Typical  $t_{pd} = 14 \text{ ns}$ 

±6-mA Output Drive at 5 V

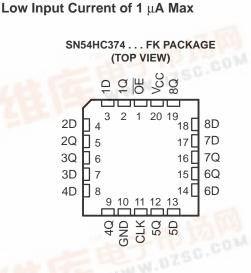
Low Power Consumption, 80-µA Max ICC

SCLS141E - DECEMBER 1982 - REVISED AUGUST 2003

- <u>询"SN54HC374-SP"供应商</u>
  - Wide Operating Voltage Range of 2 V to 6 V
- High-Current 3-State True Outputs Can Drive Up To 15 LSTTL Loads
- Eight D-Type Flip-Flops in a Single Package
- Full Parallel Access for Loading

#### SN54HC374 ... J OR W PACKAGE SN74HC374 ... DB, DW, N, NS, OR PW PACKAGE (TOP VIEW)

			-	
OE [	1	U <sub>20</sub>		
1Q [	2	19	9 8 Q	
1D [	3	18	P .	
2D [	4	17	7D	
2Q [	5		5 7Q	
3Q [	6	15	6Q	
3D [	7	14	1 6D	
4D [	8	13	3 <b>]</b> 5D	
4Q [	9	12	2 ] 5Q	
GND [	10	11	] CLK	



## description/ordering information

These 8-bit flip-flops 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 flip-flops of the 'HC374 devices are edge-triggered D-type flip-flops. On the positive transition of the clock (CLK) input, the Q outputs are set to the logic levels that were set up at the data (D) inputs.

An output-enable  $(\overline{OE})$  input places 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.

TA	PACK	AGET	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	PDIP – N	Tube of 20	SN74HC374N	SN74HC374N
	0010 014	Tube of 25	SN74HC374DW	110074
	SOIC – DW	Reel of 2000	SN74HC374DWR	HC374
–40°C to 85°C	SOP – NS	Reel of 2000	SN74HC374NSR	HC374
	SSOP – DB	Reel of 2000	SN74HC374DBR	HC374
	7000D DW/	Tube of 2000	SN74HC374PWR	110074
	TSSOP – PW	Reel of 250	SN74HC374PWT	HC374
	CDIP – J	Tube of 20	SNJ54HC374J	SNJ54HC374J
–55°C to 125°C	CFP – W	Tube of 85	SNJ54HC374W	SNJ54HC374W
	LCCC - FK	Tube of 55	SNJ54HC374FK	SNJ54HC374FK

## **ORDERING INFORMATION**

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



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Copyright © 2003, Texas Instruments Incorporated 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.

### SN54HC374, SN74HC374 OCTAL EDGE-TRIGGERED D-TYPE FLIP-FLOPS WITH 3-STATE OUTPUTS SCLS22 HGT MORE MEDICINE ST 2003

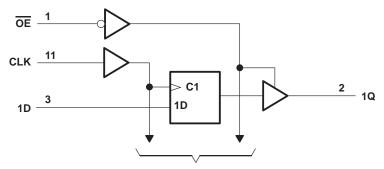
#### description/ordering information (continued)

OE does not affect the 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.

To ensure the high-impedance state during power up or power down,  $\overline{OE}$  should be tied to V<sub>CC</sub> 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	Q										
L	$\uparrow$	Н										
L	$\uparrow$	L	L									
L	H or L	Х	Q <sub>0</sub>									
Н	Х	Х	Z									

## logic diagram (positive logic)



**To Seven Other Channels** 

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

1	<ul> <li>Note 1)</li> <li>(see Note 1)</li> <li>DB package</li> <li>DW package</li> <li>N package</li> </ul>	±20 mA ±20 mA ±35 mA ±70 mA 70°C/W 58°C/W 69°C/W
1	NS package	60°C/W
Storage temperature range, T <sub>stg</sub>	6	35°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. 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.



### 查询"SN54HC374-SP"供应商

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#### recommended operating conditions (see Note 3)

			SI	154HC37	74	SN	SN74HC374		
			MIN	NOM	MAX	MIN	NOM	MAX	UNIT
VCC	Supply voltage		2	5	6	2	5	6	V
		$V_{CC} = 2 V$	1.5			1.5			
VIH	High-level input voltage	$V_{CC} = 4.5 V$	3.15			3.15			V
		$V_{CC} = 6 V$	4.2			4.2			
		$V_{CC} = 2 V$			0.5			0.5	
VIL	Low-level input voltage	$V_{CC} = 4.5 V$			1.35			1.35	V
		ACC = $6$ $A$			1.8			1.8	
VI	Input voltage		0		VCC	0		VCC	V
VO	Output voltage		0		VCC	0		VCC	V
		$V_{CC} = 2 V$			1000			1000	
$\Delta t / \Delta v$	Input transition rise/fall time	$V_{CC} = 4.5 V$			500			500	ns
		V <sub>CC</sub> = 6 V			400			400	
TA	Operating free-air temperature	• •	-55		125	-40		85	°C

NOTE 3: All unused inputs of the device must be held at VCC 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)

				Т	A = 25°C	;	SN54H	IC374	SN74H	C374	
PARAMETER	TEST CO	ONDITIONS	VCC	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
			2 V	1.9	1.998		1.9		1.9		
		l <sub>OH</sub> = -20 μA	4.5 V	4.4	4.499		4.4		4.4		
VOH	$V_I = V_{IH} \text{ or } V_{IL}$		6 V	5.9	5.999		5.9		5.9		V
		$I_{OH} = -6 \text{ mA}$	4.5 V	3.98	4.3		3.7		3.84		
		I <sub>OH</sub> = -7.8 mA	6 V	5.48	5.8		5.2		5.34		
			2 V		0.002	0.1		0.1		0.1	
		l <sub>OL</sub> = 20 μA	4.5 V		0.001	0.1		0.1		0.1	
V <sub>OL</sub>	$V_I = V_{IH} \text{ or } V_{IL}$		6 V		0.001	0.1		0.1		0.1	V
		$I_{OL} = 6 \text{ mA}$	4.5 V		0.17	0.26		0.4		0.33	
		I <sub>OL</sub> = 7.8 mA	6 V		0.15	0.26		0.4		0.33	
lı	$V_{I} = V_{CC} \text{ or } 0$		6 V		±0.1	±100		±1000		±1000	nA
IOZ	AO = ACC  or  0		6 V		±0.01	±0.5		±10		±5	μΑ
ICC	$V_I = V_{CC} \text{ or } 0,$	IO = 0	6 V			8		160		80	μΑ
Ci			2 V to 6 V		3	10		10		10	pF



timing requirements over recommended operating free-air temperature range (unless otherwise noted)

			T <sub>A</sub> = 2	25°C	SN54H	IC374	SN74H	IC374	
		VCC	MIN	MAX	MIN	MAX	MIN	MAX	UNIT
		2 V		6		4		5	
fclock	Clock frequency	4.5 V		30		20		24	MHz
		6 V		35		24		28	
		2 V	80		120		100		
tw	Pulse duration, CLK high or low	4.5 V	16		24		20		ns
		6 V	14		20		17		
		2 V	100		150		125		
<sup>t</sup> su	Setup time, data before CLK↑	4.5 V	20		30		25		ns
		6 V	17		25		21		
		2 V	10		13		12		
<sup>t</sup> h	Hold time, data after CLK <sup>↑</sup>	4.5 V	5		5		5		ns
		6 V	5		5		5		

# switching characteristics over recommended operating free-air temperature range, $C_L = 50 \text{ pF}$ (unless otherwise noted) (see Figure 1)

	FROM	то		Т	ן = 25°C	;	SN54H	C374	SN74H	IC374	
PARAMETER	(INPUT)	(OUTPUT)	VCC	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
			2 V	6	12		4		5		
fmax			4.5 V	30	60		20		24		MHz
			6 V	35	70		24		28		
			2 V		63	180		270		225	
<sup>t</sup> pd	CLK	Any Q	4.5 V		17	36		54		45	ns
			6 V		15	31		46		38	
			2 V		60	150		225		190	
ten	OE	Any Q	4.5 V		16	30		45		38	ns
			6 V		14	26		38		32	
			2 V		36	150		225		190	
<sup>t</sup> dis	OE	Any Q	4.5 V		17	30		45		38	ns
			6 V		16	26		38		32	
			2 V		28	60		90		75	
tt		Any Q	4.5 V		8	12		18		15	ns
			6 V		6	10		15		13	



### 查询"SN54HC374-SP"供应商

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# switching characteristics over recommended operating free-air temperature range, $C_L = 150 \text{ pF}$ (unless otherwise noted) (see Figure 1)

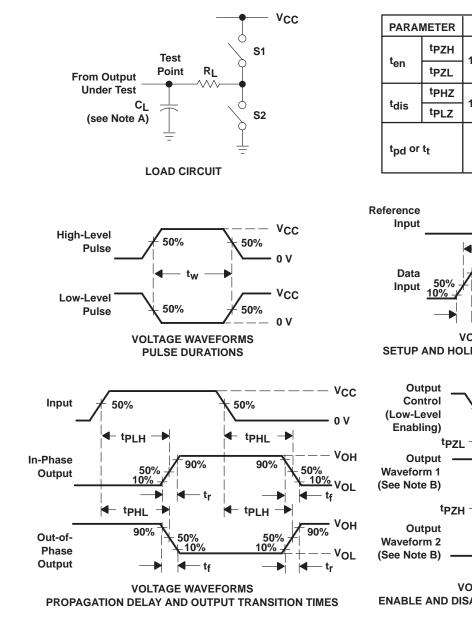
	FROM	то		Τį	λ = 25°C	;	SN54H	IC374	SN74H	IC374	
PARAMETER	(INPUT)	(OUTPUT)	VCC	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
			2 V	6	12				5		
fmax			4.5 V	30	60				24		MHz
			6 V	35	70				28		
			2 V		80	230		345		290	
<sup>t</sup> pd	CLK	Any Q	4.5 V		22	46		69		58	ns
·			6 V		19	39		58		49	
			2 V		70	200		300		250	
<sup>t</sup> en	OE	Any Q	4.5 V		25	40		60		50	ns
			6 V		22	34		51		43	
			2 V		45	210		315		265	
tt		Any Q	4.5 V		17	42		63		53	ns
			6 V		13	36		53		45	

## operating characteristics, $T_A = 25^{\circ}C$

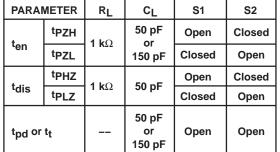
	PARAMETER	TEST CONDITIONS	TYP	UNIT
Cpd	Power dissipation capacitance per flip-flop	No load	100	pF

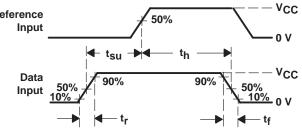


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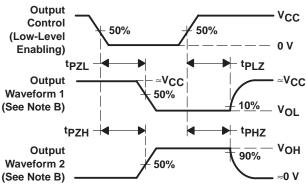


## PARAMETER MEASUREMENT INFORMATION



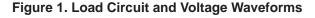


VOLTAGE WAVEFORMS SETUP AND HOLD AND INPUT RISE AND FALL TIMES



#### VOLTAGE WAVEFORMS ENABLE AND DISABLE TIMES FOR 3-STATE OUTPUTS

- NOTES: A. CL includes probe and test-fixture 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. Phase relationships between waveforms were chosen arbitrarily. All input pulses are supplied by generators having the following characteristics: PRR  $\leq$  1 MHz, Z<sub>O</sub> = 50  $\Omega$ , t<sub>f</sub> = 6 ns, t<sub>f</sub> = 6 ns.
  - D. For clock inputs,  $f_{\mbox{max}}$  is measured when the input duty cycle is 50%.
  - E. The outputs are measured one at a time with one input transition per measurement.
  - F.  $t_{PLZ}$  and  $t_{PHZ}$  are the same as  $t_{dis}$ .
  - G. tPZL and tPZH are the same as ten.
  - H.  $t_{PLH}$  and  $t_{PHL}$  are the same as  $t_{pd}$ .





15-Oct-2009

## **PACKAGING INFORMATION**

Orderable Device	Status <sup>(1)</sup>	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan <sup>(2)</sup>	Lead/Ball Finish	MSL Peak Temp <sup>(3)</sup>
5962-8407101VRA	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type
5962-8407101VSA	ACTIVE	CFP	W	20	1	TBD	Call TI	N / A for Pkg Type
84071012A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type
8407101RA	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type
8407101SA	ACTIVE	CFP	W	20	1	TBD	Call TI	N / A for Pkg Type
JM38510/65602BRA	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type
SN54HC374J	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type
SN74HC374DBR	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC374DBRE4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC374DBRG4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC374DW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC374DWE4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC374DWG4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC374DWR	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC374DWRE4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC374DWRG4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC374N	ACTIVE	PDIP	Ν	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74HC374N3	OBSOLETE	PDIP	Ν	20		TBD	Call TI	Call TI
SN74HC374NE4	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74HC374NSR	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC374NSRG4	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC374PWLE	OBSOLETE	TSSOP	PW	20		TBD	Call TI	Call TI
SN74HC374PWR	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC374PWRE4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC374PWRG4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC374PWT	ACTIVE	TSSOP	PW	20	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC374PWTE4	ACTIVE	TSSOP	PW	20	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC374PWTG4	ACTIVE	TSSOP	PW	20	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
	ACTIVE	LCCC	FK	20	1	TBD		N / A for Pkg Type

TRUMENTS

Orderable Device	Status <sup>(1)</sup>	Package Type	Package Drawing	Pins	Package Qty	Eco Plan <sup>(2)</sup>	Lead/Ball Finish	MSL Peak Temp <sup>(3)</sup>
SNJ54HC374J	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type
SNJ54HC374W	ACTIVE	CFP	W	20	1	TBD	Call TI	N / A for Pkg Type

<sup>(1)</sup> 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.

<sup>(2)</sup> 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.

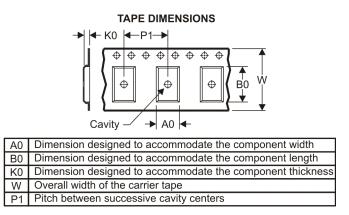
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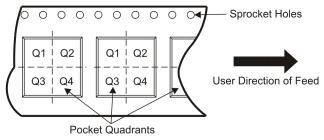
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## TAPE AND REEL INFORMATION





## QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE

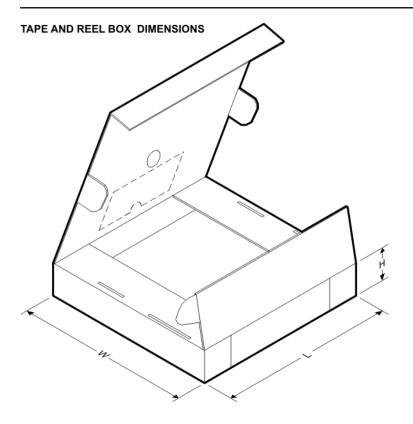


Device		Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74HC374DBR	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74HC374DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.0	2.7	12.0	24.0	Q1
SN74HC374NSR	SO	NS	20	2000	330.0	24.4	8.2	13.0	2.5	12.0	24.0	Q1
SN74HC374PWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1
SN74HC374PWT	TSSOP	PW	20	250	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1



## PACKAGE MATERIALS INFORMATION

6-Aug-2010



\*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74HC374DBR	SSOP	DB	20	2000	346.0	346.0	33.0
SN74HC374DWR	SOIC	DW	20	2000	346.0	346.0	41.0
SN74HC374NSR	SO	NS	20	2000	346.0	346.0	41.0
SN74HC374PWR	TSSOP	PW	20	2000	346.0	346.0	33.0
SN74HC374PWT	TSSOP	PW	20	250	346.0	346.0	33.0

J (R-GDIP-T\*\*)

14 LEADS SHOWN

PINS \*\* 20 14 16 18 DIM 0.300 0.300 0.300 0.300 В Α (7,62) (7,62) (7,62) (7,62) BSC BSC BSC BSC 14 8 0.785 0.960 .840 1.060 B MAX (19,94) (21, 34)(24, 38)(26, 92)B MIN С 0.300 0.300 0.300 0.310 C MAX (7,62) (7, 62)(7,87) (7, 62)7 0.245 0.245 0.220 0.245 0.065 (1,65) C MIN (6,22) (6,22) (5, 59)(6,22) 0.045 (1,14) 0.060 (1,52) Α 0.015 (0,38) 0.200 (5,08) MAX ¥ Seating Plane ↑ 0.130 (3,30) MIN 0.026 (0,66) 0.014 (0,36) 0"-15" 0.100 (2,54) 0.014 (0,36) 0.008 (0,20) 4040083/F 03/03

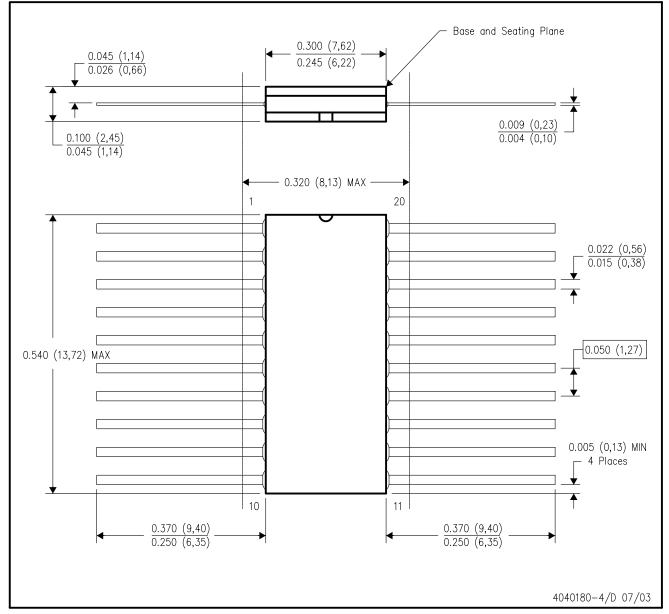
NOTES: A. All linear dimensions are in inches (millimeters).

- 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.

## CERAMIC DUAL IN-LINE PACKAGE

## W (R-GDFP-F20)

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 GDFP2-F20



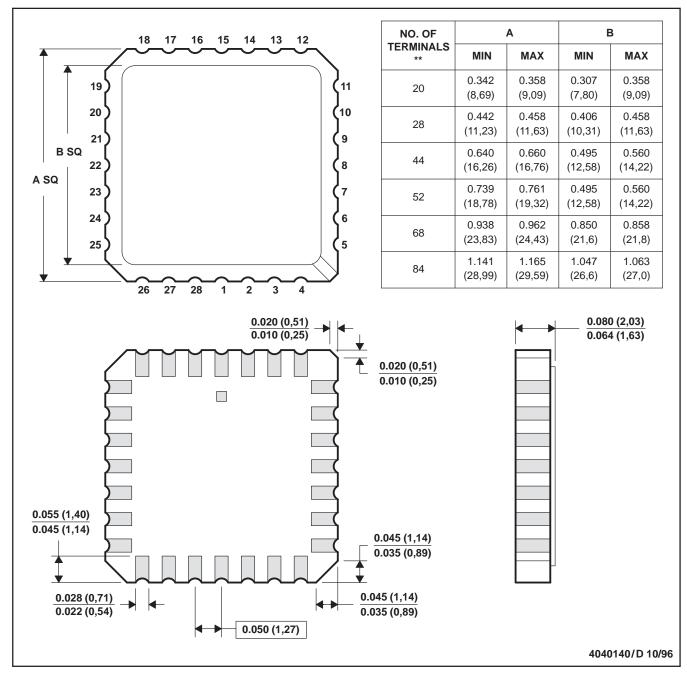
#### <u> 查询"SN54HC374-SP"供应商</u>

#### FK (S-CQCC-N\*\*)

MLCC006B - OCTOBER 1996

#### LEADLESS CERAMIC CHIP CARRIER

**28 TERMINAL SHOWN** 



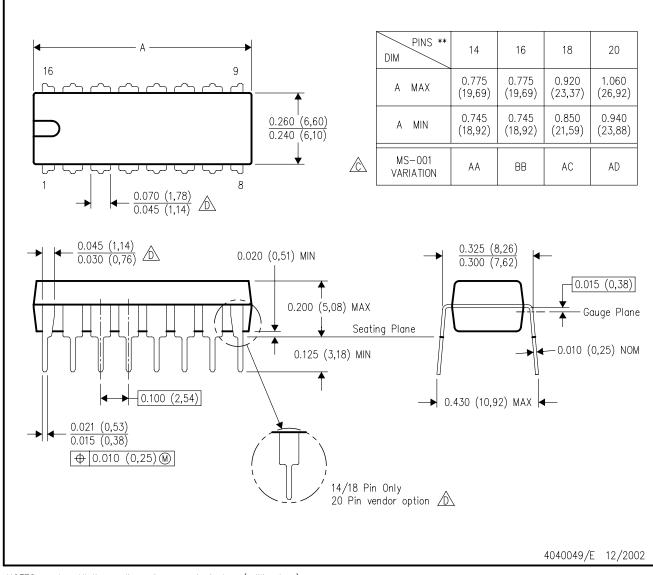
NOTES: A. All linear dimensions are in inches (millimeters).

- 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





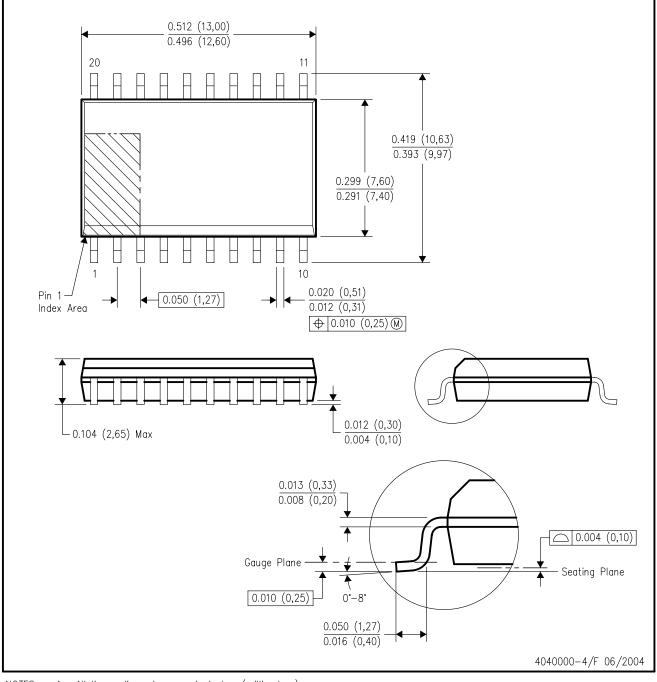
NOTES:

- 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).
- $\triangle$  The 20 pin end lead shoulder width is a vendor option, either half or full width.



## DW (R-PDSO-G20)

## 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).

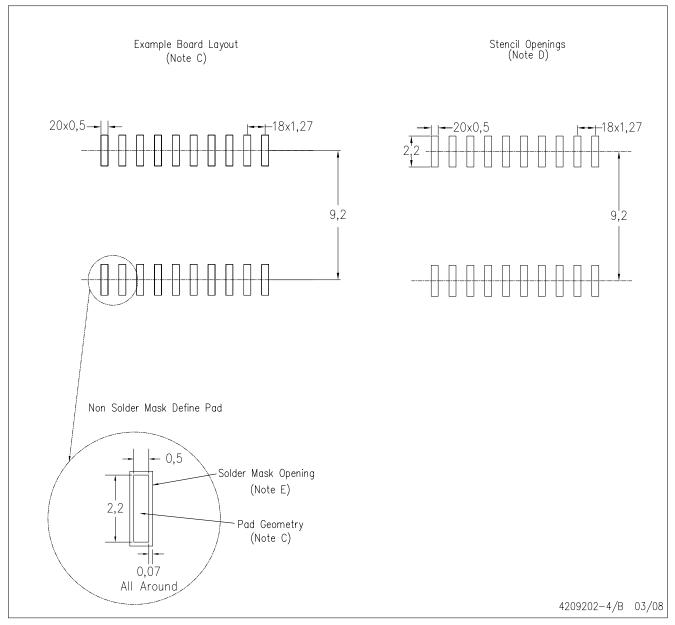
D. Falls within JEDEC MS-013 variation AC.



## LAND PATTERN

## 查询"SN54HC374-SP"供应商





NOTES:

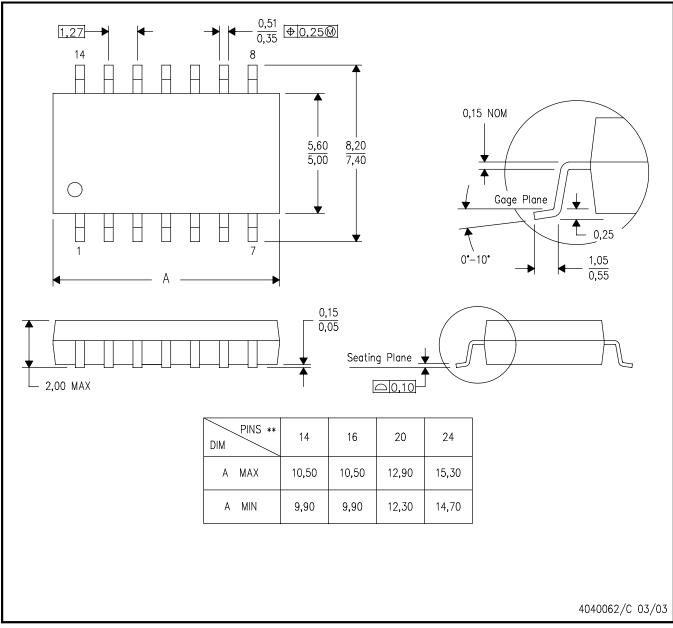
- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Customers should place a note on the circuit board fabrication drawing not to alter the center solder mask defined pad.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners 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



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.



## **MECHANICAL DATA**

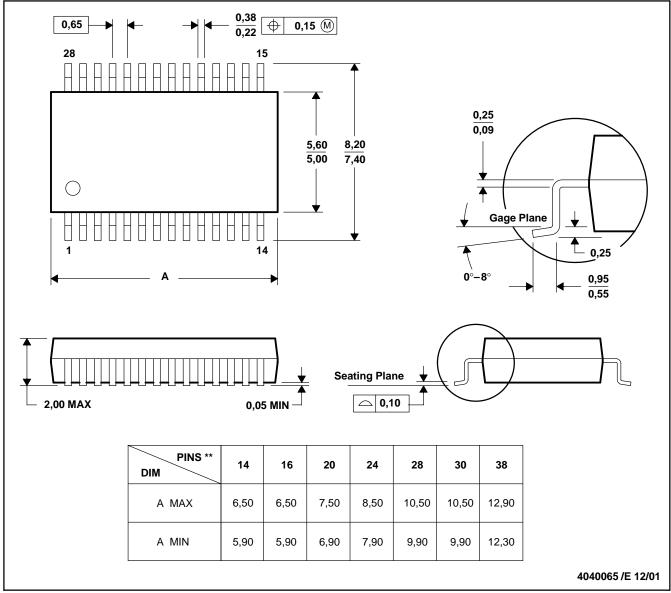
### <u>查询"SN54HC374-SP"供应商\_\_\_\_\_</u>\_\_\_\_\_

#### PLASTIC SMALL-OUTLINE

MSSO002E - JANUARY 1995 - REVISED DECEMBER 2001

# DB (R-PDSO-G\*\*)

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**

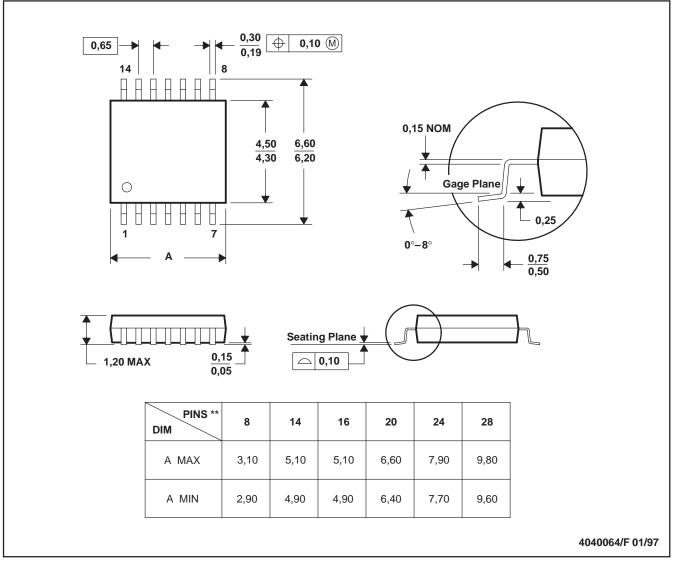
#### 查询"SN54HC374-SP"供应商

MTSS001C - JANUARY 1995 - REVISED FEBRUARY 1999

PLASTIC SMALL-OUTLINE PACKAGE

### PW (R-PDSO-G\*\*)

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.
- D. Falls within JEDEC MO-153



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