

## DESCRIPTION/ORDERING INFORMATION

The SN54LVC374A octal edge-triggered D-type flip-flop is designed for 2.7-V to 3.6-V V<sub>CC</sub> operation, and the SN74LVC374A octal edge-triggered D-type flip-flop is designed for 1.65-V to 3.6-V V<sub>CC</sub> operation.

These devices feature 3-state outputs designed specifically for driving highly capacitive or relatively low-impedance loads. These devices are particularly suitable for implementing buffer registers, input/output (I/O) ports, bidirectional bus drivers, and working registers.

On the positive transition of the clock (CLK) input, the Q outputs are set to 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 interface or pullup components.

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

Inputs can be driven from either 3.3-V or 5-V devices. This feature allows the use of these devices as translators in a mixed 3.3-V/5-V system environment.

Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas

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# **DESCRIPTION/ORDERING INFORMATION (CONTINUED)**

These devices are fully specified for partial-power-down applications using  $I_{off}$ . The  $I_{off}$  circuitry disables the outputs, preventing damaging current backflow through the devices when they are powered down.

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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.

		ONDENING		
T <sub>A</sub>	PAC	CKAGE <sup>(1)</sup>	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	PDIP – N	Tube of 20	SN74LVC374AN	SN74LVC374AN
	QFN – RGY Reel of 1000 SN74LVC374ARGYR		SN74LVC374ARGYR	LC374A
		Tube of 25	SN74LVC374ADW	1.1/00744
	SOIC – DW	Reel of 2000	SN74LVC374ADWR	LVC374A
40%C to 05%C	SOP – NS	Reel of 2000	SN74LVC374ANSR	LVC374A
-40°C to 85°C	SSOP – DB	Reel of 2000	SN74LVC374ADBR	LC374A
		Tube of 70	SN74LVC374APW	
	TSSOP – PW	Reel of 2000	SN74LVC374APWR	LC374A
		Reel of 250	SN74LVC374APWT	
	TVSOP – DGV	Reel of 2000	SN74LVC374ADGVR	LC374A
	CDIP – J	Tube of 20	SNJ54LVC374AJ	SNJ54LVC374AJ
-55°C to 125°C	CFP – W	Tube of 85	SN74LVC374ANSN74LVC374ARGYRSN74LVC374ADWSN74LVC374ADWRSN74LVC374ADSRSN74LVC374ADBRSN74LVC374APWSN74LVC374APWRSN74LVC374APWRSN74LVC374APWTSN74LVC374APWTSN74LVC374ADGVR	SNJ54LVC374AW
	LCCC – FK	Tube of 55	SNJ54LVC374AFK	SNJ54LVC374AFK

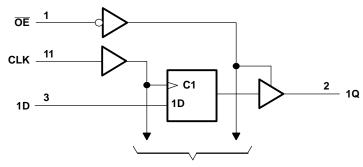
#### **ORDERING INFORMATION**

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

#### **FUNCTION TABLE (EACH FLIP-FLOP)**

	INPUTS		OUTPUT
OE	CLK	D	Q
L	$\uparrow$	Н	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** 



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#### Absolute Maximum Ratings<sup>(1)</sup>

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

			MIN	MAX	UNIT
V <sub>CC</sub>	Supply voltage range		-0.5	6.5	V
VI	Input voltage range <sup>(2)</sup>		-0.5	6.5	V
Vo	Voltage range applied to any output in the high-ir	mpedance or power-off state <sup>(2)(3)</sup>	-0.5	6.5	V
Vo	Voltage range applied to any output in the high o	r low state	-0.5	V <sub>CC</sub> + 0.5	V
I <sub>IK</sub>	Input clamp current	V <sub>1</sub> < 0		-50	mA
I <sub>OK</sub>	Output clamp current	V <sub>O</sub> < 0		-50	mA
I <sub>O</sub>	Continuous output current	· · · · · · · · · · · · · · · · · · ·		±50	mA
	Continuous current through V <sub>CC</sub> or GND			±100	mA
		DB package <sup>(4)</sup>		70	
		DGV package <sup>(4)</sup>		92	
		DW package <sup>(4)</sup>		58	
$\theta_{JA}$	Package thermal impedance	N package <sup>(4)</sup>		69	°C/W
		NS package <sup>(4)</sup>		60	
		PW package <sup>(4)</sup>		83	
		RGY package <sup>(5)</sup>		37	
T <sub>stg</sub>	Storage temperature range		-65	150	°C

(1) 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.

(2) The input negative-voltage and output voltage ratings may be exceeded if the input and output current ratings are observed.

(3) The value of  $V_{CC}$  is provided in the recommended operating conditions table.

(4) The package thermal impedance is calculated in accordance with JESD 51-7.

(5) The package thermal impedance is calculated in accordance with JESD 51-5.

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# **Recommended Operating Conditions**<sup>(1)</sup>

			SN54LVC	374A	SN74L	/C374A	
			MIN	MAX	MIN	MAX	UNIT
N/	Cumply uplicate	Operating	2	3.6	1.65	3.6	V
$V_{CC}$	Supply voltage	Data retention only	1.5		1.5		V
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$			$0.65 \times V_{CC}$		
V <sub>IH</sub>	High-level input voltage	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$			1.7		V
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	2		2		
		V <sub>CC</sub> = 1.65 V to 1.95 V				$0.35 \times V_{CC}$	
V <sub>IL</sub>	Low-level input voltage	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$				0.7	V
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$		0.8		0.8	
VI	Input voltage		0	5.5	0	5.5	V
V	Outrast unlike an	High or low state	0	V <sub>CC</sub>	0	V <sub>CC</sub>	V
Vo	Output voltage	3-state	0	5.5	0	5.5	V
		V <sub>CC</sub> = 1.65 V				-4	
		V <sub>CC</sub> = 2.3 V				-8	0
I <sub>OH</sub>	High-level output current	V <sub>CC</sub> = 2.7 V		-12		-12	mA
		$V_{CC} = 3 V$		-24		-24	
		V <sub>CC</sub> = 1.65 V				4	
		V <sub>CC</sub> = 2.3 V				8	
I <sub>OL</sub>	Low-level output current	V <sub>CC</sub> = 2.7 V		12		12	mA
		V <sub>CC</sub> = 3 V		24		24	
$\Delta t/\Delta v$	Input transition rise or fall rate			10		10	ns/V
T <sub>A</sub>	Operating free-air temperature		-55	125	-40	85	°C

(1) All unused 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.



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#### **Electrical Characteristics**

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

	TEAT CONDITIONS			SN54	LVC374A		SN74	LVC374A		
PARAMETER	TEST CONDITIONS	5	V <sub>cc</sub>	MIN	TYP <sup>(1)</sup>	MAX	MIN	TYP <sup>(1)</sup>	MAX	UNIT
	I <sub>OH</sub> = -100 μA		1.65 V to 3.6 V				$V_{CC} - 0.2$			
			2.7 V to 3.6 V	$V_{CC} - 0.2$						
V <sub>OH</sub>	$I_{OH} = -4 \text{ mA}$		1.65 V				1.2			
	I <sub>OH</sub> = -8 mA		2.3 V				1.7			V
	1 10 1		2.7 V	2.2			2.2			
	$I_{OH} = -12 \text{ mA}$		3 V	2.4			2.4			
	I <sub>OH</sub> = -24 mA		3 V	2.2			2.2			
	I <sub>OL</sub> = 100 μA		1.65 V to 3.6 V						0.2	
			2.7 V to 3.6 V			0.2				V
N	$I_{OL} = 4 \text{ mA}$		1.65 V						0.45	
V <sub>OL</sub>	I <sub>OL</sub> = 8 mA		2.3 V						0.7	
	I <sub>OL</sub> = 12 mA		2.7 V			0.4			0.4	
	I <sub>OL</sub> = 24 mA		3 V			0.55			0.55	
I <sub>I</sub>	V <sub>I</sub> = 0 to 5.5 V		3.6 V			±5			±5	μA
I <sub>off</sub>	$V_{\rm I}$ or $V_{\rm O}$ = 5.5 V		0						±10	μA
I <sub>OZ</sub>	V <sub>O</sub> = 0 to 5.5 V		3.6 V			±15			±10	μΑ
	$V_{I} = V_{CC}$ or GND		2.6.1/			10			10	
I <sub>CC</sub>	$3.6 \text{ V} \le \text{V}_{\text{I}} \le 5.5 \text{ V}^{(2)}$	l <sub>O</sub> = 0	3.6 V			10			10	μA
$\Delta I_{CC}$	$\Delta I_{CC} \qquad \begin{array}{l} \text{One input at } V_{CC} - 0.6 \text{ V}, \\ \text{Other inputs at } V_{CC} \text{ or GND} \end{array}$		2.7 V to 3.6 V			500			500	μA
Ci	$V_{I} = V_{CC}$ or GND		3.3 V		4	12		4		pF
Co	$V_0 = V_{CC}$ or GND		3.3 V		5.5	12		5.5		pF

(1) All typical values are at  $V_{CC}$  = 3.3 V,  $T_A$  = 25°C. (2) This applies in the disabled state only.

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#### **Timing Requirements**

over recommended operating free-air temperature range (unless otherwise noted) (see Figure 1)

		V <sub>CC</sub> = 2.7 V		V <sub>CC</sub> = 3.3 V ± 0.3 V		UNIT
		MIN	MAX	MIN	MAX	
f <sub>clock</sub>	Clock frequency		80		100	MHz
t <sub>w</sub>	Pulse duration, CLK high or low	3.3		3.3		ns
t <sub>su</sub>	Setup time, data before CLK1	2		2		ns
t <sub>h</sub>	Hold time, data after CLK↑	1.5		1.5		ns

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### **Timing Requirements**

over recommended operating free-air temperature range (unless otherwise noted) (see Figure 1)

					SN74L	/C374A				
		V <sub>CC</sub> = 1.8 V ± 0.15 V		V <sub>CC</sub> = 2.5 V ± 0.2 V		V <sub>CC</sub> = 2.7 V		V <sub>CC</sub> = 3.3 V ± 0.3 V		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
f <sub>clock</sub>	Clock frequency		(1)		(1)		80		100	MHz
tw	Pulse duration, CLK high or low	(1)		(1)		3.3		3.3		ns
t <sub>su</sub>	Setup time, data before CLK↑	(1)		(1)		2		2		ns
t <sub>h</sub>	Hold time, data after $CLK\uparrow$	(1)		(1)		1.5		1.5		ns

(1) This information was not available at the time of publication.

#### **Switching Characteristics**

over recommended operating free-air temperature range (unless otherwise noted) (see Figure 1)

				SN54LVC374A				
PARAMETER	FROM (INPUT)			3.3 V 3 V	UNIT			
			MIN	MAX	MIN	MAX		
f <sub>max</sub>			80		100		MHz	
t <sub>pd</sub>	CLK	Q		9.5	1	8.5	ns	
t <sub>en</sub>	ŌĒ	Q		9.5	1	8.5	ns	
t <sub>dis</sub>	ŌĒ	Q		8	1	7	ns	

#### **Switching Characteristics**

over recommended operating free-air temperature range (unless otherwise noted) (see Figure 1)

		TO (OUTPUT)	SN74LVC374A								
PARAMETER	FROM (INPUT)		V <sub>CC</sub> = 1.8 V ± 0.15 V		V <sub>CC</sub> = 2.5 V ± 0.2 V		$V_{CC} = 2.7 V$		V <sub>CC</sub> = 3.3 V ± 0.3 V		UNIT
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
f <sub>max</sub>			(1)		(1)		80		100		MHz
t <sub>pd</sub>	CLK	Q	(1)	(1)	(1)	(1)		8.1	1.5	7	ns
t <sub>en</sub>	OE	Q	(1)	(1)	(1)	(1)		8.5	1.5	7.5	ns
t <sub>dis</sub>	ŌĒ	Q	(1)	(1)	(1)	(1)		7.1	1.5	6.5	ns
t <sub>sk(o)</sub>										1	ns

(1) This information was not available at the time of publication.



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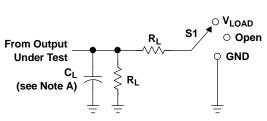
# **Operating Characteristics**

 $T_A = 25^{\circ}C$ 

PARAMETER		TEST CONDITIONS	V <sub>CC</sub> = 1.8 V TYP	V <sub>CC</sub> = 2.5 V TYP	V <sub>CC</sub> = 3.3 V TYP	UNIT
	Outputs enabled	f 10 MU	(1)	(1)	54.5	۲
per flip-flop	Outputs disabled	f = 10 MHz	(1)	(1)	13.5	pF

(1) This information was not available at the time of publication.

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TEST	S1
t <sub>PLH</sub> /t <sub>PHL</sub>	Open
t <sub>PLZ</sub> /t <sub>PZL</sub>	V <sub>LOAD</sub>
t <sub>PHZ</sub> /t <sub>PZH</sub>	GND

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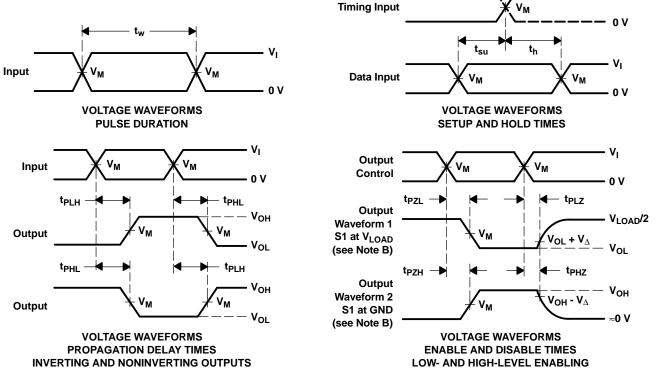
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LOAD CIRCUIT

	INPUTS		N	V	•	-	
V <sub>CC</sub>	VI	t <sub>r</sub> /t <sub>f</sub>	V <sub>M</sub>	V <sub>LOAD</sub>	CL	RL	$V_{\Delta}$
$\textbf{1.8 V} \pm \textbf{0.15 V}$	V <sub>CC</sub>	≤2 ns	V <sub>CC</sub> /2	$2 \times V_{CC}$	30 pF	<b>1 k</b> Ω	0.15 V
$\textbf{2.5 V} \pm \textbf{0.2 V}$	V <sub>CC</sub>	≤2 ns	V <sub>CC</sub> /2	$2 \times V_{CC}$	30 pF	<b>500</b> Ω	0.15 V
2.7 V	2.7 V	≤2.5 ns	1.5 V	6 V	50 pF	<b>500</b> Ω	0.3 V
3.3 V $\pm$ 0.3 V	2.7 V	≤2.5 ns	1.5 V	6 V	50 pF	<b>500</b> Ω	0.3 V

PARAMETER MEASUREMENT INFORMATION



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 ≤ 10 MHz, Z<sub>0</sub> = 50 Ω.
- D. The outputs are measured one at a time with one transition per measurement.
- E.  $t_{PLZ}$  and  $t_{PHZ}$  are the same as  $t_{dis}$ .
- F.  $t_{PZL}$  and  $t_{PZH}$  are the same as  $t_{en}$ .
- G.  $t_{PLH}$  and  $t_{PHL}$  are the same as  $t_{pd}$ .
- H. All parameters and waveforms are not applicable to all devices.

#### Figure 1. Load Circuit and Voltage Waveforms



# PACKAGE OPTION ADDENDUM

26-Sep-2005

### **PACKAGING INFORMATION**

5962-975740102A         ACTIVE         LCCC         FK         20         1         TBD         Call TI         Level-N2-NC-NC           5962-97574010SA         ACTIVE         CDIP         J         20         1         TBD         Call TI         Level-N2-NC-NC           5962-97574010SA         ACTIVE         CFP         W         20         1         TBD         Call TI         Level-N2-NC-NC           5962-9757401VSA         ACTIVE         CFP         W         20         1         TBD         Call TI         Level-N2-NC-NC           SN74LVC374ADBLE         OBSOLETE         SSOP         DB         20         Creen (RoHS &         CU NIPDAU         Level-1-260C-UNLIM           SN74LVC374ADBVR4         ACTIVE         SSOP         DB         20         2000         Green (RoHS &         CU NIPDAU         Level-1-260C-UNLIM           SN74LVC374ADGVR4         ACTIVE         TVSOP         DGV         20         2000         Green (RoHS &         CU NIPDAU         Level-1-260C-UNLIM           SN74LVC374ADW         ACTIVE         SOIC         DW         20         200         Green (RoHS &         CU NIPDAU         Level-1-260C-UNLIM           SN74LVC374ADWR4         ACTIVE         SOIC         DW	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>
S982-9757401QSA         ACTIVE         CFP         W         20         1         TBD         Call TI         Level-NC-NC-NC           S982-9757401VSA         ACTIVE         CDIP         J         20         1         TBD         Call TI         Level-NC-NC-NC           SN74LVC374ADBLE         OBSOLETE         SSOP         DB         20         1         TBD         Call TI         Level-NC-NC-NC           SN74LVC374ADBR         ACTIVE         SSOP         DB         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM           SN74LVC374ADBRE4         ACTIVE         SSOP         DB         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM           SN74LVC374ADGVR         ACTIVE         TVSOP         DGV         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM           SN74LVC374ADW         ACTIVE         SOIC         DW         20         25         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM           SN74LVC374ADWR4         ACTIVE         SOIC         DW         20         200         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM           SN74LVC374ADWR4         ACTIVE         SOIC         DW         20         2000	5962-9757401Q2A	ACTIVE	LCCC	FK	20	1	TBD	Call TI	Level-NC-NC-NC
5962-9757401VRA         ACTIVE         CDIP         J         20         1         TBD         Call TL         Level-NC-NC-NC           SN74LVC374ADBLE         OBSOLETE         SSOP         DB         20         1         TBD         Call TL         Level-NC-NC-NC           SN74LVC374ADBLE         OBSOLETE         SSOP         DB         20         10         TBD         Call TL         Level-NC-NC-NC           SN74LVC374ADBR         ACTIVE         SSOP         DB         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/B)           SN74LVC374ADGVRE4         ACTIVE         TVSOP         DGV         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/B)           SN74LVC374ADGVRE4         ACTIVE         TVSOP         DGV         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/B)           SN74LVC374ADW         ACTIVE         SOIC         DW         20         25         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/B)           SN74LVC374ADWR         ACTIVE         SOIC         DW         20         200         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/B)           SN74LVC374ADWRE4         ACTIVE         SOIC<	5962-9757401QRA	ACTIVE	CDIP	J	20	1	TBD	Call TI	Level-NC-NC-NC
5962-9757401VSA         ACTIVE         CFP         W         20         1         TBD         Call TI         Level-NC-NC-NC           SN74LVC374ADBR         OBSOLETE         SSOP         DB         20         TBD         Call TI         Call TI <td< td=""><td>5962-9757401QSA</td><td>ACTIVE</td><td>CFP</td><td>W</td><td>20</td><td>1</td><td>TBD</td><td>Call TI</td><td>Level-NC-NC-NC</td></td<>	5962-9757401QSA	ACTIVE	CFP	W	20	1	TBD	Call TI	Level-NC-NC-NC
SN74LVC374ADBLE         OBSOLETE         SSOP         DB         20         TBD         Call TI         Call TI           SN74LVC374ADBR         ACTIVE         SSOP         DB         20         2000         Green (RoHS & CU NIPDAU no Sb/Br)         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374ADBRE4         ACTIVE         SSOP         DB         20         2000         Green (RoHS & no Sb/Br)         CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374ADGVRE4         ACTIVE         TVSOP         DGV         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374ADW         ACTIVE         SOIC         DW         20         25         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374ADWE4         ACTIVE         SOIC         DW         20         25         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374ADWR4         ACTIVE         SOIC         DW         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374ADWR4         ACTIVE         SOIC         DW         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374ADWR44         ACTIVE	5962-9757401VRA	ACTIVE	CDIP	J	20	1	TBD	Call TI	Level-NC-NC-NC
SN74LVC374ADBR         ACTIVE         SSOP         DB         20         2000         Green (RoHS & no Sb/Br)         CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374ADBRE4         ACTIVE         SSOP         DB         20         2000         Green (RoHS & no Sb/Br)         CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374ADGVR         ACTIVE         TVSOP         DGV         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374ADGVRE4         ACTIVE         TVSOP         DGV         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374ADWE4         ACTIVE         SOIC         DW         20         25         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374ADWRE4         ACTIVE         SOIC         DW         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374ADWRE4         ACTIVE         SOIC         DW         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374ADWRE4         ACTIVE         SOIC         DW         20         200         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)	5962-9757401VSA	ACTIVE	CFP	W	20	1	TBD	Call TI	Level-NC-NC-NC
no Sb/Bi         no Sb/Bi         no Sb/Bi           SN74LVC374ADBRE4         ACTIVE         SSOP         DB         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Bi)           SN74LVC374ADGVR         ACTIVE         TVSOP         DGV         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Bi)           SN74LVC374ADGVRE4         ACTIVE         TVSOP         DGV         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Bi)           SN74LVC374ADWE4         ACTIVE         SOIC         DW         20         25         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Bi)           SN74LVC374ADWR         ACTIVE         SOIC         DW         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Bi)           SN74LVC374ADWR4         ACTIVE         SOIC         DW         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Bi)           SN74LVC374ADWR4         ACTIVE         SOIC         DW         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Bi)           SN74LVC374ANR4         ACTIVE         PDIP         N         20         Pb-Free         CU NIPDAU         Level-NC-NC-NC (RoHS) <td>SN74LVC374ADBLE</td> <td>OBSOLETE</td> <td>SSOP</td> <td>DB</td> <td>20</td> <td></td> <td>TBD</td> <td>Call TI</td> <td>Call TI</td>	SN74LVC374ADBLE	OBSOLETE	SSOP	DB	20		TBD	Call TI	Call TI
no Sb/Bi         no Sb/Bi         no Sb/Bi           SN74LVC374ADGVR         ACTIVE         TVSOP         DGV         20         2000         Green (RoHS & GU NIPDAU         Level-1-260C-UNLIM no Sb/Bi           SN74LVC374ADGVRE4         ACTIVE         TVSOP         DGV         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Bi           SN74LVC374ADW         ACTIVE         SOIC         DW         20         25         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Bi           SN74LVC374ADWE4         ACTIVE         SOIC         DW         20         25         Green (RoHS & No Sb/Bi         CU NIPDAU         Level-1-260C-UNLIM no Sb/Bi           SN74LVC374ADWRE4         ACTIVE         SOIC         DW         20         2000         Green (RoHS & No Sb/Bi         CU NIPDAU         Level-1-260C-UNLIM no Sb/Bi           SN74LVC374ADWRE4         ACTIVE         SOIC         DW         20         2000         Green (RoHS & No Sb/Bi         CU NIPDAU         Level-1-260C-UNLIM no Sb/Bi           SN74LVC374ANWRE4         ACTIVE         PDIP         N         20         200         Pb-Free (RoHS & No Sb/Bi         CU NIPDAU         Level-1-260C-UNLIM no Sb/Bi           SN74LVC374ANSR         ACTIVE         SO         NS         2	SN74LVC374ADBR	ACTIVE	SSOP	DB	20	2000		CU NIPDAU	Level-1-260C-UNLIM
In Sb/Br)         In Sb/Br)         In Sb/Br)         In Sb/Br)         In Sb/Br)           SN74LVC374ADGVRE4         ACTIVE         SOIC         DW         20         200         Green (RoHS & No Sb/Br)         CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374ADW         ACTIVE         SOIC         DW         20         25         Green (RoHS & No Sb/Br)         CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374ADWRE4         ACTIVE         SOIC         DW         20         2000         Green (RoHS & No Sb/Br)         CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374ADWRE4         ACTIVE         SOIC         DW         20         2000         Green (RoHS & No Sb/Br)         CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374ADWRE4         ACTIVE         SOIC         DW         20         200         Green (RoHS & RoHS )         CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374AN         ACTIVE         PDIP         N         20         20         Pb-Free (RoHS )         CU NIPDAU         Level-NC-NC-NC (RoHS )           SN74LVC374ANSR         ACTIVE         SO         NS         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74L	SN74LVC374ADBRE4	ACTIVE	SSOP	DB	20	2000		CU NIPDAU	Level-1-260C-UNLIM
SN74LVC374ADW         ACTIVE         SOIC         DW         20         25         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM           SN74LVC374ADWE4         ACTIVE         SOIC         DW         20         25         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM           SN74LVC374ADWR4         ACTIVE         SOIC         DW         20         200         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM           SN74LVC374ADWR44         ACTIVE         SOIC         DW         20         2000         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM           SN74LVC374ADWR44         ACTIVE         SOIC         DW         20         200         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM           SN74LVC374AN         ACTIVE         PDIP         N         20         20         Pb-Free         CU NIPDAU         Level-NC-NC-NC           SN74LVC374ANSR         ACTIVE         PDIP         N         20         20         Pb-Free         CU NIPDAU         Level-NC-NC-NC           SN74LVC374ANSR         ACTIVE         SO         NS         20         200         Green (RoHS & CU NIPDAU         Level-1-260C-UNLIM           SN74LVC374APWR         ACTIVE         TSSOP         PW         20         70	SN74LVC374ADGVR	ACTIVE	TVSOP	DGV	20	2000		CU NIPDAU	Level-1-260C-UNLIM
SN74LVC374ADWE4         ACTIVE         SOIC         DW         20         25         Green (RoHS & no Sb/Br)         CU NIPDAU         Level-1-260C-UNLIM           SN74LVC374ADWR         ACTIVE         SOIC         DW         20         2000         Green (RoHS & no Sb/Br)         CU NIPDAU         Level-1-260C-UNLIM           SN74LVC374ADWRE4         ACTIVE         SOIC         DW         20         2000         Green (RoHS & no Sb/Br)         CU NIPDAU         Level-1-260C-UNLIM           SN74LVC374ADWRE4         ACTIVE         SOIC         DW         20         200         Pb-Free (RoHS)         CU NIPDAU         Level-1-260C-UNLIM           SN74LVC374ANRE4         ACTIVE         PDIP         N         20         20         Pb-Free (RoHS)         CU NIPDAU         Level-NC-NC-NC (RoHS)           SN74LVC374ANSR         ACTIVE         SO         NS         20         2000         Green (RoHS & no Sb/Br)         CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374ANSRE4         ACTIVE         SO         NS         20         2000         Green (RoHS & no Sb/Br)         CU NIPDAU         Level-1-260C-UNLIM no Sb/Br)           SN74LVC374APWE4         ACTIVE         TSSOP         PW         20         70         Green (RoHS & no Sb/Br) <t< td=""><td>SN74LVC374ADGVRE4</td><td>ACTIVE</td><td>TVSOP</td><td>DGV</td><td>20</td><td>2000</td><td>`</td><td>CU NIPDAU</td><td>Level-1-260C-UNLIM</td></t<>	SN74LVC374ADGVRE4	ACTIVE	TVSOP	DGV	20	2000	`	CU NIPDAU	Level-1-260C-UNLIM
N74LVC374ADWRACTIVESOICDW20200Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LVC374ADWRE4ACTIVESOICDW20200Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374ANACTIVEPDIPN2020Pb-Free (RoHS)CU NIPDAULevel-NC-NC-NC (RoHS)SN74LVC374ANSRACTIVEPDIPN2020Pb-Free (RoHS)CU NIPDAULevel-NC-NC-NC (RoHS)SN74LVC374ANSRACTIVESONS20200Green (RoHS & (RoHS)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374ANSRE4ACTIVESONS202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374APWE4ACTIVETSSOPPW2070Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374APWE4ACTIVETSSOPPW2070Green (RoHS & no Sb/Br)Cul NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374APWR4ACTIVETSSOPPW2070Green (RoHS & no Sb/Br)Cul NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374APWR4ACTIVETSSOPPW202000Green (RoHS & no Sb/Br)Cul NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374APWR4ACTIVETSSOPPW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no	SN74LVC374ADW	ACTIVE	SOIC	DW	20	25		CU NIPDAU	Level-1-260C-UNLIM
N74LVC374ADWRE4ACTIVESOICDW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-NC-NC-NC (RoHS)SN74LVC374ANACTIVEPDIPN2020Pb-Free (RoHS)CU NIPDAULevel-NC-NC-NC (RoHS)SN74LVC374ANSR4ACTIVEPDIPN2020Pb-Free (RoHS)CU NIPDAULevel-NC-NC-NC (RoHS)SN74LVC374ANSR4ACTIVESONS202000Green (RoHS & (ROHS)CU NIPDAULevel-NC-NC-NC (ROHS)SN74LVC374ANSR4ACTIVESONS202000Green (ROHS & (ROHS)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374APWACTIVETSSOPPW2070Green (ROHS & (ROHS & NO Sb/Br)CU NIPDAULevel-1-260C-UNLIM (ROHS & NO Sb/Br)SN74LVC374APWE4ACTIVETSSOPPW2070Green (ROHS & (ROHS & NO Sb/Br)Cu NIPDAULevel-1-260C-UNLIM (ROHS & NO Sb/Br)SN74LVC374APWR4ACTIVETSSOPPW20TBDCall TICall TISN74LVC374APWR4ACTIVETSSOPPW202000Green (ROHS & (ROHS & NO Sb/Br)CU NIPDAULevel-1-260C-UNLIM (ROHS & NO Sb/Br)SN74LVC374APWR4ACTIVETSSOPPW202000Green (ROHS & (ROHS & NO Sb/Br)CU NIPDAULevel-1-260C-UNLIM (ROHS & NO Sb/Br)SN74LVC374APWR4ACTIVETSSOPPW202000Green (ROHS & (ROHS & (ROHS &)	SN74LVC374ADWE4	ACTIVE	SOIC	DW	20	25	,	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC374ANACTIVEPDIPN2020Pb-Free (RoHS)CU NIPDAULevel-NC-NC-NC (RoHS)SN74LVC374ANE4ACTIVEPDIPN2020Pb-Free (RoHS)CU NIPDAULevel-NC-NC-NC (RoHS)SN74LVC374ANSRACTIVESONS202000Green (RoHS & (ROHS)CU NIPDAULevel-1-260C-UNLIM (ROHS)SN74LVC374ANSRE4ACTIVESONS202000Green (RoHS & (ROHS)CU NIPDAULevel-1-260C-UNLIM (ROHS)SN74LVC374APWACTIVETSSOPPW2070Green (RoHS & (ROHS)CU NIPDAULevel-1-260C-UNLIM (ROHS)SN74LVC374APWE4ACTIVETSSOPPW2070Green (RoHS & (ROHS)CU NIPDAULevel-1-260C-UNLIM (ROHS)SN74LVC374APWR4ACTIVETSSOPPW2070Green (RoHS & (ROHS)CU NIPDAULevel-1-260C-UNLIM (ROHS)SN74LVC374APWR4ACTIVETSSOPPW202000Green (ROHS & (ROHS)CU NIPDAULevel-1-260C-UNLIM (ROHS)SN74LVC374APWR64ACTIVETSSOPPW202000Green (ROHS & (ROHS)CU NIPDAULevel-1-260C-UNLIM (ROHS)SN74LVC374APWR64ACTIVETSSOPPW202000Green (ROHS & (ROHS)CU NIPDAULevel-1-260C-UNLIM (ROSB)SN74LVC374APWR64ACTIVETSSOPPW202000Green (ROHS & (ROHS)CU NIPDAULevel-1-260C-UNLIM (ROSB)SN74LVC374APWR64AC	SN74LVC374ADWR	ACTIVE	SOIC	DW	20	2000	``	CU NIPDAU	Level-1-260C-UNLIM
Image: Normal stateNormal	SN74LVC374ADWRE4	ACTIVE	SOIC	DW	20	2000		CU NIPDAU	Level-1-260C-UNLIM
Image: NT4LVC374ANSRACTIVESONS202000Green (RoHS & DV NIPDAU no Sb/Br)Level-1-260C-UNLIM Level-1-260C-UNLIMSN74LVC374ANSRE4ACTIVESONS202000Green (RoHS & DV NIPDAU no Sb/Br)Level-1-260C-UNLIM 	SN74LVC374AN	ACTIVE	PDIP	Ν	20	20		CU NIPDAU	Level-NC-NC-NC
SN74LVC374ANSRE4ACTIVESONS202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LVC374APWACTIVETSSOPPW2070Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LVC374APWE4ACTIVETSSOPPW2070Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LVC374APWLEOBSOLETETSSOPPW2070Green (RoHS & no Sb/Br)Cu NIPDAULevel-1-260C-UNLIMSN74LVC374APWRE4ACTIVETSSOPPW20TBDCall TICall TISN74LVC374APWRE4ACTIVETSSOPPW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374APWRE4ACTIVETSSOPPW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374APWRE4ACTIVETSSOPPW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374APWTE4ACTIVETSSOPPW20200Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374APWTE4ACTIVETSSOPPW20250Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374ARWTE4ACTIVETSSOPPW20250Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374ARGYRACTIVEQFN	SN74LVC374ANE4	ACTIVE	PDIP	Ν	20	20		CU NIPDAU	Level-NC-NC-NC
SN74LVC374APWACTIVETSSOPPW2070Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374APWE4ACTIVETSSOPPW2070Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374APWLEOBSOLETETSSOPPW20TBDCall TICall TISN74LVC374APWREACTIVETSSOPPW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIMSN74LVC374APWRE4ACTIVETSSOPPW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIMSN74LVC374APWRG4ACTIVETSSOPPW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIMSN74LVC374APWTE4ACTIVETSSOPPW20200Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374APWTE4ACTIVETSSOPPW20200Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374APWTE4ACTIVETSSOPPW20250Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374ARGYRACTIVEQFNRGY201000Green (RoHS & no Sb/Br)CU NIPDAULevel-2-260C-1YEAR no Sb/Br)	SN74LVC374ANSR	ACTIVE	SO	NS	20	2000	`	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC374APWE4ACTIVETSSOPPW2070Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LVC374APWLEOBSOLETETSSOPPW20TBDCall TICall TICall TISN74LVC374APWRE4ACTIVETSSOPPW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LVC374APWRE4ACTIVETSSOPPW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LVC374APWRG4ACTIVETSSOPPW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LVC374APWTG4ACTIVETSSOPPW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LVC374APWTE4ACTIVETSSOPPW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LVC374ARGYRACTIVETSSOPPW20250Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LVC374ARGYRACTIVEQFNRGY20250Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LVC374ARGYRACTIVEQFNRGY201000Green (RoHS & no Sb/Br)CU NIPDAULevel-2-260C-1YEAR	SN74LVC374ANSRE4	ACTIVE	SO	NS	20	2000	`	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC374APWLEOBSOLETETSSOPPW20TBDCall TICall TISN74LVC374APWRACTIVETSSOPPW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LVC374APWRE4ACTIVETSSOPPW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LVC374APWRG4ACTIVETSSOPPW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LVC374APWTE4ACTIVETSSOPPW20250Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374APWTE4ACTIVETSSOPPW20250Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LVC374ARGYRACTIVEQFNRGY201000Green (RoHS & no Sb/Br)CU NIPDAULevel-2-260C-1YEAR no Sb/Br)	SN74LVC374APW	ACTIVE	TSSOP	PW	20	70	,	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC374APWRACTIVETSSOPPW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LVC374APWRE4ACTIVETSSOPPW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LVC374APWRG4ACTIVETSSOPPW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LVC374APWTG4ACTIVETSSOPPW202000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LVC374APWTACTIVETSSOPPW20250Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LVC374APWTE4ACTIVETSSOPPW20250Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LVC374ARGYRACTIVEQFNRGY201000Green (RoHS & no Sb/Br)CU NIPDAULevel-2-260C-1YEAR no Sb/Br)	SN74LVC374APWE4	ACTIVE	TSSOP	PW	20	70		CU NIPDAU	Level-1-260C-UNLIM
SN74LVC374APWRE4       ACTIVE       TSSOP       PW       20       2000       Green (RoHS & no Sb/Br)       CU NIPDAU       Level-1-260C-UNLIM         SN74LVC374APWRG4       ACTIVE       TSSOP       PW       20       2000       Green (RoHS & no Sb/Br)       CU NIPDAU       Level-1-260C-UNLIM         SN74LVC374APWRG4       ACTIVE       TSSOP       PW       20       2000       Green (RoHS & no Sb/Br)       CU NIPDAU       Level-1-260C-UNLIM         SN74LVC374APWT       ACTIVE       TSSOP       PW       20       250       Green (RoHS & CU NIPDAU       Level-1-260C-UNLIM         SN74LVC374APWTE4       ACTIVE       TSSOP       PW       20       250       Green (RoHS & CU NIPDAU       Level-1-260C-UNLIM         SN74LVC374APWTE4       ACTIVE       TSSOP       PW       20       250       Green (RoHS & CU NIPDAU       Level-1-260C-UNLIM         SN74LVC374ARGYR       ACTIVE       QFN       RGY       20       1000       Green (RoHS & CU NIPDAU       Level-1-260C-1YEAR         SN74LVC374ARGYR       ACTIVE       QFN       RGY       20       1000       Green (RoHS & CU NIPDAU       Level-2-260C-1YEAR	SN74LVC374APWLE	OBSOLETE	TSSOP	PW	20		TBD	Call TI	Call TI
no Šb/Br)         SN74LVC374APWRG4       ACTIVE       TSSOP       PW       20       2000       Green (RoHS & no Sb/Br)       CU NIPDAU       Level-1-260C-UNLIM         SN74LVC374APWT       ACTIVE       TSSOP       PW       20       250       Green (RoHS & no Sb/Br)       CU NIPDAU       Level-1-260C-UNLIM         SN74LVC374APWTE4       ACTIVE       TSSOP       PW       20       250       Green (RoHS & no Sb/Br)       CU NIPDAU       Level-1-260C-UNLIM         SN74LVC374APWTE4       ACTIVE       TSSOP       PW       20       250       Green (RoHS & CU NIPDAU       Level-1-260C-UNLIM         SN74LVC374ARGYR       ACTIVE       QFN       RGY       20       1000       Green (RoHS & CU NIPDAU       Level-2-260C-1YEAR no Sb/Br)	SN74LVC374APWR	ACTIVE	TSSOP	PW	20	2000		CU NIPDAU	Level-1-260C-UNLIM
no Šb/Br)         SN74LVC374APWT       ACTIVE       TSSOP       PW       20       250       Green (RoHS & no Sb/Br)       CU NIPDAU       Level-1-260C-UNLIM         SN74LVC374APWTE4       ACTIVE       TSSOP       PW       20       250       Green (RoHS & no Sb/Br)       CU NIPDAU       Level-1-260C-UNLIM         SN74LVC374APWTE4       ACTIVE       TSSOP       PW       20       250       Green (RoHS & CU NIPDAU       Level-1-260C-UNLIM         SN74LVC374ARGYR       ACTIVE       QFN       RGY       20       1000       Green (RoHS & CU NIPDAU       Level-2-260C-1YEAR	SN74LVC374APWRE4	ACTIVE	TSSOP	PW	20	2000		CU NIPDAU	Level-1-260C-UNLIM
no Šb/Br)         SN74LVC374APWTE4       ACTIVE       TSSOP       PW       20       250       Green (RoHS & no Sb/Br)       CU NIPDAU       Level-1-260C-UNLIM no Sb/Br)         SN74LVC374ARGYR       ACTIVE       QFN       RGY       20       1000       Green (RoHS & no Sb/Br)       CU NIPDAU       Level-2-260C-1YEAR no Sb/Br)	SN74LVC374APWRG4	ACTIVE	TSSOP	PW	20	2000		CU NIPDAU	Level-1-260C-UNLIM
no Sb/Br) SN74LVC374ARGYR ACTIVE QFN RGY 20 1000 Green (RoHS & CU NIPDAU Level-2-260C-1YEAR no Sb/Br)	SN74LVC374APWT	ACTIVE	TSSOP	PW	20	250	``	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC374ARGYR ACTIVE QFN RGY 20 1000 Green (RoHS & CU NIPDAU Level-2-260C-1YEAR no Sb/Br)	SN74LVC374APWTE4	ACTIVE	TSSOP	PW	20	250	· ·	CU NIPDAU	Level-1-260C-UNLIM
SNJ54LVC374AFK ACTIVE LCCC FK 20 1 TBD Call TI Level-NC-NC-NC	SN74LVC374ARGYR	ACTIVE	QFN	RGY	20	1000	Green (RoHS &	CU NIPDAU	Level-2-260C-1YEAR
	SNJ54LVC374AFK	ACTIVE	LCCC	FK	20	1	TBD	Call TI	Level-NC-NC-NC



26-Sep-2005

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>
SNJ54LVC374AJ	ACTIVE	CDIP	J	20	1	TBD	Call TI	Level-NC-NC-NC
SNJ54LVC374AW	ACTIVE	CFP	W	20	1	TBD	Call TI	Level-NC-NC-NC

<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.

(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)

<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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### J (R-GDIP-T\*\*) 14 LEADS SHOWN

#### PINS \*\* 14 16 20 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 .840 0.960 1.060 B MAX (19, 94)(21, 34)(24, 38)(26, 92)B MIN С 0.300 0.300 0.310 0.300 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) ← 0.005 (0,13) MIN 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

CERAMIC DUAL IN-LINE PACKAGE

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

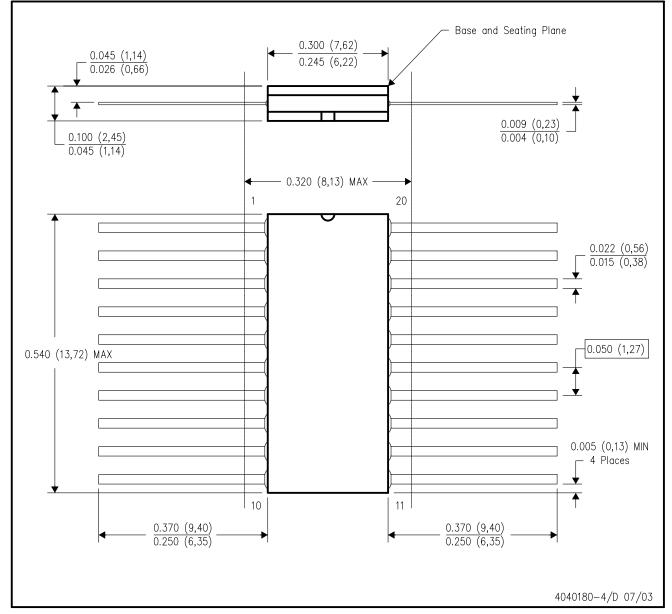
B. This drawing is subject to change without notice.

- 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.

W (R-GDFP-F20)

CERAMIC DUAL FLATPACK



NOTES:

S: 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.

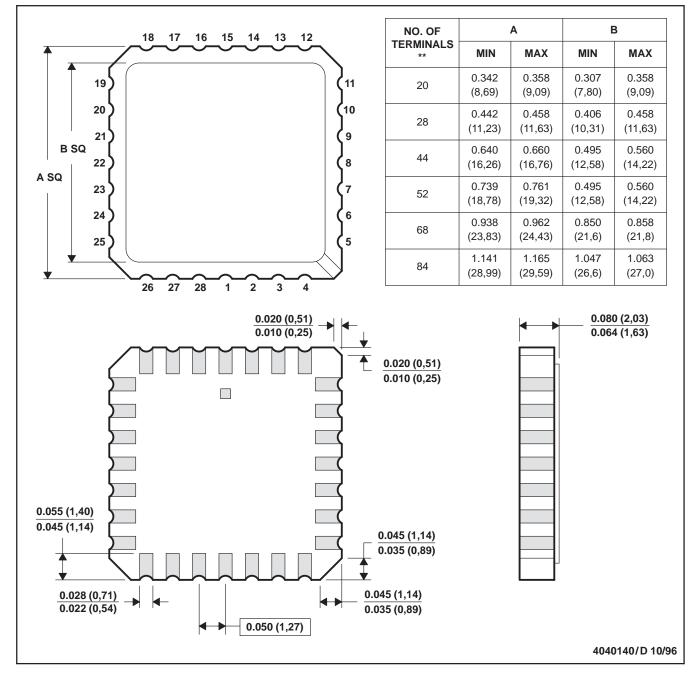
- D. Index point is provided on cap for terminal identification only.
- E. Falls within Mil-Std 1835 GDFP2-F20



MLCC006B - OCTOBER 1996

#### LEADLESS CERAMIC CHIP CARRIER

FK (S-CQCC-N\*\*) 28 TERMINAL SHOWN



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

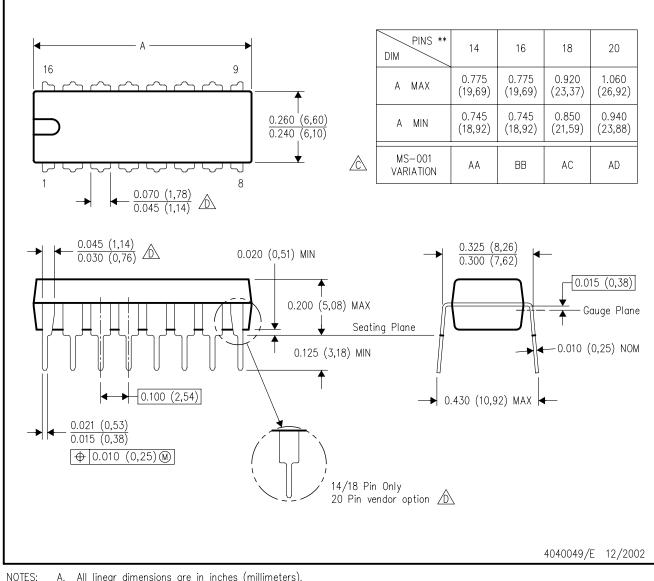
- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a metal lid.
- D. The terminals are gold plated.
- E. Falls within JEDEC MS-004



# N (R-PDIP-T\*\*)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



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

B. This drawing is subject to change without notice.

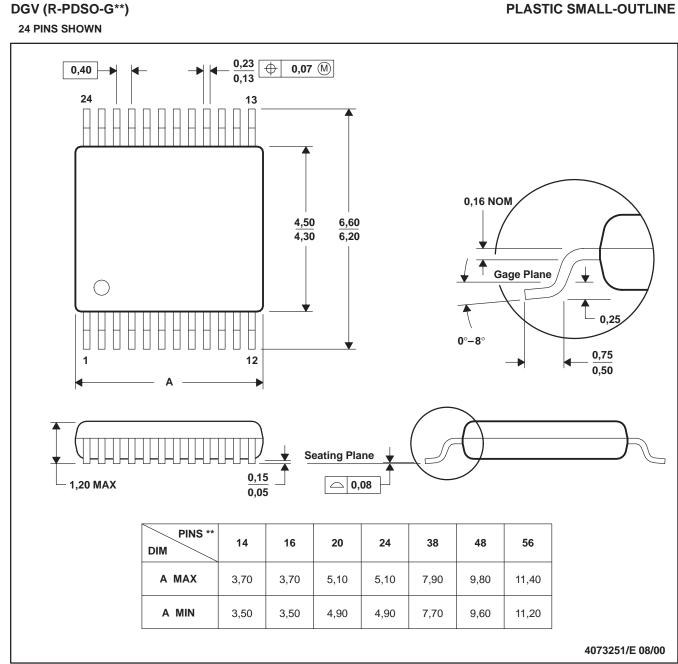
🖄 Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).

The 20 pin end lead shoulder width is a vendor option, either half or full width.



MPDS006C - FEBRUARY 1996 - REVISED AUGUST 2000

#### PLASTIC SMALL-OUTLINE



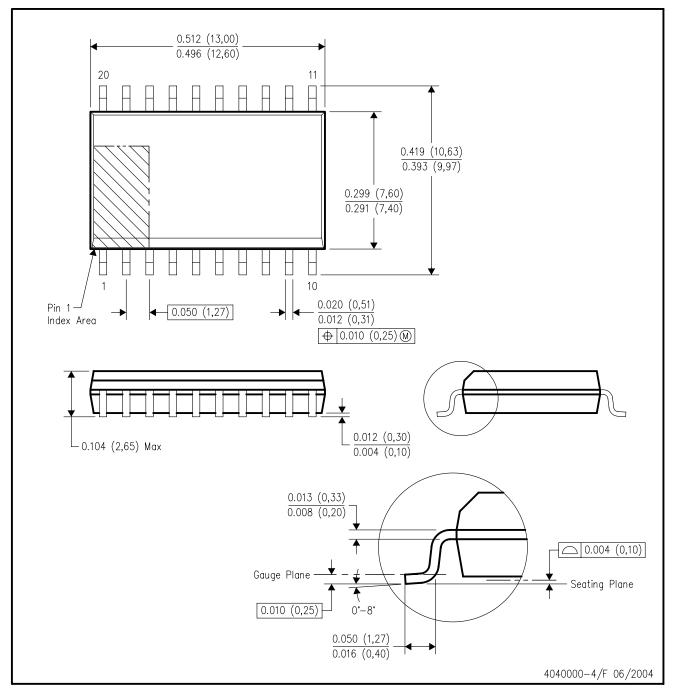
NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15 per side.
- D. Falls within JEDEC: 24/48 Pins MO-153
  - 14/16/20/56 Pins MO-194



DW (R-PDSO-G20)

PLASTIC SMALL-OUTLINE PACKAGE



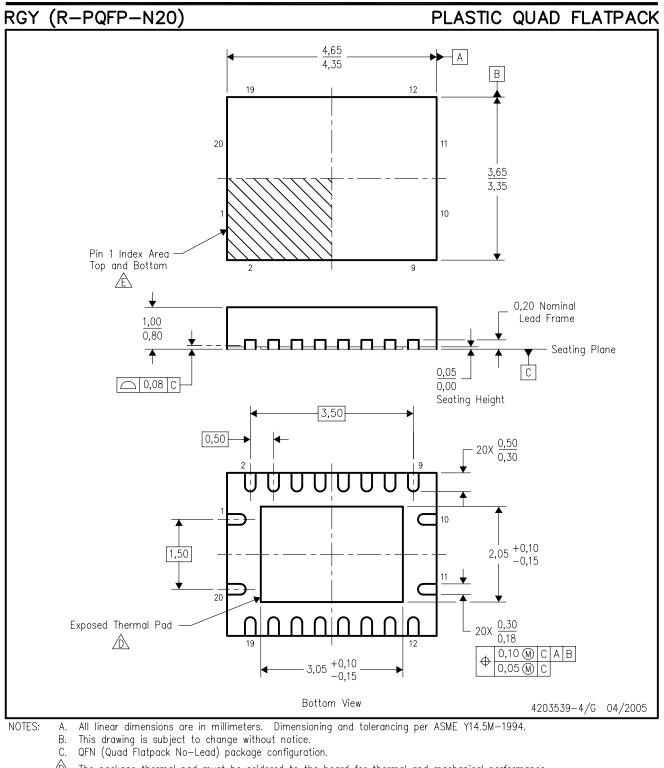
NOTES: A. All linear dimensions are in inches (millimeters).

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.

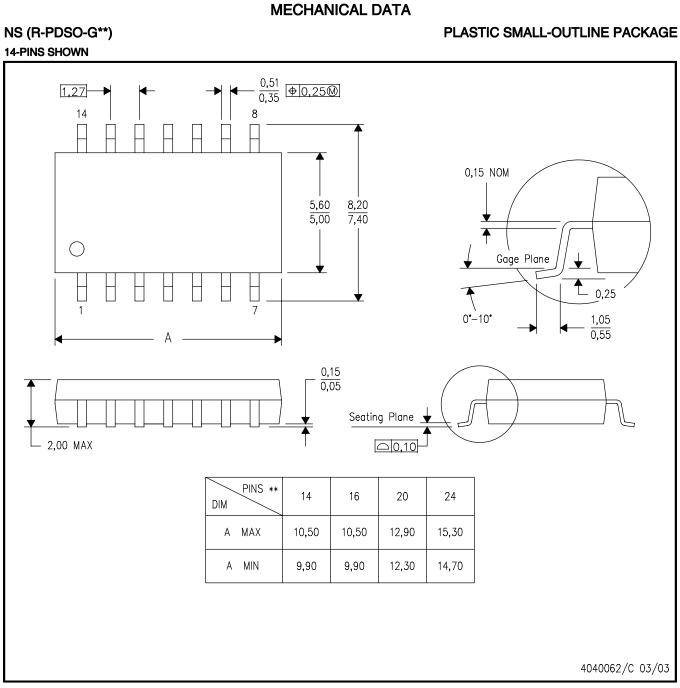




 $\Delta$  The package thermal pad must be soldered to the board for thermal and mechanical performance.

- - The Pin 1 identifiers are either a molded, marked, or metal feature.
- F. Package complies to JEDEC MO-241 variation BC.





NOTES: A. All linear dimensions are in millimeters.

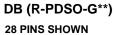
B. This drawing is subject to change without notice.

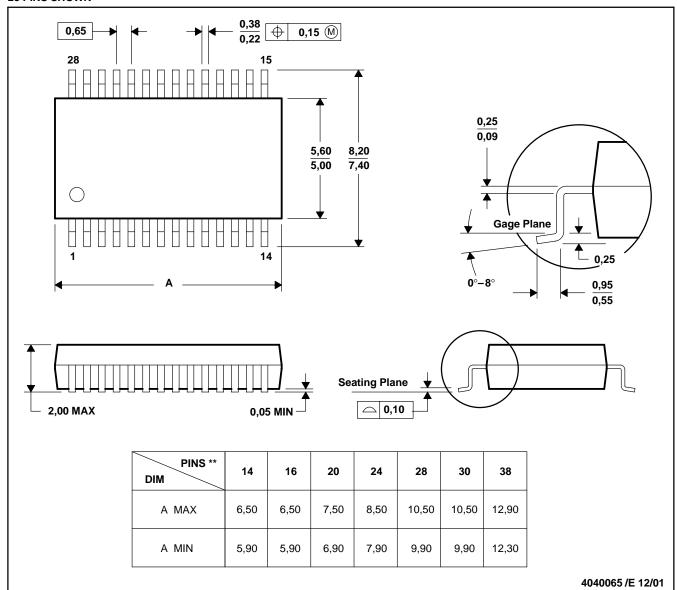
C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15.



MSSO002E - JANUARY 1995 - REVISED DECEMBER 2001

#### PLASTIC SMALL-OUTLINE





NOTES: A. All linear dimensions are in millimeters.

B. This drawing is subject to change without notice.

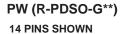
C. Body dimensions do not include mold flash or protrusion not to exceed 0,15.

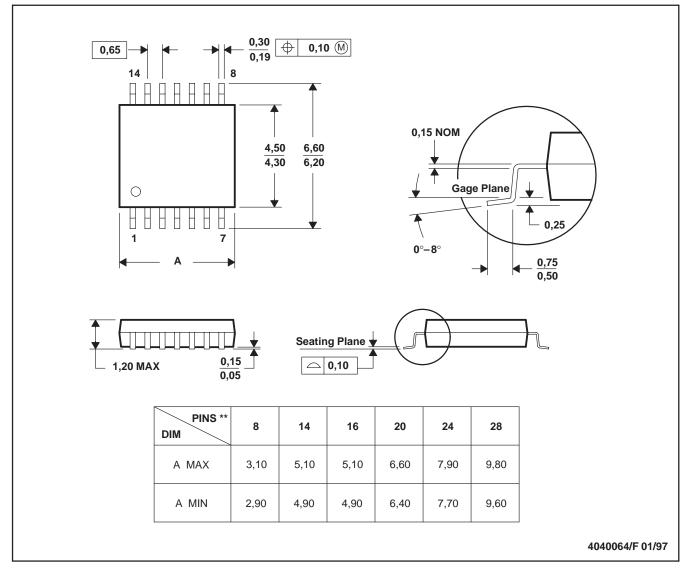
D. Falls within JEDEC MO-150



MTSS001C - JANUARY 1995 - REVISED FEBRUARY 1999

#### 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.

D. Falls within JEDEC MO-153



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