### SN5486, SN54LS86A, SN54S86 SN7486, SN74LS86A, SN74S86 QUADRUPLE 2-INPUT EXCLUSIVE-OR GATES SDLS124 – DECEMBER 1972 – REVISED MARCH 1988

SN5486, SN54LS86A, SN54S86 . . . J OR W PACKAGE

SN7486 . . . N PACKAGE SN74LS86A, SN74S86 . . . D OR N PACKAGE

(TOP VIEW)

140 VCC

13 4B

12 4A

110 4Y

10 3B

9 3A 8 3Y

1A 🗗

1Y D3

2A 🛛 4

2B 🛛 5

2Y 16

**Π**7

1B [ 2

GND

- Package Options Include Plastic "Small Outline" Packages, Ceramic Chip Carriers and Flat Packages, and Standard Plastic and Ceramic 300-mil DIPs
- Dependable Texas Instruments Quality and Reliability

	TYPICAL AVERAGE	TYPICAL
TYPE	PROPAGATION	TOTAL POWER
	DELAY TIME	DISSIPATION
'86	14 ns	150 mW
'LS86A	10 ns	30.5 mW
'S86	7 ns	250 mW

### description

These devices contain four independent 2-input Exclusive-OR gates. They perform the Boolean functions  $Y = A \oplus B = \overline{AB} + A\overline{B}$  in positive logic.

A common application is as a true/complement element. If one of the inputs is low, the other input will be reproduced in true form at the output. If one of the inputs is high, the signal on the other input will be reproduced inverted at the output.

The SN5486, 54LS86A, and the SN54S86 are characterized for operation over the full military temperature range of -55 °C to 125 °C. The SN7486, SN74LS86A, and the SN74S86 are characterized for operation from 0 °C to 70 °C.

### exclusive-OR logic

An exclusive-OR gate has many applications, some of which can be represented better by alternative logic symbols.



**EXCLUSIVE-OR** 

These are five equivalent Exclusive-OR symbols valid for an '86 or 'LS86A gate in positive logic; negation may be shown at any two ports.

LOGIC IDENTITY ELEMENT



The output is active (low) if all inputs stand at the same logic level (i.e., A = B).

EVEN-PARITY



The output is active (low) if an even number of inputs (i.e., 0 or 2) are active.

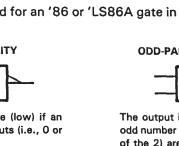
**ODD-PARITY ELEMENT** 

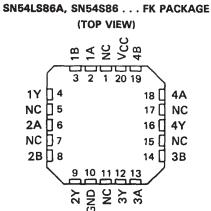


The output is active (high) if an odd number of inputs (i.e., only 1 of the 2) are active.

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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.





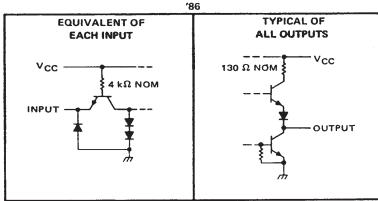
NC - No internal connection

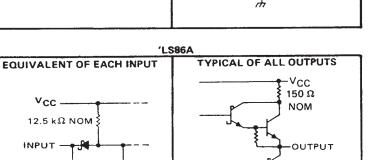
STRUMENTS

### SN5486, SN54LS86A, SN54S86 SN7486, SN74LS86A, SN74S86 QUADRUPLE 2-INPUT EXCLUSIVE-OR GATES SDLS124 – DECEMBER 1972 – REVISED MARCH 1988

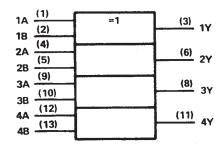
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## schematics of inputs and outputs





## logic symbol<sup>†</sup>



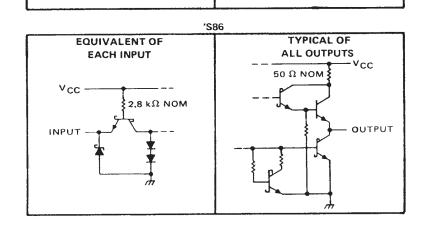
<sup>†</sup>This symbol is in accordance with

ANSI/IEEE Std. 91-1984 and IEC Publication 617-12. Pin numbers shown are for D, J, N, and W packages.

#### FUNCTION TABLE

INP	UTS	OUTPUT
A	В	Y
L	L	L
L	н	н
н	L	н
н	н	L

H = high level, L = low level



## SN5486, SN54LS86A, SN54S86 SN7486, SN74LS86A, SN74S86 **QUADRUPLE 2-INPUT EXCLUSIVE-OR GATES** SDLS124 – DECEMBER 1972 – REVISED MARCH 1988

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

Supply voltage, VCC (see Note 1)			 									7V
Input voltage												
Operating free-air temperature range: SN5486												
												. 0°C to 70°C
Storage temperature range		•			•	•		•	•	•	•	–65°C to 150°C

NOTE 1: Voltage values are with respect to network ground terminal.

### recommended operating conditions

		SN5486	5		UNIT		
	MIN	NOM	MAX	MIN	NOM	MAX	UNIT
Supply voltage, V <sub>CC</sub>	4.5	5	5.5	4.75	5	5.25	V
High-level output current, IOH			-800			-800	μA
Low-level output current, IOL			16			16	mA
Operating free-air temperature, T <sub>A</sub>	55		125	0		70	°C

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

		TEST CONDITIONS <sup>†</sup>	1	SN5486	3		UNIT		
	PARAMETER	TEST CONDITIONS.	MIN	τγρ‡	MAX	MIN	TYP‡	MAX	UNIT
ViH	High-level input voltage		2			2			V
VIL	Low-level input voltage				0.8			0.8	V
VIK	Input clamp voltage	$V_{CC} = MIN, I_1 = -8 mA$			-1.5			-1.5	V
		$V_{CC} = MIN, V_{IH} = 2V,$	2.4	3.4		2.4	3.4		V
Vон	High-level output voltage	V <sub>IL</sub> = 0.8 V, I <sub>OH</sub> = -800 µA	2.4	3.4		2.4	5.4		
		V <sub>CC</sub> = MIN, V <sub>IH</sub> = 2 V		0.2	0.4		0.2	0.4	v
VOL	Low-level output voltage	V <sub>1L</sub> = 0.8 V, 10L = 16 mA		0,2	0.4		0.2	0.4	
4	Input current at maximum input voltage	V <sub>CC</sub> = MAX, V <sub>I</sub> = 5.5 V			1			1	mA
1 <sub>IH</sub>	High-level input current	V <sub>CC</sub> = MAX, V <sub>1</sub> = 2.4 V			40			40	μA
11L	Low-level input current	V <sub>CC</sub> = MAX, V <sub>I</sub> = 0.4 V	1		-1.6			-1.6	mA
los	Short-circuit output current §	V <sub>CC</sub> = MAX	20		-55	-18		-55	mA
1CC	Supply current	V <sub>CC</sub> = MAX, See Note 2		30	43	1	30	50	mA

<sup>†</sup>For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions for the applicable type. <sup>‡</sup>All typical values are at  $V_{CC} = 5 V$ ,  $T_A = 25^{\circ}C$ .

SNot more than one output should be shorted at a time.

NOTE 2: ICC is measured with the inputs grounded and the outputs open.

## switching characteristics, V<sub>CC</sub> = 5 V, T<sub>A</sub> = $25^{\circ}$ C

PARAMETER¶	FROM (INPUT)	TEST COM	NDITIONS	MIN	түр	мах	UNIT
<sup>t</sup> PLH	A or B	Otheringut low	CL = 15 pF,		15	23	ns
tPHL	AUB	Other input low	$R_{L} = 400 \Omega,$		11	17	
трен	A or B	Other input high	See Note 3		18	30	ns
tPHL	A 01 B	Other input high	See Note S		13	22	

 $f_{tPLH}$  = propagation delay time, low-to-high-level output

tpHL = propagation delay time, high-to-low-level output

NOTE 3: Load circuits and voltage waveforms are shown in Section 1.



## SN5486, SN54LS86A, SN54S86 SN7486, SN74LS86A, SN74S86 QUADRUPLE 2-INPUT EXCLUSIVE-OR GATES

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

Supply voltage, V <sub>CC</sub> (see Note 1)	
Operating free-air temperature range: SN54LS86A	25°C
SN74LS86A   SN74LS86A   Storage temperature range   Storage temperature range	

NOTE 1: Voltage values are with respect to network ground terminal.

### recommended operating conditions

	S	N54LS	36A	S	UNIT		
	MIN	NOM	MAX	MIN	NOM	MAX	
Supply voltage, V <sub>CC</sub>	4.5	5	5.5	4.75	5	5.25	V
High-level output current, IOH			-400			-400	μA
Low-level output current, IOL			4			8	mA
Operating free-air temperature, TA	-55		125	0		70	°C

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

			upizionist	SM	154LS8	6A	SM			
	PARAMETER	TEST CO	NDITIONS	MIN	TYP‡	MAX	MIN	TYP‡	MAX	
ViH	High-level input voltage			2			2			V
VIL	Low-level input voltage			1		0.7			0.8	V
Vik	Input clamp voltage	V <sub>CC</sub> = MIN,	li = -18 mA	1		-1.5			-1.5	V
VOH	High-level output voltage	V <sub>CC</sub> = MIN, V <sub>IL</sub> = V <sub>IL</sub> max	V <sub>IH</sub> = 2 V, , I <sub>OH</sub> = -400 µA	2.5	3.4		2.7	3.4		v
Mai	Low-level output voltage	$V_{CC} = MIN,$ $V_{IH} = 2 V,$	1 <sub>0L</sub> = 4 mA		0.25	0.4		0.25	0.4	
VOL		VIL = VILmax	1 <sub>OL</sub> = 8 mA					0.35	0.5	
4	Input current at maximum input voltage	V <sub>CC</sub> = MAX,	V <sub>1</sub> = 7 V	1		0.2	T		0.2	mA
Чн	High-level input current	V <sub>CC</sub> = MAX,	V <sub>I</sub> = 2.7 V			40			40	μA
4	Low-level input current	V <sub>CC</sub> = MAX,	V <sub>1</sub> = 0.4 V	1		0.8			-0.8	mA
los	Short-circuit output current <sup>§</sup>	V <sub>CC</sub> = MAX		- 20		- 100	- 20		- 100	mA
Icc	Supply current	V <sub>CC</sub> = MAX,	See Note 2	1	6.1	10		6.1	10	mA

<sup>†</sup> For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions for the applicable type. <sup>‡</sup>All typical values are at  $V_{CC} = 5 \text{ V}$ ,  $T_A = 25^{\circ}$ C.

SNot more than one output should be shorted at a time.

NOTE 2:  $I_{CC}$  is measured with the inputs grounded and the outputs open.

## switching characteristics, $V_{CC}$ = 5 V, $T_A$ = 25°C

PARAMETER¶	FROM (INPUT)	TEST CON	TEST CONDITIONS			MAX	UNIT
tPLH	A or B	Orber input low	$C_{\rm r} = 15  \rm nE$		12	23	ns
<sup>t</sup> PHL	AUIB	Other input low	$C_{L} = 15  pF,$	[	10	17	
<sup>t</sup> PLH	A or B	Other input high	R <sub>L</sub> = 2 kQ, See Note 3		20	30	ns
<sup>t</sup> PHL	A or B Other inpu	Other input high	See Note 5	[·	13	22	

 $\P_{tp_{LH}}$  = propagation delay time, low-to-high-level output

tpHL = propagation delay time, high-to-low-level output

NOTE 3: Load circuits and voltage waveforms are shown in Section 1.



## SN5486, SN54LS86A, SN54S86 SN7486, SN74LS86A, SN74S86 **QUADRUPLE 2-INPUT EXCLUSIVE-OR GATES**

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

Supply voltage, V <sub>CC</sub> (see Note 1)													7V
													5.5 V
Operating free-air temperature range: SN54S86		 •		•						•			–55°C to 125°C
SN74S86		 •						 •		•	 •	•	. 0°C to 70°C
Storage temperature range	•	 •	•••	•	•••	•	• •	 •	•	•	 •		–65°C to 150°C

NOTE 1: Voltage values are with respect to network ground terminal.

### recommended operating conditions

		SN54S8	6				
	MIN	NOM	MAX	MIN	NOM	MAX	UNIT
Supply voltage, V <sub>CC</sub>	4.5	5	5.5	4.75	5	5.25	V
High-level output current, IOH			-1			-1	mA
Low-level output current, IOL			20			20	mA
Operating free-air temperature, TA	-55		125	0		70	°C

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

		TEST CONDITIONS!		SN54S8	6	SN74S86			UNIT
	PARAMETER	TEST CONDITIONS <sup>†</sup>	MIN	<b>ΤΥΡ</b> ‡	MAX	MIN	TYP‡	MAX	
VIH	High-level input voltage		2			2			V
VIL	Low-level input voltage				0.8		_	0.8	V
VIK	Input clamp voltage	V <sub>CC</sub> = MIN, I <sub>1</sub> =18 mA			-1.2			-1.2	V
v <sub>он</sub>	High-level output voltage	$V_{CC} = MIN, V_{1H} = 2V,$ $V_{11} = 0.8V, I_{OH} = -1 mA$	2.5	3.4		2.7	3.4		v
VOL	Low-level output voltage	$V_{CC} = MIN, V_{1H} = 2 V$ $V_{1L} = 0.8 V, I_{0L} = 20 mA$	1		0.5			0.5	v
4	Input current at maximum input voltage	V <sub>CC</sub> = MAX, V <sub>I</sub> = 5.5 V	<u> </u>		1			1	mA
<u>ч</u> н	High-level input current	V <sub>CC</sub> = MAX, V <sub>1</sub> = 2.7 V			50			50	μA
11	Low-level input current	V <sub>CC</sub> = MAX, V <sub>I</sub> = 0.5 V	1		-2	1		-2	mA
los	Short-circuit output current §	V <sub>CC</sub> = MAX	-40		-100	-40		-100	mA
	Supply current	V <sub>CC</sub> = MAX, See Note 2		50	75		50	75	mA

<sup>†</sup>For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions for the applicable type.

<sup>‡</sup>All typical values are at  $V_{CC} = 5 V$ ,  $T_A = 25^{\circ}$ C. §Not more than one output should be shorted at a time, and duration of the short-circuit should not exceed one second.

NOTE 2: ICC is measured with the inputs grounded and the outputs open.

### switching characteristics, $V_{CC} = 5 V$ , $T_A = 25^{\circ}C$

PARAMETER	FROM (INPUT)	TEST CON	MIN	ΜΙΝ ΤΥΡ	MAX	UNIT	
tРLН	A or B	Other input low	C1 = 15 pF,		7	10.5	ns
tPHL		Other input low	$R_L = 280 \Omega$ , See Note 3		6.5	10	ļ
tplH	A or B	Other input high			7	10.5	ns
трнг		Other input high		6.5	6.5	10	

**1**<sub>tpLH</sub> = propagation delay time, low-to-high-level output

tpHL = propagation delay time, high-to-low-level output

NOTE 3: Load circuits and voltage waveforms are shown in Section 1.



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12-Jan-2006

## **PACKAGING INFORMATION**

JM3851007501BCA   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     JM3851007501BDA   ACTIVE   CFP   W   14   1   TBD   Call TI   N / A for Pkg Type     JM3851007501BDA   ACTIVE   LCCC   FK   20   1   TBD   Call TI   N / A for Pkg Type     JM3851030502BCA   ACTIVE   LCCC   FK   20   1   TBD   Call TI   N / A for Pkg Type     JM3851030502BCA   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     JM3851030502BCA   ACTIVE   CPP   W   14   1   TBD   Call TI   N / A for Pkg Type     JM3851030502BCA   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN5486J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN5486AJ   ACTIVE   CDIP   J   14   1   <	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>
JM38510/07501BDA   ACTIVE   CFP   W   14   1   TBD   Call TI   N / A for Pkg Type     JM38510/30502B2A   ACTIVE   LCCC   FK   20   1   TBD   Call TI   N / A for Pkg Type     JM38510/30502BCA   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     JM38510/30502BCA   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     JM38510/30502BCA   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     JM38510/30502BCA   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     JM38510/30502BCA   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN5486J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN5486AJ   ACTIVE   CDIP   J   14   1	JM38510/07501BCA	ACTIVE	CDIP	J	14	1	TBD	Call TI	N / A for Pkg Type
JM38510/30502B2A   ACTIVE   LCCC   FK   20   1   TBD   Call TI   N / A for Pkg Type     JM38510/30502B2A   ACTIVE   LCCC   FK   20   1   TBD   Call TI   N / A for Pkg Type     JM38510/30502BCA   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     JM38510/30502BDA   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     JM38510/30502BDA   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     JM38510/30502BDA   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN544586J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54586J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54586J   ACTIVE   CDIP   J   14   1	JM38510/07501BDA	ACTIVE	CFP	W	14	1	TBD	Call TI	N / A for Pkg Type
JM38510/3050282A   ACTIVE   LCCC   FK   20   1   TBD   Call TI   N / A for Pkg Type     JM38510/305028CA   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     JM38510/305028DA   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     JM38510/30502BDA   ACTIVE   CFP   W   14   1   TBD   Call TI   N / A for Pkg Type     JM38510/30502BDA   ACTIVE   CDP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN5486J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54856J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54856J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54856J   ACTIVE   CDIP   J   14   1   TBD <td>JM38510/07501BDA</td> <td>ACTIVE</td> <td>CFP</td> <td>W</td> <td>14</td> <td>1</td> <td>TBD</td> <td>Call TI</td> <td>N / A for Pkg Type</td>	JM38510/07501BDA	ACTIVE	CFP	W	14	1	TBD	Call TI	N / A for Pkg Type
JM38510/30502BCA   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     JM38510/30502BCA   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     JM38510/30502BDA   ACTIVE   CFP   W   14   1   TBD   Call TI   N / A for Pkg Type     SM3486J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN4486J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN541S86AJ   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN541S86AJ   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54386J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54386J   ACTIVE   CDIP   J   14   1   TBD <td< td=""><td>JM38510/30502B2A</td><td>ACTIVE</td><td>LCCC</td><td>FK</td><td>20</td><td>1</td><td>TBD</td><td>Call TI</td><td>N / A for Pkg Type</td></td<>	JM38510/30502B2A	ACTIVE	LCCC	FK	20	1	TBD	Call TI	N / A for Pkg Type
JM38510/30502BCA   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     JM38510/30502BDA   ACTIVE   CFP   W   14   1   TBD   Call TI   N / A for Pkg Type     JM38510/30502BDA   ACTIVE   CFP   W   14   1   TBD   Call TI   N / A for Pkg Type     SN5486J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN5486AJ   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54LS86AJ   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54S86J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN7466N   OBSOLETE   PDIP   N   14   TBD   Call TI   Call TI   Call TI   Call TI   Call TI   SN74680   OBSOLETE   PDIP   N   14   TBD	JM38510/30502B2A	ACTIVE	LCCC	FK	20	1	TBD	Call TI	N / A for Pkg Type
JM38510/30502BDA   ACTIVE   CFP   W   14   1   TBD   Call TI   N / A for Pkg Type     JM38510/30502BDA   ACTIVE   CFP   W   14   1   TBD   Call TI   N / A for Pkg Type     SN5486J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN5486J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54LS86AJ   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54S86J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54S86J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN7468N   OBSOLETE   PDIP   N   14   TBD   Call TI   Call TI </td <td>JM38510/30502BCA</td> <td>ACTIVE</td> <td>CDIP</td> <td>J</td> <td>14</td> <td>1</td> <td>TBD</td> <td>Call TI</td> <td>N / A for Pkg Type</td>	JM38510/30502BCA	ACTIVE	CDIP	J	14	1	TBD	Call TI	N / A for Pkg Type
JM38510/305028DA   ACTIVE   CFP   W   14   1   TBD   Call TI   N / A for Pkg Type     SN5486J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN5486J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN5485AJ   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN5485AJ   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54586J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54586J   ACTIVE   CDIP   J   14   1   TBD   Call TI   Call T	JM38510/30502BCA	ACTIVE	CDIP	J	14	1	TBD	Call TI	N / A for Pkg Type
SN5486J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN5486J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54LS86AJ   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54LS86AJ   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54S86J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN7486N   OBSOLETE   PDIP   N   14   TBD   Call TI   Call TI<	JM38510/30502BDA	ACTIVE	CFP	W	14	1	TBD	Call TI	N / A for Pkg Type
SN5486J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54LS86AJ   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54LS86AJ   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54S86J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54S86J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN7486N   OBSOLETE   PDIP   N   14   TBD   Call TI	JM38510/30502BDA	ACTIVE	CFP	W	14	1	TBD	Call TI	N / A for Pkg Type
SN54LS86AJ   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54LS86AJ   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54S86J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54S86J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54S86J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN7486N   OBSOLETE   PDIP   N   14   TBD   Call TI   Call T	SN5486J	ACTIVE	CDIP	J	14	1	TBD	Call TI	N / A for Pkg Type
SN54LS86AJ   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54S86J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54S86J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN7486N   OBSOLETE   PDIP   N   14   TBD   Call TI   Call TI   Call TI     SN7486N   OBSOLETE   PDIP   N   14   TBD   Call TI   Call TI   Call TI     SN7486N3   OBSOLETE   PDIP   N   14   TBD   Call TI   Call TI   Call TI     SN7486AD   ACTIVE   SOIC   D   14   50   Green (RoHS & CU NIPDAU   Level-1-260C-UNLIM     SN74LS86AD   ACTIVE   SOIC   D   14   50   Green (RoHS & CU NIPDAU   Level-1-260C-UNLIM     SN74LS86ADR4   ACTIVE   SOIC   D   14   50   Green (RoHS & CU NIPDAU   Level-1-260C-U	SN5486J	ACTIVE	CDIP	J	14	1	TBD	Call TI	N / A for Pkg Type
SN54586J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN54586J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN7486N   OBSOLETE   PDIP   N   14   TBD   Call TI   Call TI   Call TI     SN7486N3   OBSOLETE   PDIP   N   14   TBD   Call TI   Call TI     SN7486N3   OBSOLETE   PDIP   N   14   TBD   Call TI   Call TI     SN74486N3   OBSOLETE   PDIP   N   14   TBD   Call TI   Call TI     SN74LS86AD   ACTIVE   SOIC   D   14   50   Green (RoHS & CU NIPDAU   Level-1-260C-UNLIM no Sb/Br)     SN74LS86ADE4   ACTIVE   SOIC   D   14   50   Green (RoHS & CU NIPDAU   Level-1-260C-UNLIM no Sb/Br)     SN74LS86ADR   ACTIVE   SOIC   D   14   250   Green (RoHS & CU NIPDAU   Level-1-260C-UNLIM no Sb/Br)     SN7	SN54LS86AJ	ACTIVE	CDIP	J	14	1	TBD	Call TI	N / A for Pkg Type
SN54S86J   ACTIVE   CDIP   J   14   1   TBD   Call TI   N / A for Pkg Type     SN7486N   OBSOLETE   PDIP   N   14   TBD   Call TI   Call TI   Call TI     SN7486N   OBSOLETE   PDIP   N   14   TBD   Call TI   Call TI     SN7486N3   OBSOLETE   PDIP   N   14   TBD   Call TI   Call TI     SN7486N3   OBSOLETE   PDIP   N   14   TBD   Call TI   Call TI     SN74LS86AD   ACTIVE   SOIC   D   14   50   Green (RoHS & CU NIPDAU   Level-1-260C-UNLIM no Sb/Br)     SN74LS86ADE4   ACTIVE   SOIC   D   14   50   Green (RoHS & CU NIPDAU   Level-1-260C-UNLIM no Sb/Br)     SN74LS86ADE4   ACTIVE   SOIC   D   14   50   Green (RoHS & CU NIPDAU   Level-1-260C-UNLIM no Sb/Br)     SN74LS86ADR   ACTIVE   SOIC   D   14   2500   Green (RoHS & CU NIPDAU   Level-1-260C-UNLIM no Sb/Br)	SN54LS86AJ	ACTIVE	CDIP	J	14	1	TBD	Call TI	N / A for Pkg Type
SN7486NOBSOLETEPDIPN14TBDCall TICall TICall TISN7486NOBSOLETEPDIPN14TBDCall TICall TICall TISN7486N3OBSOLETEPDIPN14TBDCall TICall TICall TISN7486N3OBSOLETEPDIPN14TBDCall TICall TICall TISN7486N3OBSOLETEPDIPN14TBDCall TICall TICall TISN74LS86ADACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADE4ACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADE4ACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADR4ACTIVESOICD14250Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADRACTIVESOICD142500Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADR44ACTIVESOICD142500Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ANR44ACTIVESOICD142500Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ANR4ACTIVESOICD142500Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ANACTIVEP	SN54S86J	ACTIVE	CDIP	J	14	1	TBD	Call TI	N / A for Pkg Type
SN7486NOBSOLETEPDIPN14TBDCali TiCali TiSN7486N3OBSOLETEPDIPN14TBDCali TiCali TiCali TiSN7486N3OBSOLETEPDIPN14TBDCali TiCali TiCali TiSN74LS86ADACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADE4ACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADE4ACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADRACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADRACTIVESOICD142500Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADRA4ACTIVESOICD142500Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADRE4ACTIVESOICD142500Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ANACTIVESOICD142500Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ANACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAU <td< td=""><td>SN54S86J</td><td>ACTIVE</td><td>CDIP</td><td>J</td><td>14</td><td>1</td><td>TBD</td><td>Call TI</td><td>N / A for Pkg Type</td></td<>	SN54S86J	ACTIVE	CDIP	J	14	1	TBD	Call TI	N / A for Pkg Type
SN7486N3OBSOLETEPDIPN14TBDCall TICall TISN7486N3OBSOLETEPDIPN14TBDCall TICall TICall TISN74LS86ADACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADE4ACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADE4ACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADRACTIVESOICD142500Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADRACTIVESOICD142500Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADRE4ACTIVESOICD142500Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ANRE4ACTIVESOICD142500Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ANACTIVESOICD142500Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ANRACTIVEPDIPN1425Pb-Free (ROHS)	SN7486N	OBSOLETE	PDIP	Ν	14		TBD	Call TI	Call TI
SN7486N3OBSOLETEPDIPN14TBDCall TICall TISN74LS86ADACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADE4ACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADE4ACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADR4ACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADRACTIVESOICD142500Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADRACTIVESOICD142500Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADRE4ACTIVESOICD142500Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADRE4ACTIVESOICD142500Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ANACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg Type (RoHS)SN74LS86AN3OBSOLETEPDIPN1425Pb-Free (RoHS)Cu NIPDAUN / A for Pkg Type (RoHS)SN74LS86ANE4ACTIVEPDIPN1425Pb-Free 	SN7486N	OBSOLETE	PDIP	Ν	14		TBD	Call TI	Call TI
SN74LS86ADACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADE4ACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADE4ACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADR4ACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADRACTIVESOICD142500Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADR4ACTIVESOICD142500Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADRE4ACTIVESOICD142500Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ADRE4ACTIVESOICD142500Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ANACTIVEPDIPN14250Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS86ANACTIVEPDIPN14250Pb-Free (RoHS)CU NIPDAUN / A for Pkg Type (RoHS)SN74LS86AN3OBSOLETEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg Type (RoHS)SN74LS86ANE4ACTIVEPDIPN	SN7486N3	OBSOLETE	PDIP	Ν	14		TBD	Call TI	Call TI
N74LS86ADACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LS86ADE4ACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LS86ADE4ACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LS86ADRACTIVESOICD1450Green (RoHS & cU NIPDAULevel-1-260C-UNLIMSN74LS86ADRACTIVESOICD142500Green (RoHS & cU NIPDAULevel-1-260C-UNLIMSN74LS86ADRACTIVESOICD142500Green (RoHS & cU NIPDAULevel-1-260C-UNLIMSN74LS86ADRE4ACTIVESOICD142500Green (RoHS & cU NIPDAULevel-1-260C-UNLIMSN74LS86ADRE4ACTIVESOICD142500Green (RoHS & cU NIPDAULevel-1-260C-UNLIMSN74LS86ADRE4ACTIVESOICD142500Green (RoHS & cU NIPDAULevel-1-260C-UNLIMSN74LS86ANACTIVEPDIPN1425Pb-FreeCU NIPDAUN / A for Pkg TypeSN74LS86ANACTIVEPDIPN1425Pb-FreeCU NIPDAUN / A for Pkg TypeSN74LS86AN3OBSOLETEPDIPN14TBDCall T1Call T1SN74LS86AN3OBSOLETEPDIPN1425Pb-FreeCU NIPDAUN / A for Pkg TypeSN74LS86ANE4ACTIVEPDIPN <td>SN7486N3</td> <td>OBSOLETE</td> <td>PDIP</td> <td>Ν</td> <td>14</td> <td></td> <td>TBD</td> <td>Call TI</td> <td>Call TI</td>	SN7486N3	OBSOLETE	PDIP	Ν	14		TBD	Call TI	Call TI
SN74LS86ADE4ACTIVESOICD1450Green (RoHS & CU NIPDAU no Sb/Br)Level-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LS86ADE4ACTIVESOICD1450Green (RoHS & CU NIPDAU no Sb/Br)Level-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LS86ADRACTIVESOICD142500Green (RoHS & CU NIPDAU no Sb/Br)Level-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LS86ADRACTIVESOICD142500Green (RoHS & CU NIPDAU no Sb/Br)Level-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LS86ADRE4ACTIVESOICD142500Green (RoHS & CU NIPDAU no Sb/Br)Level-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LS86ADRE4ACTIVESOICD142500Green (RoHS & CU NIPDAU no Sb/Br)Level-1-260C-UNLIM no Sb/Br)SN74LS86ANACTIVEPDIPN14250Green (RoHS & CU NIPDAU (RoHS)Level-1-260C-UNLIM no Sb/Br)SN74LS86AN3OBSOLETEPDIPN1425Pb-Free (RoHS)CU NIPDAU N / A for Pkg Type (RoHS)SN74LS86AN3OBSOLETEPDIPN1425Pb-Free (RoHS)Cul ITI Call TI Call TISN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)Cul NIPDAU N / A for Pkg TypeSN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)Cul NIPDAU N / A for Pkg TypeSN74LS86ANE4ACTIV	SN74LS86AD	ACTIVE	SOIC	D	14	50		CU NIPDAU	Level-1-260C-UNLIM
N74LS86ADE4ACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LS86ADRACTIVESOICD142500Green (RoHS & CU NIPDAULevel-1-260C-UNLIMSN74LS86ADRACTIVESOICD142500Green (RoHS & CU NIPDAULevel-1-260C-UNLIMSN74LS86ADRE4ACTIVESOICD142500Green (RoHS & CU NIPDAULevel-1-260C-UNLIMSN74LS86ADRE4ACTIVESOICD142500Green (RoHS & CU NIPDAULevel-1-260C-UNLIMSN74LS86ADRE4ACTIVESOICD142500Green (RoHS & CU NIPDAULevel-1-260C-UNLIMSN74LS86ANR4ACTIVEPDIPN14250Green (RoHS & CU NIPDAULevel-1-260C-UNLIMSN74LS86ANACTIVEPDIPN14250Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86ANACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86AN3OBSOLETEPDIPN1425Pb-Free (RoHS)Cul NIPDAUN / A for Pkg TypeSN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg Type	SN74LS86AD	ACTIVE	SOIC	D	14	50		CU NIPDAU	Level-1-260C-UNLIM
N74LS86ADRACTIVESOICD142500Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LS86ADRACTIVESOICD142500Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LS86ADRE4ACTIVESOICD142500Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LS86ADRE4ACTIVESOICD142500Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LS86ANRE4ACTIVESOICD142500Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LS86ANACTIVEPDIPN14250Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86ANACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86AN3OBSOLETEPDIPN14TBDCall TICall TISN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86ANE4ACTIVEPDIPN1425Pb-Free (ROHS)CU NIPDAUN / A for Pkg TypeSN74LS86ANE4ACTIVEPDIPN1425Pb-Free (ROHS)CU NIPDAUN / A for Pkg TypeSN74LS86ANE4ACTIVEPDIPN1425Pb-Free (ROHS)CU NIPDAUN / A for Pkg Type	SN74LS86ADE4	ACTIVE	SOIC	D	14	50	,	CU NIPDAU	Level-1-260C-UNLIM
SN74LS86ADRACTIVESOICD142500Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LS86ADRE4ACTIVESOICD142500Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LS86ADRE4ACTIVESOICD142500Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LS86ANACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86AN3OBSOLETEPDIPN1425Pb-Free (RoHS)Cul ITICall TISN74LS86AN3OBSOLETEPDIPN14TBDCall TICall TISN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg Type	SN74LS86ADE4	ACTIVE	SOIC	D	14	50		CU NIPDAU	Level-1-260C-UNLIM
SN74LS86ADRE4ACTIVESOICD142500Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LS86ADRE4ACTIVESOICD142500Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LS86ANACTIVEPDIPN14250Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LS86ANACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86AN3OBSOLETEPDIPN1425Pb-Free (RoHS)Call TICall TISN74LS86AN3OBSOLETEPDIPN14TBDCall TICall TISN74LS86AN44ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg Type	SN74LS86ADR	ACTIVE	SOIC	D	14	2500		CU NIPDAU	Level-1-260C-UNLIM
SN74LS86ADRE4ACTIVESOICD142500Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LS86ANACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86ANACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86AN3OBSOLETEPDIPN1425Pb-Free (RoHS)Cu NIPDAUN / A for Pkg TypeSN74LS86AN3OBSOLETEPDIPN14TBDCall TICall TISN74LS86AN4ACTIVEPDIPN1425Pb-Free (RoHS)Cu NIPDAUN / A for Pkg TypeSN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg Type	SN74LS86ADR	ACTIVE	SOIC	D	14	2500		CU NIPDAU	Level-1-260C-UNLIM
SN74LS86ANACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86ANACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86AN3OBSOLETEPDIPN14TBDCall TICall TISN74LS86AN3OBSOLETEPDIPN14TBDCall TICall TISN74LS86AN3OBSOLETEPDIPN14TBDCall TICall TISN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg Type	SN74LS86ADRE4	ACTIVE	SOIC	D	14	2500		CU NIPDAU	Level-1-260C-UNLIM
(RoHS)SN74LS86ANACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86AN3OBSOLETEPDIPN14TBDCall TICall TISN74LS86AN3OBSOLETEPDIPN14TBDCall TICall TISN74LS86AN3OBSOLETEPDIPN14TBDCall TICall TISN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg Type	SN74LS86ADRE4	ACTIVE	SOIC	D	14	2500		CU NIPDAU	Level-1-260C-UNLIM
SN74LS86AN3OBSOLETEPDIPN14TBDCall TICall TISN74LS86AN3OBSOLETEPDIPN14TBDCall TICall TISN74LS86AN4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg Type	SN74LS86AN	ACTIVE	PDIP	Ν	14	25		CU NIPDAU	N / A for Pkg Type
SN74LS86AN3OBSOLETEPDIPN14TBDCall TICall TISN74LS86AN3OBSOLETEPDIPN14TBDCall TICall TISN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS86ANE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg Type	SN74LS86AN	ACTIVE	PDIP	Ν	14	25		CU NIPDAU	N / A for Pkg Type
SN74LS86ANE4 ACTIVE PDIP N 14 25 Pb-Free (RoHS) CU NIPDAU N / A for Pkg Type   SN74LS86ANE4 ACTIVE PDIP N 14 25 Pb-Free (RoHS) CU NIPDAU N / A for Pkg Type (RoHS)	SN74LS86AN3	OBSOLETE	PDIP	Ν	14			Call TI	Call TI
(RoHS) SN74LS86ANE4 ACTIVE PDIP N 14 25 Pb-Free CU NIPDAU N / A for Pkg Type (RoHS)	SN74LS86AN3	OBSOLETE	PDIP	Ν	14		TBD	Call TI	Call TI
(RoHS)	SN74LS86ANE4	ACTIVE	PDIP	Ν	14	25		CU NIPDAU	N / A for Pkg Type
SN74LS86ANSR ACTIVE SO NS 14 2000 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM	SN74LS86ANE4	ACTIVE	PDIP	Ν	14	25		CU NIPDAU	N / A for Pkg Type
	SN74LS86ANSR	ACTIVE	SO	NS	14	2000	Green (RoHS &	CU NIPDAU	Level-1-260C-UNLIM

# PACKAGE OPTION ADDENDUM

12-Jan-2006

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>
						no Sb/Br)		
SN74LS86ANSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LS86ANSRE4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LS86ANSRE4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74S86D	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74S86D	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74S86DE4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74S86DE4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74S86DR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74S86DR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74S86DRE4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74S86DRE4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74S86N	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74S86N	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74S86N3	OBSOLETE	PDIP	Ν	14		TBD	Call TI	Call TI
SN74S86N3	OBSOLETE	PDIP	Ν	14		TBD	Call TI	Call TI
SN74S86NE4	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74S86NE4	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74S86NSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74S86NSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74S86NSRE4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74S86NSRE4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SNJ5486J	ACTIVE	CDIP	J	14	1	TBD	Call TI	N / A for Pkg Type
SNJ5486J	ACTIVE	CDIP	J	14	1	TBD	Call TI	N / A for Pkg Type
SNJ5486W	ACTIVE	CFP	W	14	1	TBD	Call TI	N / A for Pkg Type
SNJ5486W	ACTIVE	CFP	W	14	1	TBD	Call TI	N / A for Pkg Type
SNJ54LS86AFK	ACTIVE	LCCC	FK	20	1	TBD	Call TI	N / A for Pkg Type
SNJ54LS86AFK	ACTIVE	LCCC	FK	20	1	TBD	Call TI	N / A for Pkg Type
SNJ54LS86AJ	ACTIVE	CDIP	J	14	1	TBD	Call TI	N / A for Pkg Type
SNJ54LS86AJ	ACTIVE	CDIP	J	14	1	TBD	Call TI	N / A for Pkg Type



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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>
SNJ54LS86AW	ACTIVE	CFP	W	14	1	TBD	Call TI	N / A for Pkg Type
SNJ54LS86AW	ACTIVE	CFP	W	14	1	TBD	Call TI	N / A for Pkg Type
SNJ54S86FK	ACTIVE	LCCC	FK	20	1	TBD	Call TI	N / A for Pkg Type
SNJ54S86FK	ACTIVE	LCCC	FK	20	1	TBD	Call TI	N / A for Pkg Type
SNJ54S86J	ACTIVE	CDIP	J	14	1	TBD	Call TI	N / A for Pkg Type
SNJ54S86J	ACTIVE	CDIP	J	14	1	TBD	Call TI	N / A for Pkg Type
SNJ54S86W	ACTIVE	CFP	W	14	1	TBD	Call TI	N / A for Pkg Type
SNJ54S86W	ACTIVE	CFP	W	14	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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J (R-GDIP-T\*\*) 14 LEADS SHOWN

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-F14)

CERAMIC DUAL FLATPACK



- A. All linear dimensions are in inches (millimeters).
  - B. This drawing is subject to change without notice.
  - C. This package can be hermetically sealed with a ceramic lid using glass frit.
  - D. Index point is provided on cap for terminal identification only.
  - E. Falls within MIL STD 1835 GDFP1-F14 and JEDEC MO-092AB



MLCC006B - OCTOBER 1996

## 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



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.



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

## PLASTIC SMALL-OUTLINE PACKAGE

### 0,51 0,35 ⊕0,25⊛ 1,27 8 14 0,15 NOM 5,60 8,20 5,00 7,40 $\bigcirc$ Gage Plane ₽ 0,25 7 1 1,05 0,55 0°-10° Δ 0,15 0,05 Seating Plane — 2,00 MAX 0,10PINS \*\* 14 16 20 24 DIM 10,50 10,50 12,90 15,30 A MAX A MIN 9,90 9,90 12,30 14,70 4040062/C 03/03

NOTES: A. All linear dimensions are in millimeters.

NS (R-PDSO-G\*\*)

**14-PINS SHOWN** 

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15.



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