### SN5423, SN5425, SN7423, SN7425 DUAL 4-INPUT NOR GATES WITH STROBE

### SDLS082

#### DECEMBER 1983-REVISED MARCH 1988

- Package Options Include Plastic and Ceramic DIPs and Ceramic Flat Packages
- Dependable Texas Instruments Quality and Reliability

### description

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These devices contain dual 4-input positive NOR gates with strobe. They perform the Boolean function;

 $Y = \overline{G(A + B + C + D)}$ (with 1X and 1 $\overline{X}$  of '23 left open).

The SN5423 and the SN5425 are characterized for operation over the full military temperature range of -55 °C to 125 °C. The SN7423 and the SN7425 are characterized for operation from 0 °C to 70 °C.

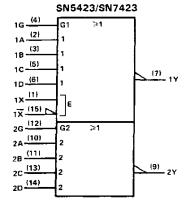
#### FUNCTION TABLE

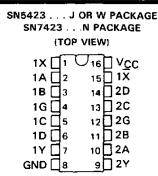
	IP	NPU1	S		OUTPUT
A	B	С	D	G	Y
н	х	x	x	н	L
×	н	х	х	н	L
×	х	н	х	н	L
x	х	х	н	н	L
L	L	L	L	x	н
×	x	x	х	L	н

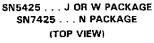
Expander inputs are open,

H = high level, L = low level, X = irrelevant

#### logic symbols<sup>†</sup>

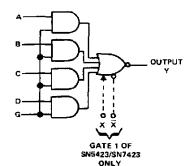


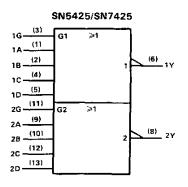




1A [ 1B [ 1G [ 1C [ 1D [	1 2 3 4 5	U 140 VCC 130 2D 120 2C 110 2G 100 2B
1D 🗋	5	10 2B
1Y 🗋	6	9 🗋 2 A
	7	8 2Y

#### logic diagram



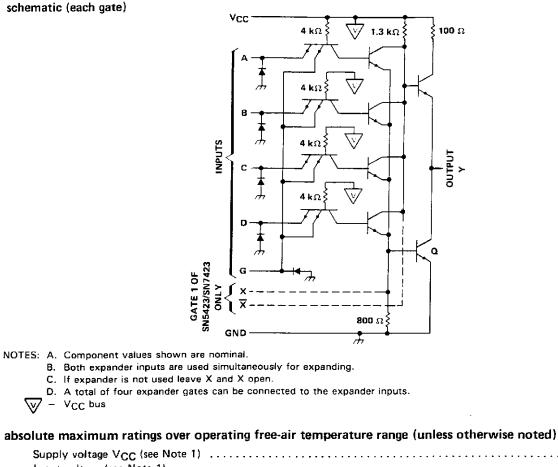


<sup>†</sup>These symbols are in accordance with ANSI/IEEE Std. 91-1984 and IEC Publication 617-12. Pin numbers are for J, N, or W packages.

PRODUCTION DATA documents contain information 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.



## SN5423, SN5425, SN7423, SNSN7425 DUAL 4-INPUT NOR GATES WITH STROBE



Supply voltage V <sub>CC</sub> (see Note 1)	
Input voltage (see Note 1)	5.5 V
Interemitter voltage (see Note 2)	
Operating free-air temperature range: SN5423, SN5425 Circuits	
SN7423, SN7425 Circuits	
Storage temperature range	– 65°C to 150°C

NOTES: 1. Voltage values, except interemitter voltage, are with respect to network ground terminal. 2. This is the voltage between two emitters of a multiple-emitter transistor.

#### recommended operating conditions

			<b>'2</b> 3, '25			UNIT
			MIN	NOM	MAX	UNIT
		54 Family	4.5	5	5.5	v
Vcc	Supply voltage	74 Family	4.75	5	5.25	
⊻ін	High-level input voltage		2			V
VIL	Low-level input voltage				0.8	v
ЮН	High-level output current				- 0.8	mΑ
		54 Family			16	mА
IOL	Low-level output current	74 Family			16	ША
_		54 Family	- 55		125	°c
Τ <sub>Α</sub>	Operating free-air temperature range	74 Family	0		70	

The '23 is designed for use with up to four '60 expanders.



## SN5423, SN5425, SN7423, SN7425 **DUAL 4 INPUT NOR GATES WITH STROBE**

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

PAR	AMETER		TEST CO	NDITIONS		MIN	түр‡	MAX	UNIT
VI		V <sub>CC</sub> = MIN,	lı = — 12 mA					- 1.5	v v
√он		V <sub>CC</sub> = MIN,	V <sub>IL</sub> = 0.8 V,	I <sub>OH</sub> = - 0.8 mA		2.4	3.4		V
VOL		V <sub>CC</sub> = MIN,	V <sub>1H</sub> = 2 V,	I <sub>OL</sub> = 16 mA			0.2	0.4	V
<u> </u>		V <sub>CC</sub> = MAX,	Vi = 5.5 V					1	mA
	data inputs	Vcc = MAX,	/cc = MAX, Vi = 2.4 V					40	ДД
ЧI	strobe inputs	VCC - MAA,	v -2.4 v					160	<u> </u>
	data inputs	Vcc = MAX,	$\mathbf{V}_{1} = 0 \mathbf{A} \mathbf{V}_{2}$					1.6	mA
4L	strobe inputs	*CC - MAA,	vi - 0.4 v					- 6.4	
	<u> </u>				54 Family	- 20		- 55	
los§		V <sub>CC</sub> = MAX			74 Family	- 18		- 55	mA
ссн		V <sub>CC</sub> = MAX,	All inputs at 0	v			8	16	mA
ICCL		V <sub>CC</sub> = MAX,	All inputs at 5	V			10	19	mΑ

<sup>†</sup> For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions for the applicable device type. Expander inputs X and  $\overline{X}$  are open.

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‡ 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.

## electrical characteristics (SN5423 circuits) using expander inputs, V<sub>CC</sub> = 4.5 V, T<sub>A</sub> = $-55^{\circ}$ C

	PARAMETER	TEST	CONDITIONS	····	MIN	TYPT	MAX	UNIT
 ۲	Expander current	V <sub>X</sub> <del>x</del> = 0.4 V,	IOL = 16 mA				- 3.5	mA
VBE(Q)	Base-Emitter voltage of output transistor (Q)	I <sub>OL</sub> = 16 mA,	IX + IX = 0.41 mA,	$R_{X\overline{X}} = 0$			1.1	v
Voн	High-level output voltage	1 <sub>OH</sub> = - 0.4 mA,	Ix = 0.15 mA,	Ix = − 0.15 mA	2.4	3.4		V
VOL	Low-level output voltage	I <sub>OL</sub> = 16 mA,	lχ + lχ = 0.3 mA,	R <sub>X</sub> <del>x</del> <del>z</del> <del>z</del> <del>π</del>		0.2	0.4	V

# electrical characteristics (SN7423 circuits) using expander inputs, V<sub>CC</sub> = 4.75 V, T<sub>A</sub> = $0^{\circ}$ C

	PARAMETER	TEST	CONDITIONS		MIN	TYPT	MAX	UNIT
17	Expander current	Vxx = 0.4 ∨,	1 <sub>0L</sub> = 16 mA				- 3.8	mΑ
VBE(Q)	Base-Emitter voltage of output transistor (Q)	I <sub>OL</sub> = 16 mA,	IX + IX = 0.62 mA,	$R_X \overline{X} = 0$			1	v
	High-level output voltage	l <sub>OH</sub> = 0.4 mA,	Iχ = 0.27 mA,	1 <del>x</del> = - 0.27 mA	2.4	3.4		v
VOL	Low-level output voltage	l <sub>OL</sub> = 16 mA,	$1\chi + 1\chi = 0.43 \text{ mA},$	Ħχ <b>ズ</b> = 130 Ω		0.2	0.4	V

† All typical values are at  $V_{CC}$  = 5 V,  $T_A$  = 25°C.

### switching characteristics, V<sub>CC</sub> = 5 V, T<sub>A</sub> = $25^{\circ}$ C, N = 10, (see note 3)

PARAMETER	TEST CONDITIONS	MIN TYP	MAX	UNIT
<sup>t</sup> PLH	$R_{L} = 400 \ \Omega,$ $C_{L} = 15 \ pF$	13	22	nş
<sup>t</sup> PHL	$R_{L} = 400 \Omega,$ $C_{L} = 15 \rho F$	8	15	ns

NOTE 3: Switching characteristics of the SN5423 and SN7424 are tested with the expander pins open.



6-Dec-2006

### **PACKAGING INFORMATION**

Orderable Device	Status <sup>(1)</sup>	Package Type	Package Drawing	Pins	Package Qty	Eco Plan <sup>(2)</sup>	Lead/Ball Finis	h MSL Peak Temp <sup>(3)</sup>
5962-9763601QEA	ACTIVE	CDIP	J	16	1	TBD	A42 SNPB	N / A for Pkg Type
JM38510/00403BCA	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
JM38510/00403BCA	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
SN5423J	ACTIVE	CDIP	J	16	1	TBD	A42 SNPB	N / A for Pkg Type
SN5423J	ACTIVE	CDIP	J	16	1	TBD	A42 SNPB	N / A for Pkg Type
SN5425J	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
SN5425J	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
SN7423N	OBSOLETE	PDIP	Ν	16		TBD	Call TI	Call TI
SN7423N	OBSOLETE	PDIP	Ν	16		TBD	Call TI	Call TI
SN7425N	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN7425N	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN7425N3	OBSOLETE	PDIP	Ν	14		TBD	Call TI	Call TI
SN7425N3	OBSOLETE	PDIP	Ν	14		TBD	Call TI	Call TI
SN7425NE4	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN7425NE4	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SNJ5423J	ACTIVE	CDIP	J	16	1	TBD	A42 SNPB	N / A for Pkg Type
SNJ5423J	ACTIVE	CDIP	J	16	1	TBD	A42 SNPB	N / A for Pkg Type
SNJ5423W	OBSOLETE			16		TBD	Call TI	Call TI
SNJ5423W	OBSOLETE			16		TBD	Call TI	Call TI
SNJ5425J	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
SNJ5425J	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
SNJ5425W	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type
SNJ5425W	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



# PACKAGE OPTION ADDENDUM

6-Dec-2006

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



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# 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.



9-Oct-2007

## **PACKAGING INFORMATION**

JMENTS

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SN7425N	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN7425N3	OBSOLETE	PDIP	Ν	14		TBD	Call TI	Call TI
SN7425N3	OBSOLETE	PDIP	Ν	14		TBD	Call TI	Call TI
SN7425NE4	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN7425NE4	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
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SNJ5423J	ACTIVE	CDIP	J	16	1	TBD	A42 SNPB	N / A for Pkg Type
SNJ5423W	OBSOLETE			16		TBD	Call TI	Call TI
SNJ5423W	OBSOLETE			16		TBD	Call TI	Call TI
SNJ5425J	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
SNJ5425J	ACTIVE	CDIP	J	14	1	TBD	A42 SNPB	N / A for Pkg Type
SNJ5425W	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type
SNJ5425W	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type

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# PACKAGE OPTION ADDENDUM

9-Oct-2007

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



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  - D. Index point is provided on cap for terminal identification only.
  - E. Falls within MIL STD 1835 GDFP1-F14 and JEDEC MO-092AB



# 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.



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Power Mgmt	power.ti.com	Optical Networking	www.ti.com/opticalnetwork
Microcontrollers	microcontroller.ti.com	Security	www.ti.com/security
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