

SN54HC14, SN74HC14 HEX SCHMITT-TRIGGER INVERTERS

SCLS085E – DECEMBER 1982 – REVISED NOVEMBER 2004

- Wide Operating Voltage Range of 2 V to 6 V
- Outputs Can Drive Up To 10 LSTTL Loads
- Low Power Consumption, 20- μ A Max I_{CC}
- Typical $t_{pd} = 11$ ns
- ± 4 -mA Output Drive at 5 V
- Low Input Current of 1 μ A Max

SN54HC14 . . . J OR W PACKAGE
SN74HC14 . . . D, DB, N, NS, OR PW PACKAGE
(TOP VIEW)



SN54HC14 . . . FK PACKAGE
(TOP VIEW)



NC – No internal connection

description/ordering information

These Schmitt-trigger devices contain six independent inverters. They perform the Boolean function $Y = \bar{A}$ in positive logic.

ORDERING INFORMATION

T _A	PACKAGE†		ORDERABLE PART NUMBER	TOP-SIDE MARKING
–40°C to 85°C	PDIP – N	Tube of 25	SN74HC14N	SN74HC14N
		Tube of 50	SN74HC14D	HC14
	SOIC – D	Reel of 2500	SN74HC14DR	
		Reel of 250	SN74HC14DT	
	SOP – NS	Reel of 2000	SN74HC14NSR	HC14
	SSOP – DB	Reel of 2000	SN74HC14DBR	HC14
	TSSOP – PW	TSSOP – PW	Tube of 90	SN74HC14PW
Reel of 2000			SN74HC14PWR	
Reel of 250			SN74HC14PWT	
–55°C to 125°C	CDIP – J	Tube	SNJ54HC14J	SNJ54HC14J
	CFP – W	Tube	SNJ54HC14W	SNJ54HC14W
	LCCC – FK	Tube	SNJ54HC14FK	SNJ54HC14FK

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



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PRODUCTION DATA information is current as of publication date. Products conform to specifications per the terms of Texas Instruments standard warranty. Production processing does not necessarily include testing of all parameters.

 **TEXAS
INSTRUMENTS**

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On products compliant to MIL-PRF-38535, all parameters are tested unless otherwise noted. On all other products, production processing does not necessarily include testing of all parameters.

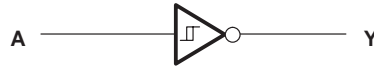
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FUNCTION TABLE
(each inverter)

INPUT A	OUTPUT Y
H	L
L	H

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 clamp current, I_{IK} ($V_I < 0$ or $V_I > V_{CC}$) (see Note 1)	±20 mA
Output clamp current, I_{OK} ($V_O < 0$ or $V_O > V_{CC}$) (see Note 1)	±20 mA
Continuous output current, I_O ($V_O = 0$ to V_{CC})	±25 mA
Continuous current through V_{CC} or GND	±50 mA
Package thermal impedance, θ_{JA} (see Note 2):	
D package	86°C/W
DB package	96°C/W
N package	80°C/W
NS package	76°C/W
PW package	113°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)

	SN54HC14			SN74HC14			UNIT
	MIN	NOM	MAX	MIN	NOM	MAX	
V_{CC} Supply voltage	2	5	6	2	5	6	V
V_I Input voltage	0		V_{CC}	0		V_{CC}	V
V_O Output voltage	0		V_{CC}	0		V_{CC}	V
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.

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

PARAMETER	TEST CONDITIONS		V _{CC}	T _A = 25°C			SN54HC14		SN74HC14		UNIT
				MIN	TYP	MAX	MIN	MAX	MIN	MAX	
V _{T+}			2 V	0.7	1.2	1.5	0.7	1.5	0.7	1.5	V
			4.5 V	1.55	2.5	3.15	1.55	3.15	1.55	3.15	
			6 V	2.1	3.3	4.2	2.1	4.2	2.1	4.2	
V _{T-}			2 V	0.3	0.6	1	0.3	1	0.3	1	V
			4.5 V	0.9	1.6	2.45	0.9	2.45	0.9	2.45	
			6 V	1.2	2	3.2	1.2	3.2	1.2	3.2	
V _{T+} - V _{T-}			2 V	0.2	0.6	1.2	0.2	1.2	0.2	1.2	V
			4.5 V	0.4	0.9	2.1	0.4	2.1	0.4	2.1	
			6 V	0.5	1.3	2.5	0.5	2.5	0.5	2.5	
V _{OH}	V _I = V _{IH} or V _{IL}	I _{OH} = -20 μA	2 V	1.9	1.998		1.9		1.9	V	
			4.5 V	4.4	4.499		4.4		4.4		
			6 V	5.9	5.999		5.9		5.9		
		I _{OH} = -4 mA	4.5 V	3.98	4.3		3.7		3.84		
		I _{OH} = -5.2 mA	6 V	5.48	5.8		5.2		5.34		
V _{OL}	V _I = V _{IH} or V _{IL}	I _{OL} = 20 μA	2 V		0.002	0.1		0.1		0.1	V
			4.5 V		0.001	0.1		0.1		0.1	
			6 V		0.001	0.1		0.1		0.1	
		I _{OL} = 4 mA	4.5 V		0.17	0.26		0.4		0.33	
		I _{OL} = 5.2 mA	6 V		0.15	0.26		0.4		0.33	
I _I	V _I = V _{CC} or 0		6 V		±0.1	±100		±1000		±1000	nA
I _{CC}	V _I = V _{CC} or 0, I _O = 0		6 V			2		40		20	μA
C _i			2 V to 6 V		3	10		10		10	pF

switching characteristics over recommended operating free-air temperature range, C_L = 50 pF (unless otherwise noted) (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC}	T _A = 25°C			SN54HC14		SN74HC14		UNIT
				MIN	TYP	MAX	MIN	MAX	MIN	MAX	
t _{pd}	A	Y	2 V		55	125		190		155	ns
			4.5 V		12	25		38		31	
			6 V		11	21		32		26	
t _t		Y	2 V		38	75		110		95	ns
			4.5 V		8	15		22		19	
			6 V		6	13		19		16	

operating characteristics, T_A = 25°C

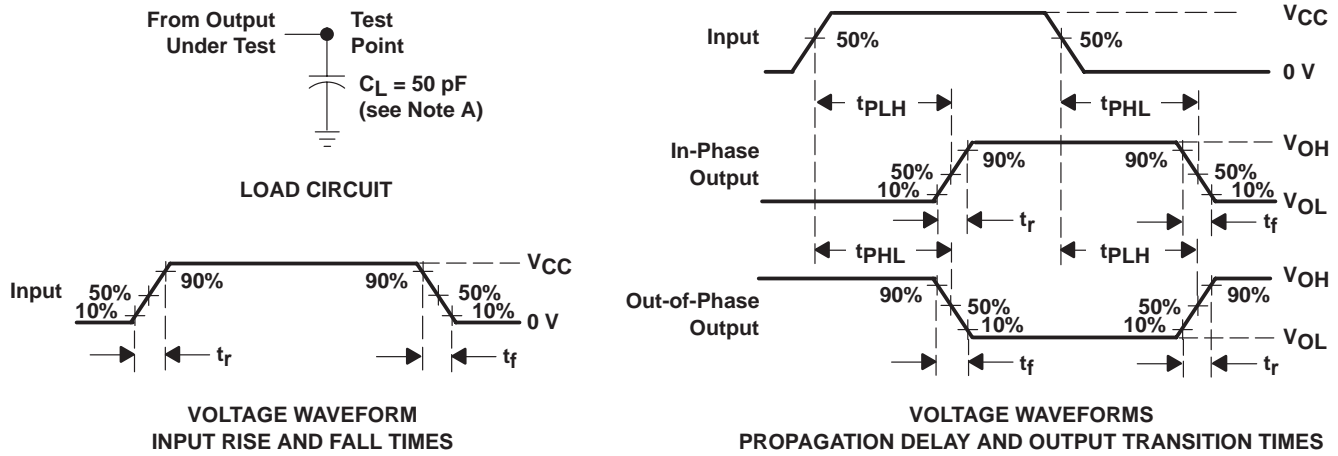
PARAMETER	TEST CONDITIONS	TYP	UNIT
C _{pd} Power dissipation capacitance per inverter	No load	20	pF



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PARAMETER MEASUREMENT INFORMATION



- NOTES:
- A. C_L includes probe and test-fixture capacitance.
 - B. Phase relationships between waveforms were chosen arbitrarily. All input pulses are supplied by generators having the following characteristics: $PRR \leq 1$ MHz, $Z_O = 50 \Omega$, $t_r = 6$ ns, $t_f = 6$ ns.
 - C. The outputs are measured one at a time, with one input transition per measurement.
 - D. t_{PLH} and t_{PHL} are the same as t_{pd} .

Figure 1. Load Circuit and Voltage Waveforms

PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
5962-8409101VCA	ACTIVE	CDIP	J	14	1	TBD	Call TI	Level-NC-NC-NC
5962-8409101VDA	ACTIVE	CFP	W	14	1	TBD	Call TI	Level-NC-NC-NC
84091012A	ACTIVE	LCCC	FK	20	1	TBD	Call TI	Level-NC-NC-NC
8409101CA	ACTIVE	CDIP	J	14	1	TBD	Call TI	Level-NC-NC-NC
8409101DA	ACTIVE	CFP	W	14	1	TBD	Call TI	Level-NC-NC-NC
JM38510/65702BCA	ACTIVE	CDIP	J	14	1	TBD	Call TI	Level-NC-NC-NC
JM38510/65702BDA	ACTIVE	CFP	W	14	1	TBD	Call TI	Level-NC-NC-NC
SN54HC14J	ACTIVE	CDIP	J	14	1	TBD	Call TI	Level-NC-NC-NC
SN74HC14D	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14DBR	ACTIVE	SSOP	DB	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14DBRE4	ACTIVE	SSOP	DB	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14DE4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14DG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14DR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14DRE4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14DRG4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14DT	ACTIVE	SOIC	D	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14DTE4	ACTIVE	SOIC	D	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14N	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	Level-NC-NC-NC
SN74HC14N3	OBSOLETE	PDIP	N	14		TBD	Call TI	Call TI
SN74HC14NE4	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	Level-NC-NC-NC
SN74HC14NSLE	OBSOLETE	SO	NS	14		TBD	Call TI	Call TI
SN74HC14NSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14NSRE4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14NSRG4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14PW	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14PWE4	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14PWG4	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14PWLE	OBSOLETE	TSSOP	PW	14		TBD	Call TI	Call TI

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
SN74HC14PWR	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14PWRE4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14PWRG4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14PWT	ACTIVE	TSSOP	PW	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14PWTE4	ACTIVE	TSSOP	PW	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC14PWTG4	ACTIVE	TSSOP	PW	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SNJ54HC14FK	ACTIVE	LCCC	FK	20	1	TBD	Call TI	Level-NC-NC-NC
SNJ54HC14J	ACTIVE	CDIP	J	14	1	TBD	Call TI	Level-NC-NC-NC
SNJ54HC14W	ACTIVE	CFP	W	14	1	TBD	Call TI	Level-NC-NC-NC

⁽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) 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.

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.

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J (R-GDIP-T**)

14 LEADS SHOWN

CERAMIC DUAL IN-LINE PACKAGE



DIM \ PINS **	14	16	18	20
A	0.300 (7,62) BSC	0.300 (7,62) BSC	0.300 (7,62) BSC	0.300 (7,62) BSC
B MAX	0.785 (19,94)	.840 (21,34)	0.960 (24,38)	1.060 (26,92)
B MIN	—	—	—	—
C MAX	0.300 (7,62)	0.300 (7,62)	0.310 (7,87)	0.300 (7,62)
C MIN	0.245 (6,22)	0.245 (6,22)	0.220 (5,59)	0.245 (6,22)



4040083/F 03/03

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

W (R-GDFP-F14)

CERAMIC DUAL FLATPACK



- NOTES:
- 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 GDFP1-F14 and JEDEC MO-092AB

FK (S-CQCC-N**)

LEADLESS CERAMIC CHIP CARRIER

28 TERMINAL SHOWN



- NOTES:
- 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. The terminals are gold plated.
 - E. Falls within JEDEC MS-004

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



4040049/E 12/2002

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

D (R-PDSO-G14)

PLASTIC SMALL-OUTLINE PACKAGE



- NOTES:
- A. All linear dimensions are in inches (millimeters).
 - 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-012 variation AB.

MECHANICAL DATA

NS (R-PDSO-G**)

PLASTIC SMALL-OUTLINE PACKAGE

14-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.

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

PW (R-PDSO-G**)

PLASTIC SMALL-OUTLINE PACKAGE

14 PINS SHOWN



4040064/F 01/97

- 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-153

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SN74HC14, Status: ACTIVE
Hex Schmitt-Trigger Inverters

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<input type="checkbox"/> Features	<input type="checkbox"/> Samples	<input type="checkbox"/> Technical Documents
<input type="checkbox"/> Quality & Pb-Free Data	<input type="checkbox"/> Pricing/Packaging	<input type="checkbox"/> Applications Notes
<input type="checkbox"/> Related Products	<input type="checkbox"/> Inventory	<input type="checkbox"/> Simulation Models
<input type="checkbox"/> Tools & Software	<input type="checkbox"/> Symbols/Footprints	<input type="checkbox"/> Reference Designs

!

Refine Your Selection

- Logic: Inverting Buffers
Drivers

Support

- KnowledgeBase
- Contact Technical Support
- TI Cross Reference
- Training
- Part Marking Lookup
- Part Number Nomenclature

Datasheet

!

! Download Datasheet

SN54HC14, SN74HC14 (Rev. E) (sn74hc14.pdf, 520 KB)
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	SN54HC14	SN74HC14
Voltage Nodes(V)	6, 5, 2	6, 5, 2
No. of Gates	6	6
Vcc range(V)	2.0 to 6.0	2.0 to 6.0
Input Level	CMOS	CMOS
Output Level	CMOS	CMOS
Output Drive(mA)		-4/4
tpd max(ns)		26
Static Current		0.002
	Samples	Samples
	Inventory	Inventory

!

Product Information

Features [Save this to your personal library](#)

- Wide Operating Voltage Range of 2 V to 6 V
- Outputs Can Drive Up to 10 LSTTL Loads
- Low Power Consumption, 20-µA Max I_{CC}
- Typical t_{pd} = 11 ns
- ±4-mA Output Drive at 5 V
- Low Input Current of 1 µA Max

Description

These Schmitt-trigger devices contain six independent inverters. They perform the Boolean function Y = A\ in positive logic.

Pricing/Packaging/CAD Design Tools/Samples

				Price	Packaging			CAD Design Tools	Samples
Device	Status	Replaced By	Temp (°C)	Budget Price (\$US) QTY	Industry Standard (TI Pkg) Pins	Top Side Marking	Standard Pack Quantity	Footprints	Samples
SN74HC14D	ACTIVE		-40 to 85	0.15 1KU	SOIC (D) 14	View	50	<input type="checkbox"/>	Purchase Samples
SN74HC14DBR	ACTIVE		-40 to 85	0.15 1KU	SSOP (DB) 14	View	2000	<input type="checkbox"/>	Purchase Samples
SN74HC14DBRE4	ACTIVE		-40 to 85	0.15 1KU	SSOP (DB) 14	View	2000	<input type="checkbox"/>	Purchase Samples
SN74HC14DE4	ACTIVE		-40 to 85	0.15 1KU	SOIC (D) 14	View	50	<input type="checkbox"/>	Purchase Samples
SN74HC14DG4	ACTIVE		-40 to 85	0.17 1KU	SOIC (D) 14	View	50	<input type="checkbox"/>	Purchase Samples
SN74HC14DR	ACTIVE		-40 to 85	0.15 1KU	SOIC (D) 14	View	2500	<input type="checkbox"/>	Contact TI Distributor or Sales Office
SN74HC14DRE4	ACTIVE		-40 to 85	0.15 1KU	SOIC (D) 14	View	2500	<input type="checkbox"/>	Request Free Samples
SN74HC14DRG4	ACTIVE		-40 to 85	0.18 1KU	SOIC (D) 14	View	2500	<input type="checkbox"/>	Purchase Samples
SN74HC14DT	ACTIVE		-40 to 85	0.29 1KU	SOIC (D) 14	View	250	<input type="checkbox"/>	Purchase Samples
SN74HC14DTE4	ACTIVE		-40 to 85	0.29 1KU	SOIC (D) 14	View	250	<input type="checkbox"/>	Purchase Samples
SN74HC14N	ACTIVE		-40 to 85	0.23 1KU	PDIP (N) 14	View	25	<input type="checkbox"/>	Contact TI Distributor or Sales Office
SN74HC14N3	OBSOLETE		-40 to 85		PDIP (N) 14	View		<input type="checkbox"/>	Not Available
SN74HC14NE4	ACTIVE		-40 to 85	0.23 1KU	PDIP (N) 14	View	25	<input type="checkbox"/>	Request Free Samples
SN74HC14NSLE	OBSOLETE	SN74HC14NSR	-40 to 85		SO (NS) 14	View		<input type="checkbox"/>	Replaced by SN74HC14NSR
SN74HC14NSR	ACTIVE		-40 to 85	0.15 1KU	SO (NS) 14	View	2000	<input type="checkbox"/>	Contact TI Distributor or Sales Office
SN74HC14NSRE4	ACTIVE		-40 to 85	0.15 1KU	SO (NS) 14	View	2000	<input type="checkbox"/>	Purchase Samples
SN74HC14NSRG4	ACTIVE		-40 to 85	0.18 1KU	SO (NS) 14	View	2000	<input type="checkbox"/>	Purchase Samples
SN74HC14PW	ACTIVE		-40 to 85	0.15 1KU	TSSOP (PW) 14	View	90	<input type="checkbox"/>	Purchase Samples
SN74HC14PWE4	ACTIVE		-40 to 85	0.15 1KU	TSSOP (PW) 14	View	90	<input type="checkbox"/>	Purchase Samples
SN74HC14PWG4	ACTIVE		-40 to 85	0.18 1KU	TSSOP (PW) 14	View	90	<input type="checkbox"/>	Purchase Samples
SN74HC14PWLE	OBSOLETE	SN74HC14PWR	-40 to 85		TSSOP (PW) 14	View		<input type="checkbox"/>	Replaced by SN74HC14PWR
SN74HC14PWR	ACTIVE		-40 to 85	0.15 1KU	TSSOP (PW) 14	View	2000	<input type="checkbox"/>	Contact TI Distributor or Sales Office
SN74HC14PWRE4	ACTIVE		-40 to 85	0.15 1KU	TSSOP (PW) 14	View	2000	<input type="checkbox"/>	Purchase Samples
SN74HC14PWRG4	ACTIVE		-40 to 85	0.18 1KU	TSSOP (PW) 14	View	2000	<input type="checkbox"/>	Purchase Samples
SN74HC14PWT	ACTIVE		-40 to 85	0.29 1KU	TSSOP (PW) 14	View	250	<input type="checkbox"/>	Purchase Samples
SN74HC14PWTE4	ACTIVE		-40 to 85	0.48 1KU	TSSOP (PW) 14	View	250	<input type="checkbox"/>	Purchase Samples
SN74HC14PWTG4	ACTIVE		-40 to 85	0.48 1KU	TSSOP (PW) 14	View	250	<input type="checkbox"/>	Purchase Samples

Inventory

TI Inventory Status		Reported Distributor Inventory					
In Stock	In Progress QTY Date	Lead Time	Region	Company	In Stock	Purchase	
As of 9:12 AM GMT, 29 Nov 2005		As of 9:12 AM GMT, 29 Nov 2005					
1000*	3550 29 Nov >10k 5 Dec	10 Weeks	Americas	Avnet	>1k	<input type="text"/>	
				DigiKey	>1k	<input type="text"/>	
				Newark InOne	>1k	<input type="text"/>	
			Asia	P&S	4	<input type="text"/>	
			Europe	Arrow Northern Europe	>1k	<input type="text"/>	
				Arrow Southern Europe	>1k	<input type="text"/>	
				Avnet-SILICA	>1k	<input type="text"/>	
				EBV Elektronik	>1k	<input type="text"/>	
				Rutronik	>1k	<input type="text"/>	
				Spoerle	>1k	<input type="text"/>	
As of 9:12 AM GMT, 29 Nov 2005		As of 9:12 AM GMT, 29 Nov 2005					
0*	837 9 Feb >10k 16 Feb	11 Weeks	Europe	EBV Elektronik	>1k	<input type="text"/>	
				Spoerle	>1k	<input type="text"/>	
As of 9:12 AM GMT, 29 Nov 2005		As of 9:12 AM GMT, 29 Nov 2005					
0*	837 9 Feb >10k 16 Feb	11 Weeks	None Reported View Distributors				
As of 9:12 AM GMT, 29 Nov 2005		As of 9:12 AM GMT, 29 Nov 2005					
1000*	3550 29 Nov >10k 5 Dec	10 Weeks	None Reported View Distributors				
As of 9:12 AM GMT, 29 Nov 2005		As of 9:12 AM GMT, 29 Nov 2005					
0*	>10k 30 Jan	10 Weeks	None Reported View Distributors				
As of 9:12 AM GMT, 29 Nov 2005		As of 9:12 AM GMT, 29 Nov 2005					
0*	>10k 8 May	22 Weeks	Americas	Avnet	>1k	<input type="text"/>	
				DigiKey	>1k	<input type="text"/>	
			Asia	P&S	1	<input type="text"/>	
			Europe	Abacus Polar	>1k	<input type="text"/>	
				Arrow Northern Europe	>1k	<input type="text"/>	
				Arrow Southern Europe	>1k	<input type="text"/>	
				Avnet-SILICA	>1k	<input type="text"/>	
				EBV Elektronik	>1k	<input type="text"/>	
				Rutronik	>1k	<input type="text"/>	
				Spoerle	>1k	<input type="text"/>	
As of 9:12 AM GMT, 29 Nov 2005		As of 9:12 AM GMT, 29 Nov 2005					

View all Distributors

Choose a Region



	In Stock	In Progress QTY Date	Lead Time	Region	Company	In Stock	Purchase
	0*	>10k 8 May	22 Weeks	None Reported	View Distributors		
SN74HC14DRG4	As of 9:12 AM GMT, 29 Nov 2005			As of 9:12 AM GMT, 29 Nov 2005			
	In Stock	In Progress QTY Date	Lead Time	Region	Company	In Stock	Purchase
	0*	>10k 6 Mar	14 Weeks	Americas	Arrow	>1k	<input type="text"/>
SN74HC14DT	As of 9:12 AM GMT, 29 Nov 2005			As of 9:12 AM GMT, 29 Nov 2005			
	In Stock	In Progress QTY Date	Lead Time	Region	Company	In Stock	Purchase
	0*	>10k 6 Mar	14 Weeks	None Reported	View Distributors		
SN74HC14DTE4	As of 9:12 AM GMT, 29 Nov 2005			As of 9:12 AM GMT, 29 Nov 2005			
	In Stock	In Progress QTY Date	Lead Time	Region	Company	In Stock	Purchase
	0*	>10k 6 Mar	14 Weeks	None Reported	View Distributors		
SN74HC14N	As of 9:12 AM GMT, 29 Nov 2005			As of 9:12 AM GMT, 29 Nov 2005			
	In Stock	In Progress QTY Date	Lead Time	Region	Company	In Stock	Purchase
	>10k*	>10k 23 Jan	10 Weeks	Americas	Avnet	>1k	<input type="text"/>
					DigiKey	>1k	<input type="text"/>
					Newark InOne	>1k	<input type="text"/>
				Europe	Abacus Polar	>1k	<input type="text"/>
					Arrow Northern Europe	990	<input type="text"/>
					Arrow Southern Europe	>1k	<input type="text"/>
					Avnet-SILICA	>1k	<input type="text"/>
					EBV Elektronik	>1k	<input type="text"/>
					Rutronik	>1k	<input type="text"/>
					Spoerle	>1k	<input type="text"/>
SN74HC14NE4					As of 9:12 AM GMT, 29 Nov 2005		
	In Stock	In Progress QTY Date	Lead Time	Region	Company	In Stock	Purchase
	>10k*	>10k 23 Jan	10 Weeks	None Reported	View Distributors		
SN74HC14NSR	As of 9:12 AM GMT, 29 Nov 2005			As of 9:12 AM GMT, 29 Nov 2005			
	In Stock	In Progress QTY Date	Lead Time	Region	Company	In Stock	Purchase
	0*		28 Weeks	Americas	DigiKey	>1k	<input type="text"/>
					Newark InOne	>1k	<input type="text"/>
SN74HC14NSRE4	As of 9:12 AM GMT, 29 Nov 2005			As of 9:12 AM GMT, 29 Nov 2005			
	In Stock	In Progress QTY Date	Lead Time	Region	Company	In Stock	Purchase
	0*	264 13 Jan	12 Weeks	None Reported	View Distributors		
		625 20 Jan					
		968 27 Jan					
		1955 17 Feb					
		606 24 Feb					
SN74HC14NSRG4	As of 9:12 AM GMT, 29 Nov 2005			As of 9:12 AM GMT, 29 Nov 2005			
	In Stock	In Progress QTY Date	Lead Time	Region	Company	In Stock	Purchase

	0*	265 16 Jan	12 Weeks	None Reported View Distributors			
		630 23 Jan					
		974 30 Jan					
		1969 20 Feb					
		610 27 Feb					
SN74HC14PW	As of 9:12 AM GMT, 29 Nov 2005			As of 9:12 AM GMT, 29 Nov 2005			
	In Stock	In Progress QTY Date	Lead Time	Region	Company	In Stock	Purchase
	0*		16 Weeks	None Reported View Distributors			
SN74HC14PWE4	As of 9:12 AM GMT, 29 Nov 2005			As of 9:12 AM GMT, 29 Nov 2005			
	In Stock	In Progress QTY Date	Lead Time	Region	Company	In Stock	Purchase
	0*	>10k 3 Apr	16 Weeks	None Reported View Distributors			
SN74HC14PWG4	As of 9:12 AM GMT, 29 Nov 2005			As of 9:12 AM GMT, 29 Nov 2005			
	In Stock	In Progress QTY Date	Lead Time	Region	Company	In Stock	Purchase
	0*	>10k 3 Apr	16 Weeks	None Reported View Distributors			
SN74HC14PWR	As of 9:12 AM GMT, 29 Nov 2005			As of 9:12 AM GMT, 29 Nov 2005			
	In Stock	In Progress QTY Date	Lead Time	Region	Company	In Stock	Purchase
	0*		16 Weeks	Europe	EBV Elektronik	>1k	<input type="text"/>
					Rutronik	>1k	<input type="text"/>
SN74HC14PWRE4	As of 9:12 AM GMT, 29 Nov 2005			As of 9:12 AM GMT, 29 Nov 2005			
	In Stock	In Progress QTY Date	Lead Time	Region	Company	In Stock	Purchase
	0*	>10k 3 Apr	16 Weeks	None Reported View Distributors			
SN74HC14PWRG4	As of 9:12 AM GMT, 29 Nov 2005			As of 9:12 AM GMT, 29 Nov 2005			
	In Stock	In Progress QTY Date	Lead Time	Region	Company	In Stock	Purchase
	0*	>10k 3 Apr	16 Weeks	None Reported View Distributors			
SN74HC14PWT	As of 9:12 AM GMT, 29 Nov 2005			As of 9:12 AM GMT, 29 Nov 2005			
	In Stock	In Progress QTY Date	Lead Time	Region	Company	In Stock	Purchase
	0*		16 Weeks	None Reported View Distributors			
SN74HC14PWTE4	As of 9:12 AM GMT, 29 Nov 2005			As of 9:12 AM GMT, 29 Nov 2005			
	In Stock	In Progress QTY Date	Lead Time	Region	Company	In Stock	Purchase
	0*	>10k 3 Apr	16 Weeks	None Reported View Distributors			
SN74HC14PWTG4	As of 9:12 AM GMT, 29 Nov 2005			As of 9:12 AM GMT, 29 Nov 2005			
	In Stock	In Progress QTY Date	Lead Time	Region	Company	In Stock	Purchase
	0*	>10k 3 Apr	16 Weeks	None Reported View Distributors			

* Our information is updated daily, so please check back with us soon if this does not meet your needs. You may also contact your [TI Authorized Distributor](#), including those [listed above](#), for real time stock information.

** Lead time information is not available at this time. However, our information is updated daily so please check back with us soon. Please contact your preferred [TI Authorized Distributor](#) for additional information.

Quality & Lead (Pb)-Free Data

Device	Eco Plan*	Product Content			MTBF/FIT Rate	
		Lead/Ball Finish	MSL Rating/Peak Reflow	Details	Details	
SN74HC14D <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14DBR <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14DBRE4 <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14DE4 <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14DG4 <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14DR <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14DRE4 <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14DRG4 <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14DT <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14DTE4 <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14N <input type="checkbox"/>	Pb-Free (RoHS)	CU NIPDAU	Level-NC-NC-NC	View	View	
SN74HC14NE4 <input type="checkbox"/>	Pb-Free (RoHS)	CU NIPDAU	Level-NC-NC-NC	View	View	
SN74HC14NSR <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14NSRE4 <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14NSRG4 <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14PW <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14PWE4 <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14PWG4 <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14PWR <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14PWRE4 <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14PWRG4 <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14PWT <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14PWTE4 <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	
SN74HC14PWTG4 <input type="checkbox"/>	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	View	View	

* The planned eco-friendly classification: Pb-Free (RoHS) or Green (RoHS & no Sb/Br) - please click on the Product Content Details "View" link in the table above for the latest availability information and additional product content details.

If the information you are requesting is not available online at this time, contact one of our [Product Information Centers](#) regarding the availability of this information.

Technical Documents

Datasheets	Keep track of what's new
SN54HC14, SN74HC14 (Rev. E) (sn74hc14.pdf, 520 KB) 09 Nov 2004 Download	
Application Notes	
Semiconductor Packing Material Electrostatic Discharge (ESD) Protection (szza047.htm, 9 KB) 08 Jul 2004 Abstract	
Shelf-Life Evaluation of Lead-Free Component Finishes (szza046.htm, 9 KB) 24 May 2004 Abstract	
Understanding and Interpreting Standard-Logic Data Sheets (Rev. B) (szza036b.htm, 8 KB) 28 May 2003 Abstract	
TI IBIS File Creation, Validation, and Distribution Processes (szza034.htm, 9 KB) 29 Aug 2002 Abstract	
Selecting the Right Texas Instruments Signal Switch (szza030.htm, 9 KB) 07 Sep 2001 Abstract	
Implications of Slow or Floating CMOS Inputs (Rev. C) (scba004c.htm, 9 KB) 01 Feb 1998 Abstract	
CMOS Power Consumption and CPD Calculation (Rev. B) (scaa035b.htm, 9 KB) 01 Jun 1997 Abstract	
Designing With Logic (Rev. C) (sdya009c.htm, 9 KB) 01 Jun 1997 Abstract	
Live Insertion (sdya012.htm, 9 KB) 01 Oct 1996 Abstract	
Input and Output Characteristics of Digital Integrated Circuits (sdya010.htm, 9 KB) 01 Oct 1996 Abstract	
SN54/74HCT CMOS Logic Family Applications and Restrictions (scla011.htm, 9 KB) 01 May 1996 Abstract	

Using High Speed CMOS and Advanced CMOS in Systems With Multiple Vcc (scla008.htm, 9 KB)

01 Apr 1996 [Abstract](#)

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Signal Switch Data Book (Rev. A) (scdd003a.pdf, 19732 KB)

14 Nov 2003 [Download](#)

LOGIC Pocket Data Book (scyd013.pdf, 4835 KB)

05 Dec 2002 [Download](#)

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Logic Selection Guide 2005 (Rev. X) (sdyu001x.pdf, 6909 KB)

15 Mar 2005 [Download](#)

Military Semiconductors Selection Guide 2004-2005 (Rev. D) (sgyc003d.pdf, 964 KB)

10 Aug 2004 [Download](#)

SN74HC4851/HC4852 Product Clip (Rev. B) (scyb019b.pdf, 501 KB)

11 May 2004 [Download](#)

Logic Cross-Reference (Rev. A) (scyb017a.pdf, 2938 KB)

07 Oct 2003 [Download](#)

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