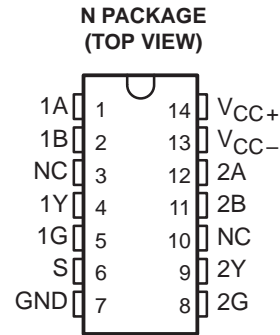


# SN75207B DUAL SENSE AMPLIFIER FOR MOS MEMORIES OR DUAL HIGH-SENSITIVITY LINE RECEIVERS

SLLS096C – JULY 1973 – REVISED MARCH 1997

- Plug-In Replacement for SN75107A and SN75107B With Improved Characteristics
- $\pm 10$ -mV Input Sensitivity
- TTL-Compatible Circuitry
- Standard Supply Voltages . . .  $\pm 5$  V
- Differential Input Common-Mode Voltage Range of  $\pm 3$  V
- Strobe Inputs for Channel Selection
- Totem-Pole Outputs
- SN75207B Has Diode-Protected Input Stage for Power-Off Condition
- Sense Amplifier for MOS Memories
- Dual Comparator
- High-Sensitivity Line Receiver

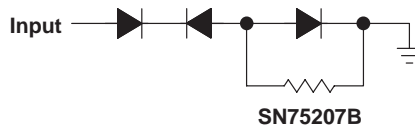


NC – No internal connection

## description

The SN75207B is a terminal-for-terminal replacement for the SN75107B. The improved input sensitivity makes it more suitable for MOS memory sense amplifiers and can result in faster memory cycles. Improved sensitivity also makes it more useful in line-receiver applications by allowing use of longer transmission line lengths. The SN75207B features a TTL-compatible, active-pullup output.

Input protection diodes are in series with the collectors of the differential-input transistors of the SN75207B. These diodes are useful in certain party-line systems that may have multiple  $V_{CC+}$  power supplies and may be operated with some of the  $V_{CC+}$  supplies turned off. In such a system, if a supply is turned off and allowed to go to ground, the equivalent input circuit connected to that supply would be as follows:



This would be a problem in specific systems that might have the transmission lines biased to some potential greater than 1.4 V.

This device is characterized for operation from 0°C to 70°C.

**FUNCTION TABLE**

DIFFERENTIAL INPUTS A-B	STROBES		OUTPUT Y
	G	S	
$V_{ID} \geq 10$ mV	X	X	H
$-10$ mV $< V_{ID} < 10$ mV	X	L	H
	L	X	H
$V_{ID} \leq -10$ mV	H	H	Indeterminate
	X	L	H
	L	X	H
	H	H	L

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



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**TEXAS  
INSTRUMENTS**

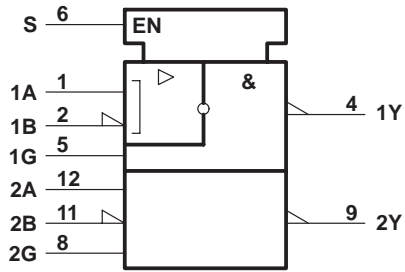
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# SN75207B DUAL SENSE AMPLIFIER FOR MOS MEMORIES OR DUAL HIGH-SENSITIVITY LINE RECEIVERS

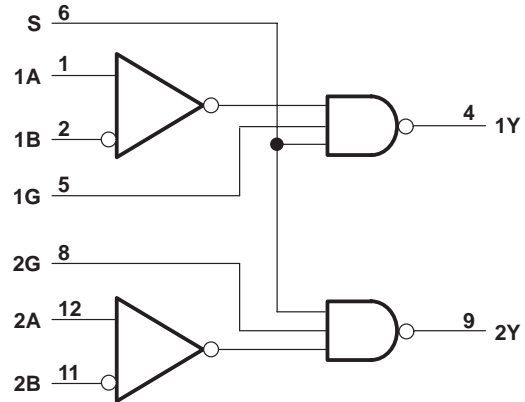
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## logic symbol†

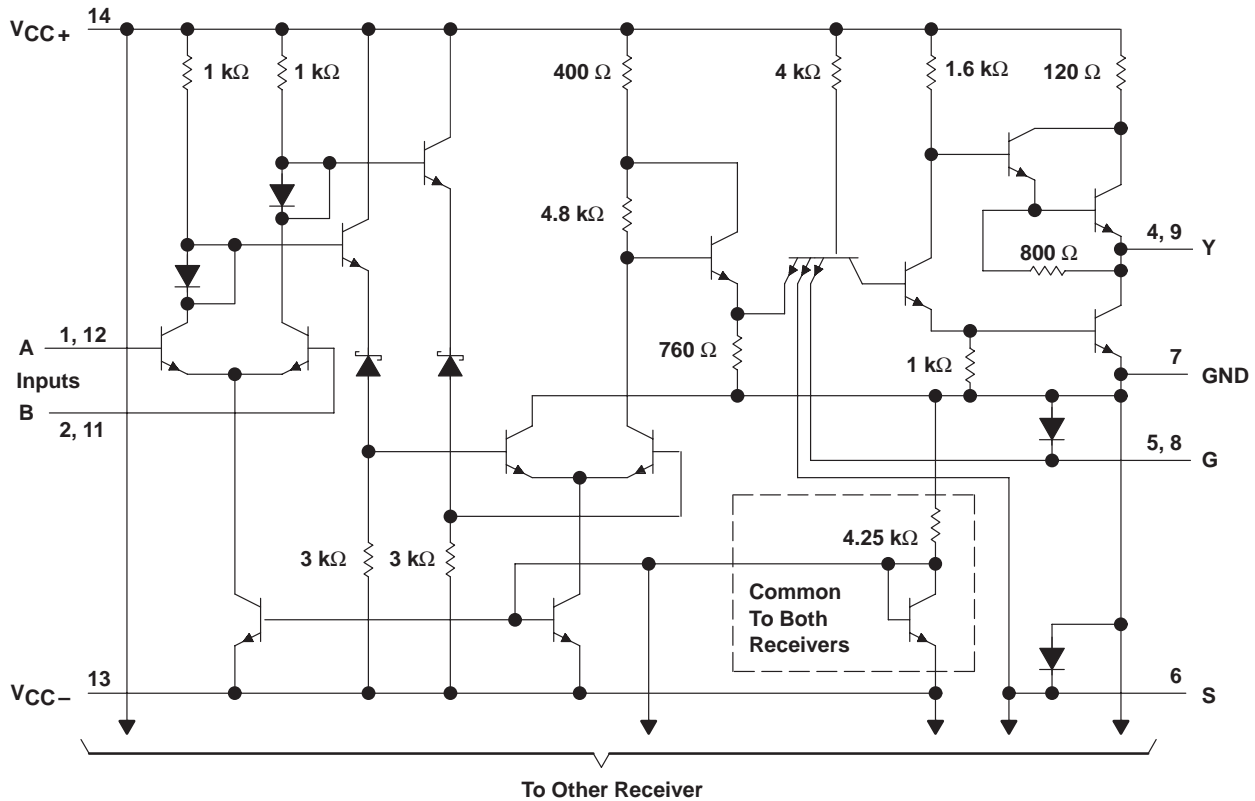


† This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12.

## logic diagram (positive logic)



## schematic (each receiver)



Resistor values shown are nominal.

**design characteristics**

The SN75207B line receivers/sense amplifiers are TTL-compatible, dual circuits intended for use in high-speed, data-transmission systems or MOS memory systems. They are designed to detect low-level differential signals in the presence of common-mode noise and variations of temperature and supplies. The dc specifications reflect worst-case conditions of temperature, supply voltages, and input voltages.

The input common-mode voltage range is  $\pm 3$  V. This is adequate for application in most systems. In systems with requirements for greater common-mode voltage range, input attenuators may be used to decrease the noise to an acceptable level at the receiver-input terminals.

The circuits feature individual strobe inputs for each channel and a strobe input common to both channels for logic versatility. The strobe inputs are tested to ensure 400 mV of dc noise margin when interfaced with Series 54/74 TTL.

The circuits feature high input impedance and low input currents, which induce very little loading on the transmission line. This makes these devices especially useful in party-line systems. The excellent input sensitivity (3 mV typical) is particularly important when data is to be detected at the end of a long transmission line and the amplitude of the data has deteriorated due to cable losses. The circuits are designed to detect input signals of 10-mV (or greater) amplitude and convert the polarity of the signal into appropriate TTL-compatible output logic levels.

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

Supply voltage, $V_{CC+}$ (see Note 1)	7 V
Supply voltage, $V_{CC-}$ (see Note 1)	-7 V
Differential input voltage, $V_{ID}$ (see Note 2)	$\pm 6$ V
Common-mode input voltage, $V_{IC}$ (see Note 3)	$\pm 5$ V
Strobe input voltage	5.5 V
Continuous total dissipation	See Dissipation Rating Table
Operating free-air temperature range, $T_A$	0°C to 70°C
Storage temperature range, $T_{stg}$	-65°C to 150°C
Lead temperature 1,6 mm (1/16 inch) from case for 10 seconds	260°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: A. All voltage values, except differential voltages, are with respect to GND terminal.  
1. Differential input voltage values are at the noninverting (A) terminal with respect to the inverting (B) terminal.  
2. Common-mode input voltage is the average of the voltages at the A and B inputs.

**DISSIPATION RATING TABLE**

PACKAGE	$T_A \leq 25^\circ\text{C}$ POWER RATING	DERATING FACTOR ABOVE $T_A = 25^\circ\text{C}$	$T_A = 70^\circ\text{C}$ POWER RATING
N	1050 mW	9.2 mW/°C	636 mW

# SN75207B DUAL SENSE AMPLIFIER FOR MOS MEMORIES OR DUAL HIGH-SENSITIVITY LINE RECEIVERS

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## recommended operating conditions (see Note 4)

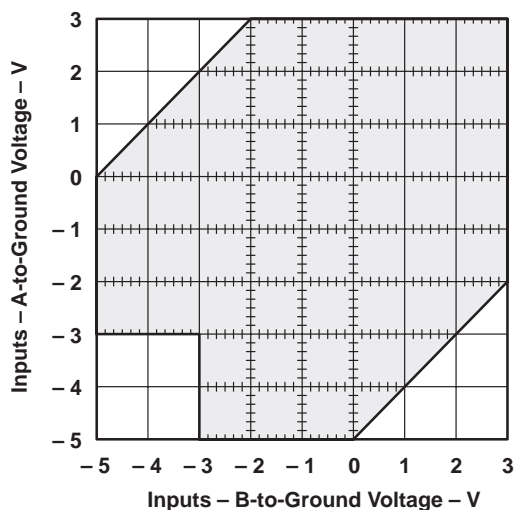
	MIN	NOM	MAX	UNIT
Supply voltage, $V_{CC+}$	4.75	5	5.25	V
Supply voltage, $V_{CC-}$	-4.75	-5	-5.25	V
High-level differential input voltage, $V_{ID(H)}$ (see Note 5)	0.01		5	V
Low-level differential input voltage, $V_{ID(L)}$	-5†		-0.01	V
Common-mode input voltage, $V_{IC}$ (see Notes 5 and 6)	-3†		3	V
Input voltage, any differential input to ground (see Note 5)	-5†		3	V
High-level input voltage at strobe inputs, $V_{IH(S)}$	2		5.5	V
Low-level input voltage at strobe inputs, $V_{IL(S)}$	0		0.8	V
Low-level output current, $I_{OL}$			-16	mA
Operating free-air temperature, $T_A$	0		70	°C

† The algebraic convention, in which the less positive (more negative) limit is designated as minimum, is used in this data sheet for logic voltage levels only.

NOTES: B. When using only one channel of the line receiver, the strobe G of the unused channel should be grounded and at least one of the differential inputs of the unused receiver should be terminated at some voltage between -3 V and 3 V.

3. The recommended combinations of input voltages fall within the shaded area of the figure shown.

4. The common-mode voltage may be as low as -4 V provided that the more positive of the two inputs is not more negative than -3 V.



# SN75207B DUAL SENSE AMPLIFIER FOR MOS MEMORIES OR DUAL HIGH-SENSITIVITY LINE RECEIVERS

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

PARAMETER		TEST CONDITIONS		MIN	TYP†	MAX	UNIT
$I_{IH}$	High-level input current	$V_{CC\pm} = \pm 5.25$ V	$V_{ID} = -5$ V		30	75	$\mu$ A
$I_{IL}$	Low-level input current	$V_{CC\pm} = \pm 5.25$ V	$V_{ID} = 5$ V			-10	$\mu$ A
$I_{IH}$	High-level input current into 1G or 2G	$V_{CC\pm} = \pm 5.25$ V, $V_{IH(S)} = 2.4$ V				40	$\mu$ A
		$V_{CC\pm} = \pm 5.25$ V, $V_{IH(S)} = \pm 5.25$ V				1	mA
$I_{IL}$	Low-level input current into 1G or 2G	$V_{CC\pm} = \pm 5.25$ V, $V_{IL(S)} = 0.4$ V				-1.6	mA
$I_{IH}$	High-level input current into S	$V_{CC\pm} = \pm 5.25$ V, $V_{IH(S)} = 2.4$ V				80	$\mu$ A
		$V_{CC\pm} = \pm 5.25$ V, $V_{IH(S)} = \pm 5.25$ V				2	mA
$I_{IL}$	Low-level input current into S	$V_{CC\pm} = \pm 5.25$ V, $V_{IL(S)} = 0.4$ V				-3.2	mA
$V_{OH}$	High-level output voltage	$V_{CC\pm} = \pm 4.75$ V, $I_{OH} = -400$ $\mu$ A, $V_{IC} = -3$ V to 3 V	$V_{IL(S)} = 0.8$ V, $V_{ID(H)} = 10$ mV		2.4		V
$V_{OL}$	Low-level output voltage	$V_{CC\pm} = \pm 4.75$ V, $I_{OL} = 16$ mA, $V_{IC} = -3$ V to 3 V	$V_{IH(S)} = 2$ V, $V_{ID(L)} = -10$ mV			0.4	V
$I_{OH}$	High-level output current	$V_{CC\pm} = \pm 4.75$ V, $V_{OH} = \pm 5.25$ V				400	$\mu$ A
$I_{OS}$	Short-circuit output current‡	$V_{CC\pm} = \pm 5.25$ V				-18	mA
$I_{CC+}$	Supply current from $V_{CC+}$	$V_{CC\pm} = \pm 5.25$ V, $T_A = 25^\circ$ C, Outputs high			18	30	mA
$I_{CC-}$	Supply current from $V_{CC-}$	$V_{CC\pm} = \pm 5.25$ V, $T_A = 25^\circ$ C, Outputs high			-8.4	-15	mA

† All typical values are at  $V_{CC+} = 5$  V,  $V_{CC-} = -5$  V,  $T_A = 25^\circ$ C.

‡ Not more than one output should be shorted at a time.

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

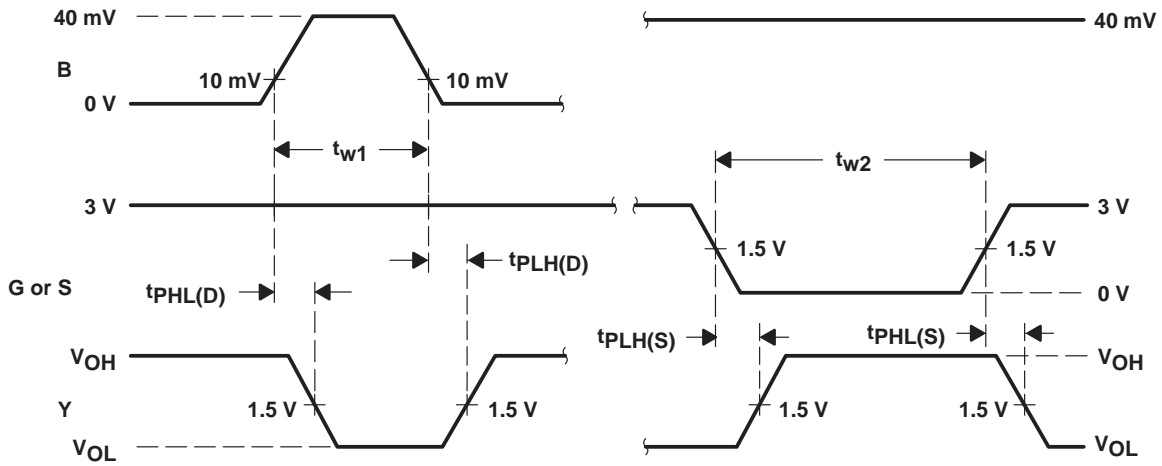
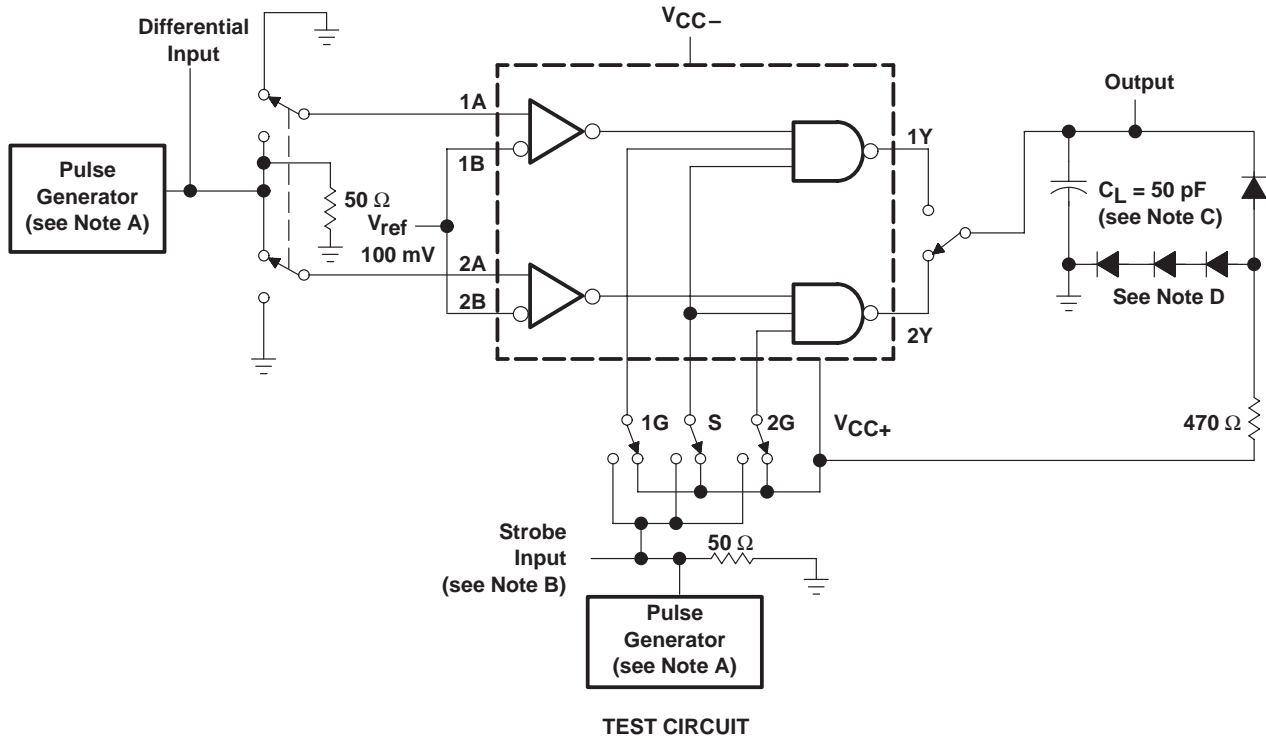
PARAMETER		TEST CONDITIONS		MIN	MAX	UNIT
$t_{PLH(D)}$	Propagation delay time, low- to high-level output, from differential inputs A and B	$R_L = 470$ $\Omega$ , See Figure 1	$C_L = 50$ pF,		35	ns
$t_{PHL(D)}$	Propagation delay time, high- to low-level output, from differential inputs A and B				20	ns
$t_{PLH(S)}$	Propagation delay time, low- to high-level output, from strobe input G or S				17	ns
$t_{PHL(S)}$	Propagation delay time, high- to low-level output, from strobe input G or S				17	ns



**SN75207B**  
**DUAL SENSE AMPLIFIER FOR MOS MEMORIES**  
**OR DUAL HIGH-SENSITIVITY LINE RECEIVERS**

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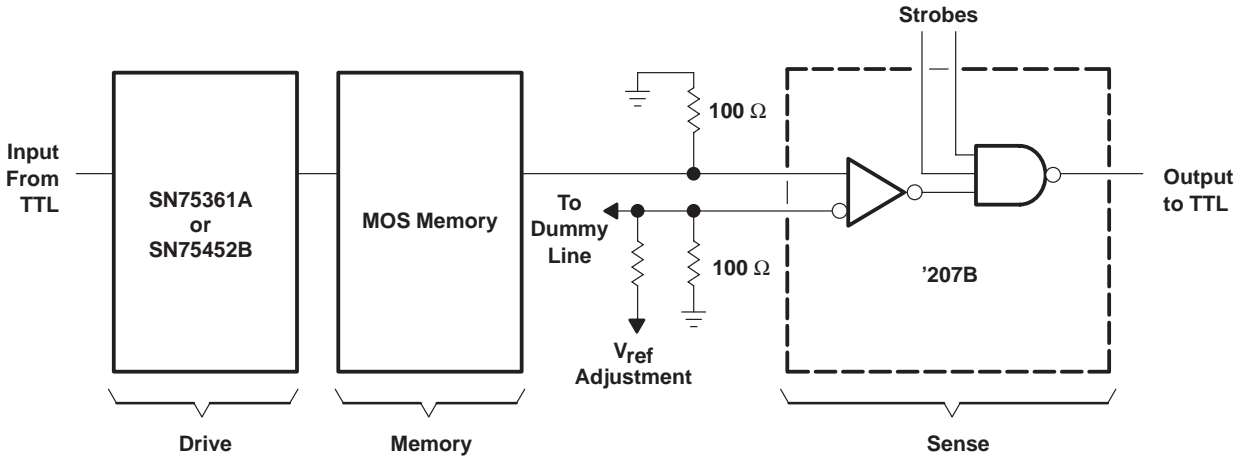
**PARAMETER MEASUREMENT INFORMATION**



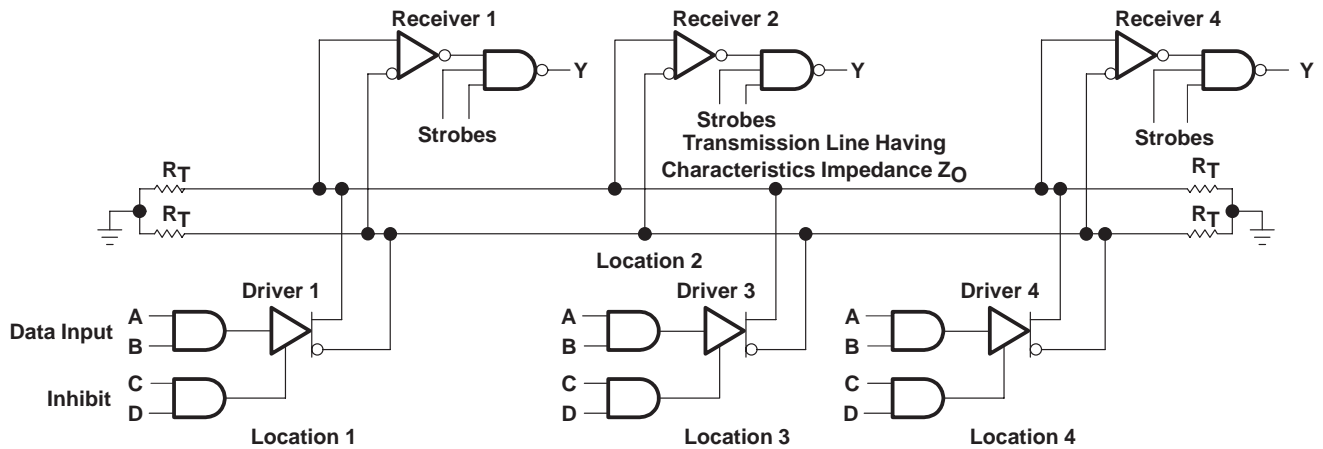
- NOTES: A. The pulse generators have the following characteristics:  $Z_O = 50 \Omega$ ,  $t_r \leq 5 \text{ ns}$ ,  $t_f \leq 5 \text{ ns}$ ,  $t_{w1} = 500 \text{ ns}$  with  $\text{PRR} = 1 \text{ MHz}$ ,  $t_{w2} = 1 \mu\text{s}$  with  $\text{PRR} = 500 \text{ kHz}$ .
- B. Strobe input pulse is applied to Strobe 1G when inputs 1A–1B are being tested, to Strobe S when inputs 1A–1B or 2A–2B are being tested, and to Strobe 2G when inputs 2A–2B are being tested.
- C.  $C_L$  includes probe and jig capacitance.
- D. All diodes are 1N916.

**Figure 1. Test Circuit and Voltage Waveforms**

**APPLICATION INFORMATION**



**Figure 2. MOS Memory Sense Amplifier**



Receivers are SN75207B; drivers are SN55109A, SN55110A, SN75110A, or SN75112.

**Figure 3. Data-Bus or Parity-Line System**

**PRECAUTIONS:** When only one receiver in a package is being used, at least one of the differential inputs of the unused receiver should be terminated at some voltage between  $-3\text{ V}$  and  $3\text{ V}$ , preferably at GND. Failure to do so will cause improper operation of the unit being used because of common bias circuitry for the current sources of the two receivers. Strobe G of the unused channel should be grounded.

**PACKAGING INFORMATION**

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead/Ball Finish	MSL Peak Temp (3)	Op Temp (°C)	Top-Side Markings (4)	Samples
SN75207BD	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SN75207B	<a href="#">Samples</a>
SN75207BDE4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SN75207B	<a href="#">Samples</a>
SN75207BDG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SN75207B	<a href="#">Samples</a>
SN75207BN	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN75207BN	<a href="#">Samples</a>
SN75207BNE4	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN75207BN	<a href="#">Samples</a>
SN75207BNSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SN75207B	<a href="#">Samples</a>
SN75207BNSRE4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SN75207B	<a href="#">Samples</a>
SN75207BNSRG4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SN75207B	<a href="#">Samples</a>

(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.

(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.

**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)

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



<sup>(4)</sup> Only one of markings shown within the brackets will appear on the physical device.

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## TAPE AND REEL INFORMATION



### QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



\*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN75207BNSR	SO	NS	14	2000	330.0	16.4	8.2	10.5	2.5	12.0	16.0	Q1

TAPE AND REEL BOX DIMENSIONS



\*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN75207BNSR	SO	NS	14	2000	367.0	367.0	38.0

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.
  - $\triangle C$  Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
  - $\triangle D$  The 20 pin end lead shoulder width is a vendor option, either half or full width.

4040049/E 12/2002

D (R-PDSO-G14)

PLASTIC SMALL OUTLINE



- 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 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



- NOTES:
- 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\*\*)

PLASTIC SMALL-OUTLINE PACKAGE

14-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.

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Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

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