 50 pF	
tPLZ/tPZL	5 V ± 0.5 V 4 V	7 V 7 V	<b>500</b> Ω <b>500</b> Ω	GND GND	50 pF 50 pF	0.3 V 0.3 V
tPHZ/tPZH	5 V ± 0.5 V 4 V	Open Open	<b>500</b> Ω <b>500</b> Ω	V <sub>CC</sub>	50 pF 50 pF	0.3 V 0.3 V



NOTES: A. C<sub>L</sub> 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 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 transition per measurement.
- E. tpLZ and tpHZ are the same as tdis.
- F. tpzL and tpzH are the same as ten.
- G. tplH and tpHL are the same as tpd(s). The tpd propagation delay is the calculated RC time constant of the typical ON-state resistance of the switch and the specified load capacitance, when driven by an ideal voltage source (zero output impedance).
- H. All parameters and waveforms are not applicable to all devices.

Figure 3. Test Circuit and Voltage Waveforms







11-Aug-2014

#### **PACKAGING INFORMATION**

Orderable Device	Status	Package Type	Package Drawing		Package Qty	Eco Plan	Lead/Ball Finish (6)	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
SN74CBT3306CD	ACTIVE	SOIC	D	8	75	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	CU306C	Samples
SN74CBT3306CDR	ACTIVE	SOIC	D	8	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	CU306C	Samples
SN74CBT3306CPW	ACTIVE	TSSOP	PW	8	150	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	CU306C	Samples
SN74CBT3306CPWR	ACTIVE	TSSOP	PW	8	2000	Green (RoHS & no Sb/Br)	CU NIPDAU   CU SN	Level-1-260C-UNLIM	-40 to 85	CU306C	Samples
SN74CBT3306CPWRE4	ACTIVE	TSSOP	PW	8		TBD	Call TI	Call TI	-40 to 85		Samples
SN74CBT3306CPWRG4	OBSOLETE	TSSOP	PW	8		TBD	Call TI	Call TI	-40 to 85		

(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.

**Pb-Free** (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes. **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)

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

<sup>(4)</sup> There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.

<sup>(5)</sup> 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.



## **PACKAGE OPTION ADDENDUM**

11-Aug-2014

(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
	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

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
SN74CBT3306CDR	SOIC	D	8	2500	330.0	12.4	6.4	5.2	2.1	8.0	12.0	Q1
SN74CBT3306CPWR	TSSOP	PW	8	2000	330.0	12.4	7.0	3.6	1.6	8.0	12.0	Q1
SN74CBT3306CPWR	TSSOP	PW	8	2000	330.0	12.4	7.0	3.6	1.6	8.0	12.0	Q1

www.ti.com 22-Jan-2015



\*All dimensions are nominal

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Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74CBT3306CDR	SOIC	D	8	2500	340.5	338.1	20.6
SN74CBT3306CPWR	TSSOP	PW	8	2000	364.0	364.0	27.0
SN74CBT3306CPWR	TSSOP	PW	8	2000	367.0	367.0	35.0



SMALL OUTLINE PACKAGE



#### NOTES:

- 1. All linear dimensions are in millimeters. Any 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 0.25 mm per side.
- 5. Reference JEDEC registration MO-153, variation AA.



SMALL OUTLINE PACKAGE



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.



SMALL OUTLINE PACKAGE



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.



## D (R-PDSO-G8)

## PLASTIC SMALL OUTLINE



NOTES:

- A. All linear dimensions are in inches (millimeters).
- 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 0.006 (0,15) each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0.017 (0,43) each side.
- E. Reference JEDEC MS-012 variation AA.



## D (R-PDSO-G8)

## PLASTIC SMALL OUTLINE



NOTES:

- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 is recommended for alternate designs.
- 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.



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