#### **SDLS100**

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

#### description

These devices contain four independent 2-input OR gates.

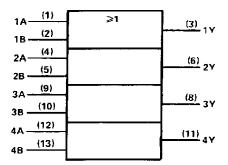
The SN5432, SN54LS32 and SN54S32 are characterized for operation over the full military range of -55°C to 125°C. The SN7432, SN74LS32 and SN74S32 are characterized for operation from 0°C to 70°C.

#### FUNCTION TABLE (each gate)

INP	UTS	OUTPUT
A	B	Ŷ
н	х	н
х	н	н
L	L	L

logic symbol<sup>†</sup>

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<sup>†</sup> This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12.

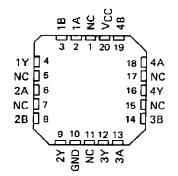
Pin numbers shown are for D. J. N. or W packages.

#### SN5432, SN54LS32, SN54S32, SN7432, SN74LS32, SN74S32 QUADRUPLE 2-INPUT POSITIVE-OR GATES DECEMBER 1983 - REVISED MARCH 1988

SN5432, SN54LS32, SN54S32 ... J OR W PACKAGE SN7432 . . . N PACKAGE SN74LS32, SN74S32 . . . D OR N PACKAGE (TOP VIEW)

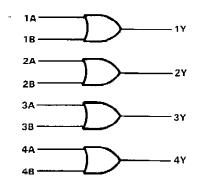
1A []1 1B []2 1Y []3 2A []4 2B []5	14 VCC 13 4B 12 4A 11 4Y 10 3B
2B 5 2Y 6	_
	8 3Y

SN54LS32, SN54S32 ... FK PACKAGE (TOP VIEW)



NC - No internal connection

logic diagram



positive logic

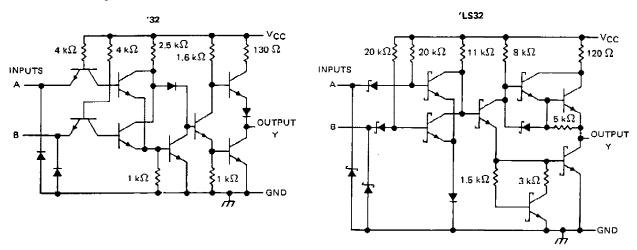
$$Y = A + B \text{ or } Y = \overline{A \cdot B}$$

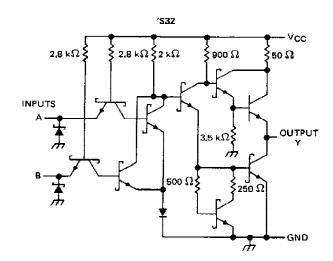
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### SN5432, SN54LS32, SN54S32, SN7432, SN74LS32, SN74S32 QUADRUPLE 2-INPUT POSITIVE-OR GATES

schematics (each gate)





Resistor values shown are nominal.

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

Supply voltage, VCC (see Note 1)	
Input voltage: '32, 'S32	5.5 V
′L\$32	
Operating free-air temperature: SN54'	
SN74′	0°C to 70°C
Storage temperature range	
NOTE 1: Voltage values are with respect to network ground terminal.	



#### recommended operating conditions

			SN5432			SN7432			
		MIN	NOM	MAX	MIN	NOM	MAX	UNIT	
Vcc	Supply voltage	4.5	5	5.5	4.75	5	5.25	v	
⊻ін	Hgh-level input voltage	2			2			V	
VIL	Low-level imput voltage			0.8			0,8	v	
юн	High-level output current			- 0.8			~ 0.8	mA	
IOL.	Low-level output current			16			16	mА	
TA	Operating free-air temperature	- 55		125	0		70	°C	

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

BARAMETER		TEST CONDIT			SN5432			SN7432		
PARAMETER					TYP‡	ΜΑΧ	MIN	TYP‡	MAX	UNIT
 VIK	VCC = MIN,	li = - 12 mA				- 1.5			- 1,5	v
V <sub>OH</sub>	V <sub>CC</sub> = MIN,	V <sub>IH</sub> ≈ 2 V,	I <sub>OH</sub> ≠ − 0.8 mA	2.4	3.4		2.4	3.4		V
VOL	V <sub>CC</sub> = MIN,	V <u>iL</u> ≈ 0.8 V,	IOL = 16 mA		0,2	0.4		0.2	0.4	V
Ц	V <sub>CC</sub> = MAX,	V1 = 5.5 V				1			1	mΑ
Цн	V <sub>CC</sub> = MAX,	V <sub>1</sub> = 2.4 V				40			40	μA
հե	V <sub>CC</sub> = MAX,	V <sub>1</sub> = 0.4 V				1.6			- 1.6	mΑ
OS§	VCC = MAX			- 20		- 55	- 18		- 55	mА
ІССН	V <sub>CC</sub> = MAX,	See Note 2			15	22		15	22	mA
	VCC * MAX,	V1 = 0 V			23	38		23	38	mA

† For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.
 ‡ All typical values are at V<sub>CC</sub> = 5 V, T<sub>A</sub> = 25°C.
 § Not more than one output should be shorted at a time.

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NOTE 2: One input at 4.5 V, all others at GND.

## switching characteristics, V<sub>CC</sub> = 5 V, T<sub>A</sub> = 25°C (see note 3)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	TEST CON	MIN	TYP	МАХ	UNIT	
TPLH	A or 8	×	R <sub>L</sub> = 400 Ω,	C. = 15 = 5		10	15	ris
<sup>t</sup> PHL	7018	· · · · · · · · · · · · · · · · · · ·	κ <u>ι</u> - 400 sz,	CL = 15 pF		14	22	ns

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



### SN54LS32, SN74LS32 QUADRUPLE 2 INPUT POSITIVE OR GATES

#### recommended operating conditions

			SN54LS32			SN74LS32			
		MIN	NOM	MAX	MIN	NOM	MAX	UNIT	
V <sub>CC</sub> Suppl	y voltage	4.5	5	5.5	4.75	5	5.25	V	
VIH Hgh-le	evel input voltage	2			2			V	
VIL Low-	evel input voltage			0.7			0.8	V	
OH High-I	level output current			- 0,4			- <b>D</b> .4	mĀ	
OL Low-I	evel output current			4			8	mΑ	
TA Opert	ating free-air temperature	- 55		125	0		70	°C	

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

					SN54LS	32		SN74LS	32	
PARAMETER	TEST CONDITIONS †			MIN	TYP\$	MAX	MIN	TYP‡	MAX	
Viĸ	V <sub>CC</sub> - MIN,	l <sub>1</sub> = 18 mA				- 1.5			- 1.5	v
∨он	VCC = MIN,	V <sub>IH</sub> = 2 V,	I <sub>OH</sub> = - 0.4 mA	2.5	3.4	•	2.7	3.4		V
14	VCC = MIN,	VIL = MAX,	10L = 4 mA		0.25	0.4		0.25	0.4	v
VOL	V <sub>CC</sub> = MIN,	V <sub>IL</sub> = MAX,	IOL = 8 mA					0.35	0.5	ľ v
1	V <sub>CC</sub> - MAX,	V <sub>1</sub> = 7 V				0.1			0.1	mA
- IH	VCC = MAX,	V <sub>I</sub> = 2.7 V			•	20			20	μA
IIL.	V <sub>CC</sub> = MAX,	VI = 0.4 V				- 0.4			- 0.4	mA
IOS§	VCC = MAX			- 20		- 100	- 20		- 100	mΑ
Іссн	V <sub>CC</sub> = MAX,	See Note 2			3.1	6.2		3.1	6.2	mA
ICCL	VCC = MAX,	V  = 0 V		l	4.9	9.8	I	4.9	9.8	mΑ

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

f 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 the duration of the short-circuit should not exceed one second. NOTE 2: One input at 4.5 V, all others at GND.

#### switching characteristics, $V_{CC} = 5 V$ , $T_A = 25^{\circ}C$ (see note 3)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	TEST CONDITIONS			түр	МАХ	UNIT
tPLH	1 az 0	V	<b>D</b> 010	0 - 15 -		14	22	пs
<sup>t</sup> PHL	A or B	T	$R_{L} = 2 k \Omega,$	CL = 15 pF		14	22	ns

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



#### recommended operating conditions

			SN5453	2		SN74S3	2	
		MIN	NOM	MAX	MIN	NOM	MAX	UNIT
Vcc	Supply voltage	4.5	5	5.5	4.75	5	5.25	v
Viн	High-level input voltage	2			2			v
VIL	Low-level input voltage			0.8			0.8	v
юн	High-level output current			1			- 1	mΑ
<sup>I</sup> OL	Low-level output current			20			20	mΑ
TA	Operating free-air temperature	- 55		125	0		70	°C

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

		TEST CONDIT			SN54S3	2				
PARAMETER		TEST CONDITIONS :		MIN	TYP ‡	MAX	MIN	TYP #	MAX	UNIT
VIK	VCC = MIN,	lj = — 18 mA				- 1.2			- 1.2	V
∨он	V <sub>CC</sub> = MIN,	V <sub>IH</sub> = 2 V,	10H = - 1 mA	2.5	3.4		2.7	3.4		V
VoL	VCC = MIN,	V <sub>IL</sub> = 0.8 V,	IOL = 20 mA			0.5			0.5	V
4	V <sub>CC</sub> = MAX,	V <sub>1</sub> = 5.5 V				1			1	mA
Чн	VCC = MAX,	V  = 2.7 V				50			50	μA
ΊL	V <sub>CC</sub> = MAX,	Vi = 0.5 V				- 2			- 2	MA
los§	V <sub>CC</sub> = MAX			- 40		— 1 <b>00</b>	- 40		- 100	mA
Іссн	V <sub>CC</sub> = MAX,	See Note 2			18	32		18	32	mA
ICCL	VCC = MAX,	V1 = 0 V			- 38	68		- 38	68	mA

2

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† For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions. ‡ All typical values are at  $V_{CC} = 5 \text{ V}$ ,  $T_A = 25^{\circ}\text{C}$ . § Not more than one output should be shorted at a time and the duration of the short-circuit should not exceed one second. NOTE 2: One input at 4.5 V, all others at GND.

switching characteristics, VCC = 5 V, TA =  $25^{\circ}$ C (see note 3)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	TEST CON	MIN TY	P MAX	UNIT	
tPLH		v	<b>D</b> = 200 O	C <sub>I</sub> = 15 pF		4 7	ns
tPHL	A or B		RL ≖ 280 Ω,			4 7	ns
tPLH	A or 8	v	Ri = 280 Ω,	CI = 50 pF		5	пs
<sup>t</sup> ₽HL			ni <b>100</b> 02,			5	ns

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



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Spe2-95574010CA         ACTIVE         CDIP         J         14         1         TED         A42         N / A for Pkg Type           S962-95574010DA         ACTIVE         CFP         W         14         1         TBD         A42         N / A for Pkg Type           JM3851030501B2A         ACTIVE         LCCC         FK         20         1         TBD         POST-PLATE         N / A for Pkg Type           JM3851030501B2A         ACTIVE         LCCC         FK         20         1         TBD         POST-PLATE         N / A for Pkg Type           JM3851030501BCA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           JM3851030501BCA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           JM3851030501BCA         ACTIVE         CFP         W         14         1         TBD         A42         N / A for Pkg Type           JM3851030501SCA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           JM3851030501SCA         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	n MSL Peak Temp <sup>(3)</sup>
SB82-9357401QDA         ACTIVE         CFP         W         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501B2A         ACTIVE         LCCC         FK         20         1         TBD         POST-PLATE         N / A for Pkg Type           JM38510/30501B2A         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           JM38510/30501BCA         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           JM38510/30501BDA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501BDA         ACTIVE         CFP         W         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SCA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SDA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SDA         ACTIVE         CDIP         J         14         1	5962-9557401QCA	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
JM38510/30501B2A         ACTIVE         LCCC         FK         20         1         TBD         POST-PLATE         N / A for Pkg Type           JM38510/30501B2A         ACTIVE         LCCC         FK         20         1         TBD         POST-PLATE         N / A for Pkg Type           JM38510/30501BCA         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           JM38510/30501BCA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501BCA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SCA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SDA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SDA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           SN5432J         ACTIVE         CDIP         J         14         1	5962-9557401QDA	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type
JM38510/30501B2A         ACTIVE         LCCC         FK         20         1         TBD         POST-PLATE         N / A for Pkg Type           JM38510/30501BCA         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           JM38510/30501BCA         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           JM38510/30501BCA         ACTIVE         CFP         W         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SCA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SCA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SDA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           SN5432J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN5432J         ACTIVE         CDIP         J         14         1         T	5962-9557401QDA	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type
JM38510/30501BCA         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           JM38510/30501BCA         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           JM38510/30501BDA         ACTIVE         CFP         W         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SCA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SCA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SCA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SDA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SDA         ACTIVE         CDIP         J         14         1         TBD         A42         SNPA         N / A for Pkg Type           SN5432J         ACTIVE         CDIP         J         14         1<	JM38510/30501B2A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type
JM38510/30501BCA         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           JM38510/30501BDA         ACTIVE         CFP         W         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501BDA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SCA         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           JM38510/30501SDA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SDA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           SN5432J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54S32J         ACTIVE         CDIP         J         14         1         TBD	JM38510/30501B2A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type
JM38510/30501BDA         ACTIVE         CFP         W         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501BDA         ACTIVE         CPP         W         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SCA         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           JM38510/30501SCA         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           JM38510/30501SDA         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54532J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54LS32J         ACTIVE         CDIP         J         14         1         TBD <td>JM38510/30501BCA</td> <td>ACTIVE</td> <td>CDIP</td> <td>J</td> <td>14</td> <td>1</td> <td>TBD</td> <td>A42 SNPB</td> <td>N / A for Pkg Type</td>	JM38510/30501BCA	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
JM38510/30501BDA         ACTIVE         CFP         W         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SCA         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           JM38510/30501SCA         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           JM38510/30501SDA         ACTIVE         CFP         W         14         1         TBD         A42 N / A for Pkg Type           JM38510/30501SDA         ACTIVE         CDIP         J         14         1         TBD         A42 N / A for Pkg Type           SN541232J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB N / A for Pkg Type           SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB N / A for Pkg Type           SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB N / A for Pkg Type           SN7432N         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB N / A for Pkg Type           SN7432N	JM38510/30501BCA	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
JM38510/30501SCA         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           JM38510/30501SCA         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           JM38510/30501SDA         ACTIVE         CFP         W         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SDA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           SN54L32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54S32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN7432N         ACTIVE         PDIP         N         14         25         Pb-Free	JM38510/30501BDA	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type
JM38510/30501SCA         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           JM38510/30501SDA         ACTIVE         CFP         W         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SDA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           SN5432J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN541S3J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN541S3J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54332J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54332J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN7432N         ACTIVE         PDIP         N         14         25         Pb-Free	JM38510/30501BDA	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type
JM38510/30501SDA         ACTIVE         CFP         W         14         1         TBD         A42         N / A for Pkg Type           JM38510/30501SDA         ACTIVE         CDIP         J         14         1         TBD         A42         N / A for Pkg Type           SN5432J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN5432J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54S32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN7432N         ACTIVE         PDIP         N         14         25         Pb-Free         CU NIPDAU         N / A for Pkg Type           SN7432N         ACTIVE         PDIP         N         14         25         Pb-Free         CU	JM38510/30501SCA	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
JM38510/30501SDA         ACTIVE         CFP         W         14         1         TBD         A42         N / A for Pkg Type           SN5432J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54S32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN7432N         ACTIVE         PDIP         N         14         25         Pb-Free         CU NIPDAU         N / A for Pkg Type           SN7432N3         OBSOLETE         PDIP         N         14         25         Pb-Free <td< td=""><td>JM38510/30501SCA</td><td>ACTIVE</td><td>CDIP</td><td>J</td><td>14</td><td>1</td><td>TBD</td><td>A42 SNPB</td><td>N / A for Pkg Type</td></td<>	JM38510/30501SCA	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
SN5432J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54123J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54S32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54S32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN7432N         ACTIVE         PDIP         N         14         25         Pb-Free         CU NIPDAU         N / A for Pkg Type           SN7432N3         OBSOLETE         PDIP         N         14         TBD         Call TI         Call TI           SN7432N64         ACTIVE         PDIP         N         14         25         Pb-Free         CU NIPDAU         N / A	JM38510/30501SDA	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type
SN5432J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54S32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN74S32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN7432N         ACTIVE         PDIP         N         14         25         Pb-Free         CU NIPDAU         N / A for Pkg Type           SN7432N3         OBSOLETE         PDIP         N         14         TBD         Call TI         Call TI           SN7432N4         ACTIVE         PDIP         N         14         TBD         Call TI         Call TI           SN7432N3         OBSOLETE         PDIP         N         14         25         Pb-Free         CU NIPDAU         N / A for Pkg Type	JM38510/30501SDA	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type
SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54S32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54S32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN7432N         ACTIVE         PDIP         N         14         25         Pb-Free         CU NIPDAU         N / A for Pkg Type           SN7432N3         OBSOLETE         PDIP         N         14         25         Pb-Free         CU NIPDAU         N / A for Pkg Type           SN7432N3         OBSOLETE         PDIP         N         14         TBD         Call TI         Call TI           SN7432N4         ACTIVE         PDIP         N         14         25         Pb-Free         CU NIPDAU         N / A for Pkg Type           SN7432NE4         ACTIVE         PDIP         N         14         25         Pb-Free         CU NIPDAU	SN5432J	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
SN54LS32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54S32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54S32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN7432N         ACTIVE         PDIP         N         14         25         Pb-Free (RoHS)         CU NIPDAU         N / A for Pkg Type           SN7432N         ACTIVE         PDIP         N         14         25         Pb-Free (RoHS)         CU NIPDAU         N / A for Pkg Type           SN7432N3         OBSOLETE         PDIP         N         14         TBD         Call TI         Call TI           SN7432N4         ACTIVE         PDIP         N         14         25         Pb-Free (RoHS)         CU NIPDAU         N / A for Pkg Type           SN7432NE4         ACTIVE         PDIP         N         14         25         Pb-Free (RoHS)         CU NIPDAU         N / A for Pkg Type           SN74LS32D         ACTIVE         SOIC         D         14         50         Green (RoHS	SN5432J	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
SN54S32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN54S32J         ACTIVE         CDIP         J         14         1         TBD         A42 SNPB         N / A for Pkg Type           SN7432N         ACTIVE         PDIP         N         14         25         Pb-Free (RoHS)         CU NIPDAU         N / A for Pkg Type           SN7432N         ACTIVE         PDIP         N         14         25         Pb-Free (RoHS)         CU NIPDAU         N / A for Pkg Type           SN7432N3         OBSOLETE         PDIP         N         14         TBD         Call TI         Call TI           SN7432N4         ACTIVE         PDIP         N         14         TBD         Call TI         Call TI           SN7432N4         ACTIVE         PDIP         N         14         25         Pb-Free (RoHS)         CU NIPDAU         N / A for Pkg Type           SN7432NE4         ACTIVE         PDIP         N         14         25         Pb-Free (RoHS)         CU NIPDAU         N / A for Pkg Type           SN74LS32D         ACTIVE         SOIC         D         14         50         Green (RoHS & CU NIPDAU         Lev	SN54LS32J	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
SN54S32.JACTIVECDIPJ141TBDA42 SNPBN / A for Pkg TypeSN7432NACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN7432NACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN7432N3OBSOLETEPDIPN1425Pb-Free (RoHS)Call TICall TISN7432N3OBSOLETEPDIPN14TBDCall TICall TISN7432N4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN7432NE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS32DACTIVESOICD1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS32DACTIVESOICD1450Green (RoHS & (RoHS)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRACTIVESSOPDB142000Green (RoHS & (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESOICD1450Green (RoH	SN54LS32J	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
SN7432NACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN7432NACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN7432N3OBSOLETEPDIPN14TBDCall TICall TICall TISN7432N3OBSOLETEPDIPN14TBDCall TICall TICall TISN7432N4ACTIVEPDIPN14TBDCall TICall TICall TISN7432NE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN7432NE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN741S32DACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRACTIVESSOPDB142000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS	SN54S32J	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
(RoHS)(RoHS)(RoHS)(RoHS)SN7432N1ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg Type (RoHS)SN7432N3OBSOLETEPDIPN14TBDCall TICall TISN7432N3OBSOLETEPDIPN14TBDCall TICall TISN7432N4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg Type (RoHS)SN7432NE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg Type (RoHS)SN74LS32DACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRACTIVESSOPDB142000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DE4ACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DE4ACTIVESOICD1450Green (ROHS & G	SN54S32J	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
(RoHS)(RoHS)(RoHS)SN7432N3OBSOLETEPDIPN14TBDCall TICall TISN7432N3OBSOLETEPDIPN14TBDCall TICall TISN7432NE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN7432NE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN741S32DACTIVESOICD1450Green (RoHS & on Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LS32DACTIVESOICD1450Green (RoHS & on Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LS32DBRACTIVESSOPDB142000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LS32DBRACTIVESSOPDB142000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DE4ACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DE4ACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM n	SN7432N	ACTIVE	PDIP	Ν	14	25		CU NIPDAU	N / A for Pkg Type
SN7432N3OBSOLETEPDIPN14TBDCall TICall TISN7432NE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN7432NE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN741232NE4ACTIVESOICD1425Pb-Free (RoHS)CU NIPDAULevel-1-260C-UNLIMSN74LS32DACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRACTIVESSOPDB142000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRACTIVESSOPDB142000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DE4ACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DE4ACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DE4ACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAU <td< td=""><td>SN7432N</td><td>ACTIVE</td><td>PDIP</td><td>Ν</td><td>14</td><td>25</td><td></td><td>CU NIPDAU</td><td>N / A for Pkg Type</td></td<>	SN7432N	ACTIVE	PDIP	Ν	14	25		CU NIPDAU	N / A for Pkg Type
SN7432NE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN7432NE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS32DACTIVESOICD1450Green (RoHS & or Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LS32DACTIVESOICD1450Green (RoHS & or Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LS32DBRACTIVESSOPDB142000Green (RoHS & or Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRACTIVESSOPDB142000Green (RoHS & or Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & or Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & or Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DE4ACTIVESOICD1450Green (RoHS & or Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DE4ACTIVESOICD1450Green (RoHS & or Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)	SN7432N3	OBSOLETE	PDIP	Ν	14		TBD	Call TI	Call TI
(RoHS)(RoHS)SN7432NE4ACTIVEPDIPN1425Pb-Free (RoHS)CU NIPDAUN / A for Pkg TypeSN74LS32DACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIMSN74LS32DACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIMSN74LS32DBRACTIVESSOPDB142000Green (RoHS & reen (RoHS & cU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LS32DBRACTIVESSOPDB142000Green (RoHS & reen (RoHS & cU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & reen (RoHS & cU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & reen (RoHS & cU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESOICD1450Green (RoHS & reen (RoHS & ro Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DE4ACTIVESOICD1450Green (RoHS & reen (RoHS & ro Sb/Br)CU NIPDAULevel-1-260C-UNLIM ro Sb/Br)	SN7432N3	OBSOLETE	PDIP	Ν	14		TBD	Call TI	Call TI
SN74LS32DACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LS32DACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIMSN74LS32DBRACTIVESSOPDB142000Green (RoHS & CU NIPDAULevel-1-260C-UNLIMSN74LS32DBRACTIVESSOPDB142000Green (RoHS & CU NIPDAULevel-1-260C-UNLIMSN74LS32DBRACTIVESSOPDB142000Green (RoHS & CU NIPDAULevel-1-260C-UNLIMSN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & CU NIPDAULevel-1-260C-UNLIMSN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & CU NIPDAULevel-1-260C-UNLIMSN74LS32DBRE4ACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIMSN74LS32DE4ACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM	SN7432NE4	ACTIVE	PDIP	Ν	14	25		CU NIPDAU	N / A for Pkg Type
SN74LS32DACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRACTIVESSOPDB142000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRACTIVESSOPDB142000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRACTIVESSOPDB142000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DE4ACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DE4ACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)	SN7432NE4	ACTIVE	PDIP	Ν	14	25		CU NIPDAU	N / A for Pkg Type
SN74LS32DBRACTIVESSOPDB142000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIMSN74LS32DBRACTIVESSOPDB142000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)SN74LS32DE4ACTIVESOICD1450Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)	SN74LS32D	ACTIVE	SOIC	D	14	50		CU NIPDAU	Level-1-260C-UNLIM
SN74LS32DBRACTIVESSOPDB142000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DBRE4ACTIVESSOPDB142000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DE4ACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)SN74LS32DE4ACTIVESOICD1450Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)	SN74LS32D	ACTIVE	SOIC	D	14	50	,	CU NIPDAU	Level-1-260C-UNLIM
Image: Normal state in the image: Normal sta	SN74LS32DBR	ACTIVE	SSOP	DB	14	2000		CU NIPDAU	Level-1-260C-UNLIM
Image: Normal system       ACTIVE       SSOP       DB       14       2000       Green (RoHS & CU NIPDAU       Level-1-260C-UNLIM no Sb/Br)         SN74LS32DE4       ACTIVE       SOIC       D       14       50       Green (RoHS & CU NIPDAU       Level-1-260C-UNLIM no Sb/Br)         SN74LS32DE4       ACTIVE       SOIC       D       14       50       Green (RoHS & CU NIPDAU       Level-1-260C-UNLIM no Sb/Br)         SN74LS32DE4       ACTIVE       SOIC       D       14       50       Green (RoHS & CU NIPDAU       Level-1-260C-UNLIM no Sb/Br)	SN74LS32DBR	ACTIVE	SSOP	DB	14	2000	(	CU NIPDAU	Level-1-260C-UNLIM
no Sb/Br)         SN74LS32DE4       ACTIVE       SOIC       D       14       50       Green (RoHS & CU NIPDAU       Level-1-260C-UNLIM no Sb/Br)         SN74LS32DE4       ACTIVE       SOIC       D       14       50       Green (RoHS & CU NIPDAU       Level-1-260C-UNLIM no Sb/Br)	SN74LS32DBRE4	ACTIVE	SSOP	DB	14	2000		CU NIPDAU	Level-1-260C-UNLIM
no Sb/Br) SN74LS32DE4 ACTIVE SOIC D 14 50 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM no Sb/Br)	SN74LS32DBRE4	ACTIVE	SSOP	DB	14	2000	· ·	CU NIPDAU	Level-1-260C-UNLIM
no Šb/Br)	SN74LS32DE4	ACTIVE	SOIC	D	14	50		CU NIPDAU	Level-1-260C-UNLIM
SN74LS32DG4 ACTIVE SOIC D 14 50 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM	SN74LS32DE4	ACTIVE	SOIC	D	14	50	· ·	CU NIPDAU	Level-1-260C-UNLIM
	SN74LS32DG4	ACTIVE	SOIC	D	14	50	Green (RoHS &	CU NIPDAU	Level-1-260C-UNLIM

# PACKAGE OPTION ADDENDUM

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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>(</sup>
						no Sb/Br)		
SN74LS32DG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIN
SN74LS32DR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIN
SN74LS32DR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIN
SN74LS32DRE4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIN
SN74LS32DRE4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIN
SN74LS32DRG4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLII
SN74LS32DRG4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLI
SN74LS32J	OBSOLETE	CDIP	J	14		TBD	Call TI	Call TI
SN74LS32J	OBSOLETE	CDIP	J	14		TBD	Call TI	Call TI
SN74LS32N	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74LS32N	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74LS32N3	OBSOLETE	PDIP	Ν	14		TBD	Call TI	Call TI
SN74LS32N3	OBSOLETE	PDIP	Ν	14		TBD	Call TI	Call TI
SN74LS32NE4	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74LS32NE4	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74LS32NSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLI
SN74LS32NSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLI
SN74LS32NSRG4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLI
SN74LS32NSRG4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLI
SN74S32D	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLI
SN74S32D	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLI
SN74S32DE4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLI
SN74S32DE4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLI
SN74S32DG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLI
SN74S32DG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLI
SN74S32DR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLI
SN74S32DR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLI

# PACKAGE OPTION ADDENDUM

**TEXAS** *RUMENTS* www.ti.com

23-Apr-2007

Orderable Device	Status <sup>(1)</sup>	Package Type	Package Drawing	Pins	Packag Qty	e Eco Plan <sup>(2)</sup>	Lead/Ball Finish	n MSL Peak Temp <sup>(3</sup>
SN74S32DRE4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74S32DRE4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74S32DRG4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74S32DRG4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74S32N	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74S32N	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74S32N3	OBSOLETE	PDIP	Ν	14		TBD	Call TI	Call TI
SN74S32N3	OBSOLETE	PDIP	Ν	14		TBD	Call TI	Call TI
SN74S32NE4	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74S32NE4	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74S32NSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIN
SN74S32NSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIN
SN74S32NSRE4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIN
SN74S32NSRE4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIN
SNJ5432J	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
SNJ5432J	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
SNJ5432W	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type
SNJ5432W	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type
SNJ54LS32FK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type
SNJ54LS32FK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type
SNJ54LS32J	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
SNJ54LS32J	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
SNJ54LS32W	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type
SNJ54LS32W	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type
SNJ54S32FK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type
SNJ54S32FK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type
SNJ54S32J	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
SNJ54S32J	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
SNJ54S32W	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type
SNJ54S32W	ACTIVE	CFP	W	14	1	TBD	A42	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)

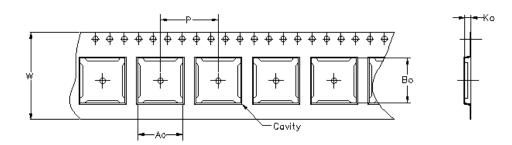
<sup>(3)</sup> MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

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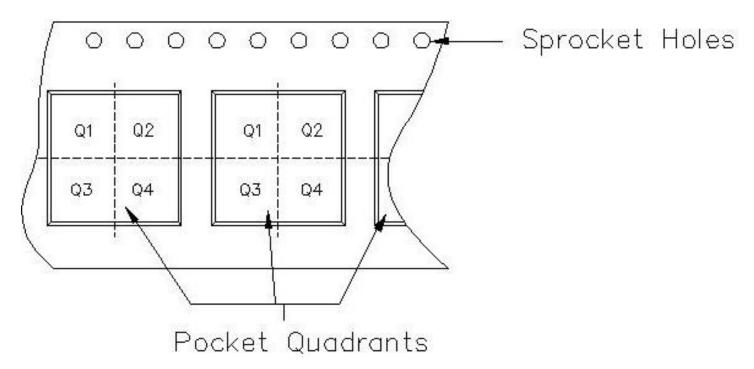


30-Apr-2007



Carrier tape design is defined largely by the component lentgh, width, and thickness.

Ao = Dimension designed to accommodate the component width.										
Bo = Dimension designed to accommodate the component length.										
Ko = Dimension designed to accommodate the component thickness.										
W = Overall width of the carrier tape.										
P = Pitch between successive cavity centers.										



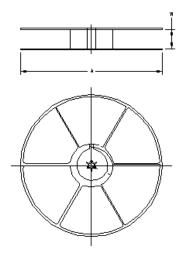
TAPE AND REEL INFORMATION

# PACKAGE MATERIALS INFORMATION



30-Apr-2007

Device	Package	Pins	Site	Reel Diameter (mm)	Reel Width (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74LS32DBR	DB	14	MLA	330	16	8.2	6.6	2.5	12	16	Q1
SN74LS32DR	D	14	MLA	330	16	6.5	9.0	2.1	8	16	Q1
SN74LS32NSR	NS	14	MLA	330	16	8.2	10.5	2.5	12	16	Q1
SN74S32DR	D	14	MLA	330	16	6.5	9.0	2.1	8	16	Q1
SN74S32NSR	NS	14	MLA	330	16	8.2	10.5	2.5	12	16	Q1



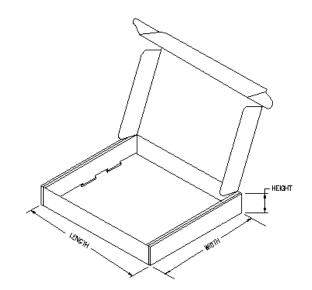
## TAPE AND REEL BOX INFORMATION

Device	Package	Pins	Site	Length (mm)	Width (mm)	Height (mm)
SN74LS32DBR	DB	14	MLA	333.2	333.2	28.58
SN74LS32DR	D	14	MLA	333.2	333.2	28.58
SN74LS32NSR	NS	14	MLA	333.2	333.2	28.58
SN74S32DR	D	14	MLA	333.2	333.2	28.58
SN74S32NSR	NS	14	MLA	333.2	333.2	28.58



# PACKAGE MATERIALS INFORMATION

30-Apr-2007



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.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed .006 (0,15) per end.

Body width does not include interlead flash. Interlead flash shall not exceed .017 (0,43) per side.

E. Reference 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.



## **MECHANICAL DATA**

MSSO002E - JANUARY 1995 - REVISED DECEMBER 2001

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

PLASTIC SMALL-OUTLINE

28 PINS SHOWN



NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion not to exceed 0,15.
- D. Falls within JEDEC MO-150



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