SDLS032G - DECEMBER 1983 - REVISED MAY 2004

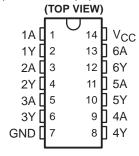
- Convert TTL Voltage Levels to MOS Levels
- High Sink-Current Capability
- Input Clamping Diodes Simplify System Design
- Open-Collector Driver for Indicator Lamps and Relays
- Inputs Fully Compatible With Most TTL Circuits

description/ordering information

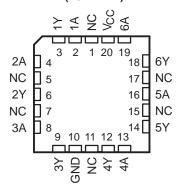
These TTL hex buffers/drivers feature high-voltage open-collector outputs for interfacing with high-level circuits (such as MOS) or for driving high-current loads (such as lamps or relays) and also are characterized for use as buffers for driving TTL inputs. The SN5407 and SN7407 have minimum breakdown voltages of 30 V, and the SN5417 and SN7417 have minimum breakdown voltages of 15 V. The maximum sink current is 30 mA for the SN5407 and SN5417 and 40 mA for the SN7407 and SN7417.

These devices perform the Boolean function Y = A in positive logic.

SN5407, SN5417 . . . J OR W PACKAGE SN7407, SN7417 . . . D, N, OR NS PACKAGE



SN5407 . . . FK PACKAGE (TOP VIEW)



NC - No internal connection

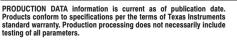
ORDERING INFORMATION

TA	PAC	KAGE†	ORDERABLE PART NUMBER	TOP-SIDE MARKING						
		Tube	SN7407D	7407						
	0010 0	Tape and reel	SN7407DR	7407						
	SOIC - D	Tube	SN7417D	7447						
0°C to 70°C		Tape and reel	SN7417DR	7417						
	DDID 11	- .	SN7407N	SN7407N						
	PDIP – N	Tube	SN7417N	SN7417N						
	000 NO	T	SN7407NSR	SN7407						
	SOP – NS	Tape and reel	SN7417NSR	SN7417						
	ODID I	T. J	SNJ5407J	SNJ5407J						
5500 / 40500	CDIP – J	Tube	SNJ5417J	SNJ5417J						
–55°C to 125°C	CFP – W	Tube	SNJ5407W	SNJ5407W						
	LCCC - FK	Tube	SNJ5407FK	SNJ5407FK						

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



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.





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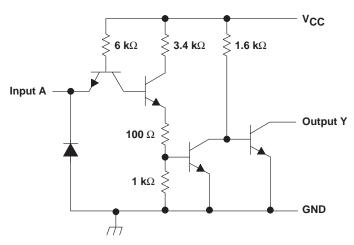
description/ordering information (continued)

These circuits are completely compatible with most TTL families. Inputs are diode clamped to minimize transmission-line effects, which simplifies design. Typical power dissipation is 145 mW, and average propagation delay time is 14 ns.

logic diagram, each buffer/driver (positive logic)



schematic



Resistor values shown are nominal.

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

Supply voltage, V _{CC}	7 V
Input voltage, V _I (see Note 1)	5.5 V
Output voltage, VO (see Notes 1 and 2): SN5407, SN7407	30 V
SN5417, SN7417	15 V
Package thermal impedance, θ _{JA} (see Note 3): D package	86°C/W
N package	80°C/W
NS package	76°C/W
Storage temperature range, T _{stg}	65°C to 150°C

[†] Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

- NOTES: 1. All voltage values are with respect to GND.
 - 2. This is the maximum voltage that should be applied to any output when it is in the off state.
 - 3. The package thermal impedance is calculated in accordance with JESD 51-7.



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recommended operating conditions (see Note 4)

			MIN	NOM	MAX	UNIT	
\/ C:		SN5407, SN5417	4.5	5	5.5		
VCC	Supply voltage	SN7407, SN7417	4.75	5	5.25	٧	
٧ _{IH}	High-level input voltage		2			V	
V _{IL}	Low-level input voltage				8.0	V	
.,	I Park Toward and and analysis	SN5407, SN7407			30		
VOH	High-level output voltage	SN5417, SN7417			15	V	
	Landard ordered comment	SN5407, SN5417			30	4	
lOL	Low-level output current	SN7407, SN7417			40	mA	
_	On and the first state of the same and the	SN5407, SN5417	-55		125	00	
TA	Operating free-air temperature	SN7407, SN7417	0		70	°C	

NOTE 4: All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation. Refer to the TI application report, Implications of Slow or Floating CMOS Inputs, literature number SCBA004.

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

PARAMETER		TEST CO	MIN	TYP‡	MAX	UNIT	
VIK	V _{CC} = MIN,	$I_I = -12 \text{ mA}$				-1.5	V
	N/ MINI		V _{OH} = 30 V (SN5407, SN7407)			0.25	4
ЮН	$V_{CC} = MIN,$	V _{IH} = 2 V	V _{OH} = 15 V (SN5417, SN7417)			0.25	mA
			I _{OL} = 16 mA			0.4	
V _{OL}	$V_{CC} = MIN,$	$V_{IL} = 0.8 \ V$	I _{OL} = 30 mA (SN5407, SN5417)			0.7	V
			I _{OL} = 40 mA (SN7407, SN7417)			0.7	
lį	$V_{CC} = MAX$,	V _I = 5.5 V				1	mA
lН	$V_{CC} = MAX$,	V _{IH} = 2.4 V				40	μΑ
I _{IL}	$V_{CC} = MAX$,	$V_{IL} = 0.4 V$				-1.6	mA
Iссн	$V_{CC} = MAX$				29	41	mA
^I CCL	$V_{CC} = MAX$	•			21	30	mA

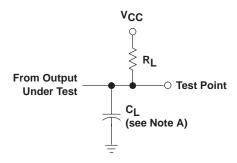
[†] For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

switching characteristics, V_{CC} = 5 V, T_A = 25°C (see Figure 1)

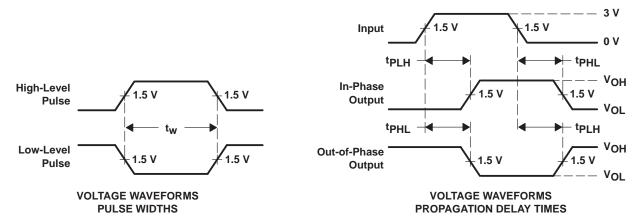
PARAMETER	FROM (INPUT)	TO (OUTPUT)	TEST CONDITIONS	MIN	TYP	MAX	UNIT
^t PLH		V	D 4400 0 45 "E		6	10	
t _{PHL}	А	Y	$R_L = 110 \Omega$, $C_L = 15 pF$		20	30	ns
^t PLH		V	D: 450.0 C: 50.5			15	
t _{PHL}	A	Y	$R_L = 150 \Omega$, $C_L = 50 pF$			26	ns

[‡] All typical values are at $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$.

PARAMETER MEASUREMENT INFORMATION



LOAD CIRCUIT



NOTES: A. C_L includes probe and jig capacitance.

- B. In the examples above, the phase relationships between inputs and outputs have been chosen arbitrarily.
- C. All input pulses are supplied by generators having the following characteristics: PRR \leq 1 MHz, $Z_Q = 50 \ \Omega$, $t_f \leq 7 \ \text{ns}$, $t_f \leq 7 \ \text{ns}$.
- D. The outputs are measured one at a time, with one input transition per measurement.

Figure 1. Load Circuit and Voltage Waveforms







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PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
JM38510/00803BCA	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	-55 to 125	JM38510/ 00803BCA	Sample
JM38510/00803BDA	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type	-55 to 125	JM38510/ 00803BDA	Samples
M38510/00803BCA	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	-55 to 125	JM38510/ 00803BCA	Sample
M38510/00803BDA	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type	-55 to 125	JM38510/ 00803BDA	Sample
SN5407J	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	-55 to 125	SN5407J	Sample
SN5417J	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	-55 to 125	SN5417J	Sample
SN7407D	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	7407	Sample
SN7407DE4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	7407	Sample
SN7407DG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	7407	Sample
SN7407DR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	7407	Sample
SN7407DRE4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	7407	Sample
SN7407DRG4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	7407	Sample
SN7407J	OBSOLETE	CDIP	J	14		TBD	Call TI	Call TI	0 to 70		
SN7407N	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN7407N	Sample
SN7407N3	OBSOLETE	PDIP	N	14		TBD	Call TI	Call TI	0 to 70		
SN7407NE4	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN7407N	Sample
SN7407NSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SN7407	Sample
SN7407NSRE4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SN7407	Sample



PACKAGE OPTION ADDENDUM



31-May-2014

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
SN7407NSRG4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SN7407	Samples
SN7417D	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	7417	Samples
SN7417DE4	ACTIVE	SOIC	D	14		TBD	Call TI	Call TI	0 to 70		Samples
SN7417DG4	ACTIVE	SOIC	D	14		TBD	Call TI	Call TI	0 to 70		Samples
SN7417DR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	7417	Samples
SN7417DRE4	ACTIVE	SOIC	D	14		TBD	Call TI	Call TI	0 to 70		Samples
SN7417DRG4	ACTIVE	SOIC	D	14		TBD	Call TI	Call TI	0 to 70		Samples
SN7417N	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN7417N	Samples
SN7417N3	OBSOLETE	PDIP	N	14		TBD	Call TI	Call TI	0 to 70		
SN7417NE4	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN7417N	Samples
SNJ5407FK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	SNJ5407FK	Samples
SNJ5407J	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	-55 to 125	SNJ5407J	Samples
SNJ5407W	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type	-55 to 125	SNJ5407W	Samples
SNJ5417J	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	-55 to 125	SNJ5417J	Samples

⁽¹⁾ 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.

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.

⁽²⁾ 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.





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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

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)

- (3) MSL, Peak Temp. The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.
- (4) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.
- (5) Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.
- (6) Lead/Ball Finish Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead/Ball Finish values may wrap to two lines if the finish value exceeds the maximum column width.

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OTHER QUALIFIED VERSIONS OF SN5407, SN5417, SN7407, SN7417:

Catalog: SN7407, SN7417

Military: SN5407, SN5417

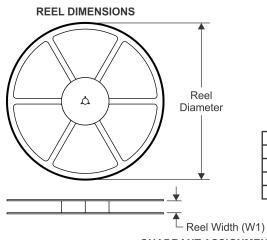
NOTE: Qualified Version Definitions:

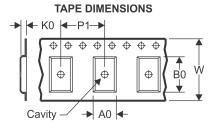
- Catalog TI's standard catalog product
- Military QML certified for Military and Defense Applications

PACKAGE MATERIALS INFORMATION

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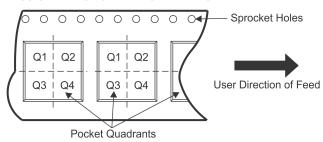
TAPE AND REEL INFORMATION





	Dimension designed to accommodate the component width
B0	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

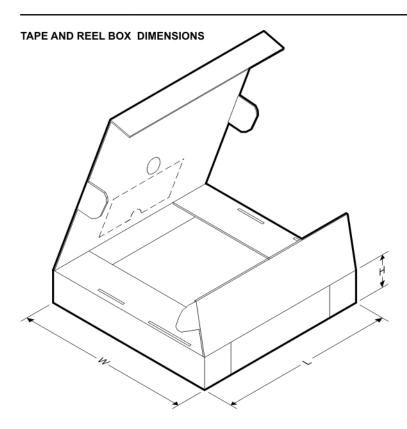
QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

All ullilerisions are nominal												
Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN7407DR	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
SN7407DR	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
SN7407NSR	so	NS	14	2000	330.0	16.4	8.2	10.5	2.5	12.0	16.0	Q1
SN7417DR	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1

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*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN7407DR	SOIC	D	14	2500	367.0	367.0	38.0
SN7407DR	SOIC	D	14	2500	333.2	345.9	28.6
SN7407NSR	SO	NS	14	2000	367.0	367.0	38.0
SN7417DR	SOIC	D	14	2500	367.0	367.0	38.0

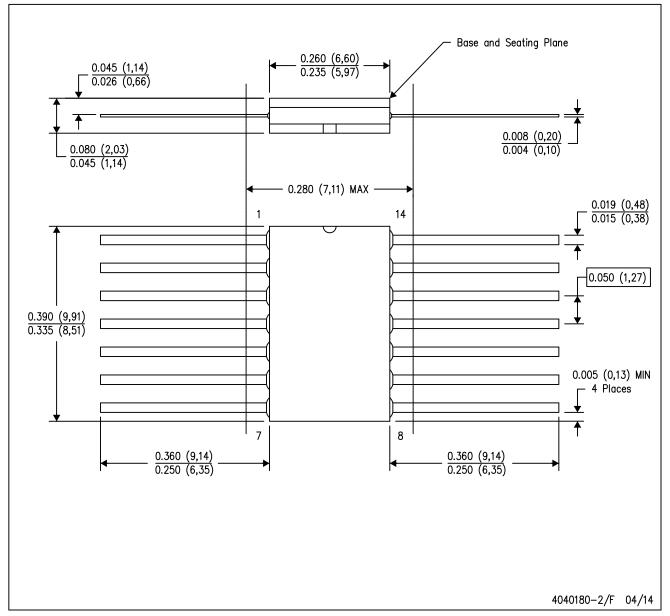
14 LEADS SHOWN



- 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



FK (S-CQCC-N**)

LEADLESS CERAMIC CHIP CARRIER

28 TERMINAL SHOWN



- 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. Falls within JEDEC MS-004



N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.



D (R-PDSO-G14)

PLASTIC SMALL OUTLINE



- 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 0.006 (0,15) each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0.017 (0,43) each side.
- E. Reference JEDEC MS-012 variation AB.



D (R-PDSO-G14)

PLASTIC SMALL OUTLINE



- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 is recommended for alternate designs.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



MECHANICAL DATA

NS (R-PDSO-G**)

14-PINS SHOWN

PLASTIC SMALL-OUTLINE PACKAGE



- 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.



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DSP **Energy and Lighting** dsp.ti.com www.ti.com/energy Clocks and Timers www.ti.com/clocks Industrial www.ti.com/industrial Interface interface.ti.com Medical www.ti.com/medical logic.ti.com Logic Security www.ti.com/security

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