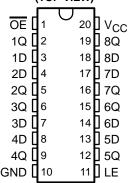
SCBS016D - SEPTEMBER 1988 - REVISED MARCH 2003

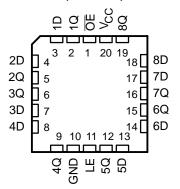
- Operating Voltage Range of 4.5 V to 5.5 V
- State-of-the-Art BiCMOS Design Significantly Reduces I_{CCZ}
- Full Parallel Access for Loading

SN54BCT373...J OR W PACKAGE SN74BCT373...DB, DW, N, OR NS PACKAGE (TOP VIEW)



- 3-State Outputs Drive Bus Lines or Buffer Memory Address Registers
- ESD Protection Exceeds JESD 22
 2000-V Human-Body Model (A114-A)

SN54BCT373 . . . FK PACKAGE (TOP VIEW)



description/ordering information

These 8-bit latches feature 3-state outputs 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 latches of the 'BCT373 devices are transparent D-type latches. While the latch-enable (LE) input is high, the Q outputs follow the data (D) inputs. When the latch enable is taken low, the Q outputs are latched at the logic levels that were set up at the 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 interface or pullup components.

ORDERING INFORMATION

TA	PACKA	GEŤ	ORDERABLE PART NUMBER	TOP-SIDE Marking
	PDIP – N	Tube	SN74BCT373N	SN74BCT373N
	SOIC - DW	Tube	SN74BCT373DW	BCT373
0°C to 70°C	301C - DVV	Tape and reel	SN74BCT373DWR	BC1373
	SOP - NS	Tape and reel	SN74BCT373NSR	BCT373
	SSOP – DB	Tape and reel	SN74BCT373DBR	BT373
	CDIP – J	Tube	SNJ54BCT373J	SNJ54BCT373J
–55°C to 125°C	CFP – W	Tube	SNJ54BCT373W	SNJ54BCT373W
	LCCC – FK	Tube	SNJ54BCT373FK	SNJ54BCT373FK

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



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description/ordering information (continued)

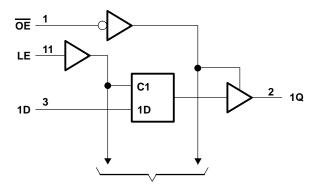
To ensure the high-impedance state during power up or power down, $\overline{\text{OE}}$ should be tied to V_{CC} through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

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

FUNCTION TABLE (each latch)

	INPUTS	OUTPUT	
Œ	LE	Q	
L	Н	Н	Н
L	Н	L	L
L	L	Χ	Q_0
Н	X	Χ	Z

logic diagram (positive logic)



To Seven Other Channels

SN54BCT373, SN74BCT373 OCTAL TRANSPARENT D-TYPE LATCHES WITH 3-STATE OUTPUTS

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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 disabled or power-off state, VO	
Voltage range applied to any output in the high state, VO	–0.5 V to V _{CC}
Input clamp current, I _{IK}	
Current into any output in the low state: SN54BCT373	96 mA
SN74BCT373	
Package thermal impedance, θ _{JA} (see Note 2): DB package	
DW package	58°C/W
N package	69°C/W
NS package	60°C/W
Storage temperature range, T _{stq}	

[†] 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)

		SN	54BCT3	73	SN	74BCT3	73	UNIT
		MIN	NOM	MAX	MIN	NOM	MAX	UNIT
Vcc	Supply voltage	4.5	5	5.5	4.5	5	5.5	V
VIH	High-level input voltage	2			2			V
V_{IL}	Low-level input voltage			0.8			0.8	V
liK	Input clamp current			-18			-18	mA
ЮН	High-level output current			-12			-15	mA
lOL	Low-level output current			48			64	mA
TA	Operating free-air temperature	- 55		125	0		70	°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.



SN54BCT373, **SN74BCT373 OCTAL TRANSPARENT D-TYPE LATCHES** WITH 3-STATE OUTPUTS

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

DADAMETED	TE 6	T CONDITIONS	SN	54BCT3	73	SN	74BCT3	73	UNIT
PARAMETER	TES	T CONDITIONS	MIN	TYP [†]	MAX	MIN	TYP [†]	MAX	UNIT
VIK	$V_{CC} = 4.5 \text{ V},$	I _I = -18 mA			-1.2			-1.2	V
		$I_{OH} = -3 \text{ mA}$	2.4	3.3		2.4	3.3		
Voн	V _{CC} = 4.5 V	$I_{OH} = -12 \text{ mA}$	2	3.2					V
		$I_{OH} = -15 \text{ mA}$				2	3.1		
Vo.	V _{CC} = 4.5 V	$I_{OL} = 48 \text{ mA}$		0.38	0.55				V
VOL	VCC = 4.5 V	$I_{OL} = 64 \text{ mA}$					0.42	0.55	V
lį	V _{CC} = 5.5 V,	V _I = 5.5 V			0.4			0.4	mA
lіН	$V_{CC} = 5.5 \text{ V},$	V _I = 2.7 V			20			20	μΑ
IIL	$V_{CC} = 5.5 \text{ V},$	V _I = 0.5 V			-0.6			-0.6	mA
los [‡]	V _{CC} = 5.5 V,	VO = 0	-100		-225	-100		-225	mA
IOZH	V _{CC} = 5.5 V,	V _O = 2.7 V			50			50	μΑ
lozL	V _{CC} = 5.5 V,	V _O = 0.5 V			-50			-50	μΑ
ICCL	V _{CC} = 5.5 V			37	60		37	60	mA
ICCH	V _{CC} = 5.5 V			2	5		2	5	mA
lccz	V _{CC} = 5.5 V			5	8		5	8	mA
Ci	V _{CC} = 5 V,	V _I = 2.5 V or 0.5 V		6			6		pF
Co	V _{CC} = 5 V,	$V_0 = 2.5 \text{ V or } 0.5 \text{ V}$		11			11		pF

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

		V _{CC} =	$V_{CC} = 5 \text{ V},$ $T_A = 25^{\circ}\text{C}$		CT373	SN74B	СТ373	UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	
t _W	Pulse duration, LE high	7.5		7.5		7.5		ns
t _{su}	Setup time, data before LE↓	2		2		2		ns
t _h	Hold time, data after LE↓	5.5		5.5		5.5		ns



[†] All typical values are at V_{CC} = 5 V, T_A = 25°C. ‡ Not more than one output should be tested at a time, and the duration of the test should not exceed one second.

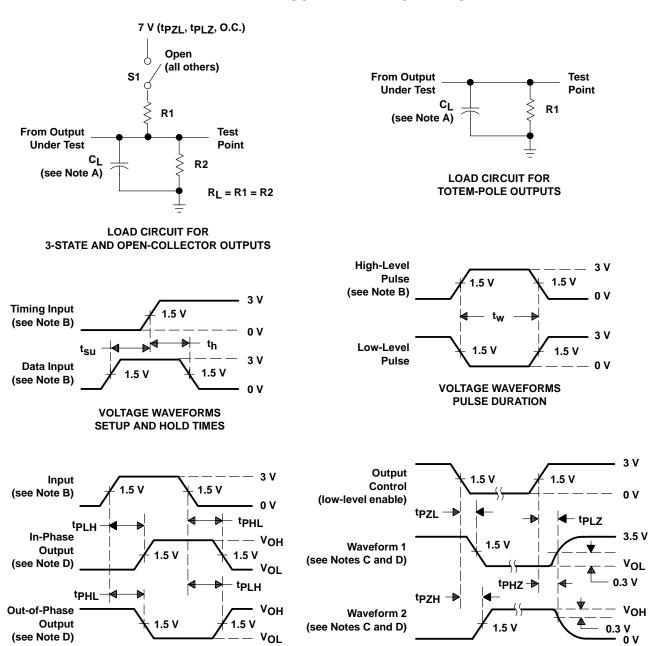
switching characteristics (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	C _I R1 R2 T _A	CC = 5 V = 50 pl I = 500 Ω 2 = 500 Ω \ = 25°C	F, Ω, Ω,	C R R	L = 50 p 1 = 500 2 = 500 4 = MIN	Ω,		UNIT
			MIN	TYP	MAX	MIN	MAX	MIN	MAX	
tPLH	D	Q	2	5.9	7.7	1.5	10.1	2	9.3	ns
t _{PHL}	D	Q	2	6.7	8.5	1	10.3	1.5	9.5	115
t _{PLH}	LE	Q	2	6.2	8.2	2	10.1	2	9.3	nc
^t PHL	LL	γ	2	5.9	7.8	2	9.2	2	8.8	ns
^t PZH	ŌĒ	0	1	7.8	9.6	1	12.3	1	11.8	no
tPZL	OE	Q	1	8.2	10.2	1	12.5	1	12	ns
^t PHZ	ŌĒ	0	1	4.9	6.6	1	7.4	1	7	no
t _{PLZ}	OE .	Q	1	5	6.7	1	8.1	1	7.4	ns

[†] For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.



PARAMETER MEASUREMENT INFORMATION



NOTES: A. C_I includes probe and jig capacitance.

VOLTAGE WAVEFORMS

PROPAGATION DELAY TIMES (see Note D)

B. All input pulses are supplied by generators having the following characteristics: PRR \leq 10 MHz, $t_f = t_f \leq 2.5$ ns, duty cycle = 50%.

VOLTAGE WAVEFORMS

ENABLE AND DISABLE TIMES, 3-STATE OUTPUTS

- C. 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.
- D. The outputs are measured one at a time with one transition per measurement.
- E. When measuring propagation delay times of 3-state outputs, switch S1 is open.
- F. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms







25-Sep-2013

PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
5962-9074601M2A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	5962- 9074601M2A SNJ54BCT 373FK	Samples
5962-9074601MRA	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-9074601MR A SNJ54BCT373J	Samples
5962-9074601MSA	ACTIVE	CFP	W	20	1	TBD	Call TI	N / A for Pkg Type	-55 to 125	5962-9074601MS A SNJ54BCT373W	Samples
SN74BCT373DBLE	OBSOLETE	SSOP	DB	20		TBD	Call TI	Call TI	0 to 70		
SN74BCT373DW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	BCT373	Samples
SN74BCT373DWE4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	BCT373	Samples
SN74BCT373DWG4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	BCT373	Samples
SN74BCT373DWR	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	BCT373	Samples
SN74BCT373DWRE4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	BCT373	Samples
SN74BCT373DWRG4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	BCT373	Samples
SN74BCT373N	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN74BCT373N	Samples
SN74BCT373NE4	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN74BCT373N	Samples
SN74BCT373NSR	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	BCT373	Samples
SN74BCT373NSRE4	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	BCT373	Samples
SN74BCT373NSRG4	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	BCT373	Samples
SNJ54BCT373FK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	5962- 9074601M2A	Samples



PACKAGE OPTION ADDENDUM

25-Sep-2013

Orderable Device	Status	Package Type			Package	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
	(1)		Drawing		Qty	(2)		(3)		(4/5)	
										SNJ54BCT	
										373FK	
SNJ54BCT373J	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-9074601MR	Cl
								0 71		A	Samples
										SNJ54BCT373J	
SNJ54BCT373W	ACTIVE	CFP	W	20	1	TBD	Call TI	N / A for Pkg Type	-55 to 125	5962-9074601MS	Cl
								5 71		A	Samples
										SNJ54BCT373W	

(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)

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

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25-Sep-2013

OTHER QUALIFIED VERSIONS OF SN54BCT373, SN74BCT373:

• Military: SN54BCT373

NOTE: Qualified Version Definitions:

• Catalog - TI's standard catalog product

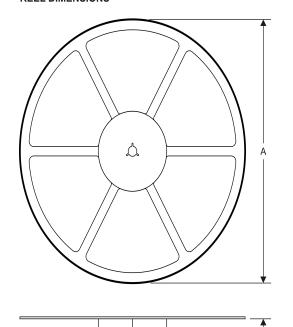
• Military - QML certified for Military and Defense Applications

PACKAGE MATERIALS INFORMATION

www.ti.com 14-Jul-2012

TAPE AND REEL INFORMATION

REEL DIMENSIONS



TAPE DIMENSIONS



A0	Dimension designed to accommodate the component width
В0	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

TAPE AND REEL INFORMATION

*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
SN74BCT373DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.0	2.7	12.0	24.0	Q1
SN74BCT373NSR	SO	NS	20	2000	330.0	24.4	8.2	13.0	2.5	12.0	24.0	Q1

www.ti.com 14-Jul-2012



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74BCT373DWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74BCT373NSR	SO	NS	20	2000	367.0	367.0	45.0

14 LEADS SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package is hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
- E. Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, GDIP1-T18 and GDIP1-T20.

W (R-GDFP-F20)

CERAMIC DUAL FLATPACK



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only.
- E. Falls within Mil-Std 1835 GDFP2-F20



FK (S-CQCC-N**)

LEADLESS CERAMIC CHIP CARRIER

28 TERMINAL SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a metal lid.
- D. Falls within JEDEC MS-004



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.



DW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



NOTES: A. All linear dimensions are in inches (millimeters). Dimensioning and tolerancing per ASME Y14.5M-1994.

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion not to exceed 0.006 (0,15).
- D. Falls within JEDEC MS-013 variation AC.



DW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Refer to IPC7351 for alternate board 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
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



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.



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

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Products Applications

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