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Texas Instruments SN75173D

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Datasheet of SN75173D - IC QUAD DIFF LINE REC 16-SOIC

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SN55173, SN65173, SN75173 QUADRUPLE DIFFERENTIAL LINE RECEIVERS

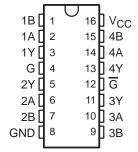
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- Meet or Exceed the Requirements of TIA/EIA-422-B, TIA/EIA-423-B, and TIA/EIA-485-A and ITU Recommendations V.10, V.11, X.26, and X.27
- Designed for Multipoint Bus Transmission on Long Bus Lines in Noisy Environments
- 3-State Outputs
- Common-Mode Input Voltage Range of −12 V to 12 V
- Input Sensitivity . . . ±200 mV
- Input Hysteresis . . . 50 mV Typ
- High Input Impedance . . . 12 k Ω Min
- Operate From Single 5-V Supply
- Low Power Requirements
- Pin-to-Pin Replacement for AM26LS32

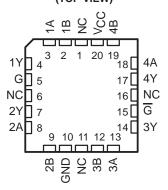
description

The SN55173, SN65173, and SN75173 are monolithic quadruple differential line receivers with 3-state outputs. They are designed to meet TIA/EIA-422-B, the requirements of TIA/EIA-423-B, TIA/EIA-485-A, and several ITU recommendations. The standards are for balanced multipoint bus transmission at rates up to 10 megabits per second. The four receivers share two OR enable inputs, one active when high, the other active when low. These devices feature high input impedance, input hysteresis for increased noise immunity, and input sensitivity of ±200 mV over a common-mode input voltage range of -12 V to 12 V. Fail-safe design specifies that if the inputs are open circuited, the outputs are always high. The SN65173 and SN75173 are designed for optimum performance when used with the SN75172 or SN75174 guad differential line drivers.

SN55173...J PACKAGE SN65173, SN75173...D OR N PACKAGE (TOP VIEW)



SN55173 . . . FK PACKAGE (TOP VIEW)



NC-No internal connection

THE SN55173 IS NOT RECOMMENDED FOR NEW DESIGNS.

The SN55173 is characterized over the full military temperature range of -55° C to 125° C. The SN65173 is characterized for operation from -40° C to 85° C. The SN75173 is characterized for operation from 0° C to 70° C.



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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AVAILABLE OPTIONS

	PACKAGED DEVICES										
TA	PLASTIC SMALL OUTLINE (D)	PLASTIC CHIP CARRIER (FK)	CERAMIC DIP (J)	PLASTIC DIP (N)							
0°C to 70°C	SN75173D	_	_	SN75173N							
–40°C to 85°C	SN65173D	_	_	SN65173N							
–55°C to 125°C	_	SN55173FK	SN55173J	_							

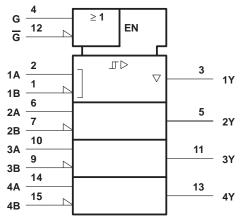
The D package is available taped and reeled. Add the suffix R to the device type (e.g., SN75173DR).

FUNCTION TABLE (each receiver)

DIFFERENTIAL	ENA	BLES	OUTPUT
A–B	G	G	Y
V >00V	Н	Х	Н
V _{ID} ≥ 0.2 V	Х	L	Н
0.01/ .1/0.01/	Н	Х	?
-0.2 V < V _{ID} < 0.2 V	Х	L	?
V < 0.2 V	Н	Х	L
V _{ID} ≤ -0.2 V	Х	L	L
X	L	Н	Z
Open circuit	Х	L	Н
Open circuit	Н	Х	Н

H = high level, L = low level, ? = indeterminate, X = irrelevant, Z = high impedance (off)

logic symbol †



 \dagger This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12. Pin numbers shown are for the D, J, and N packages.



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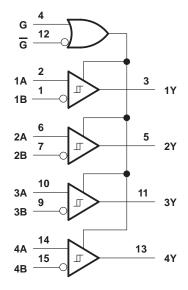


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SN55173, SN65173, SN75173 QUADRUPLE DIFFERENTIAL LINE RECEIVERS

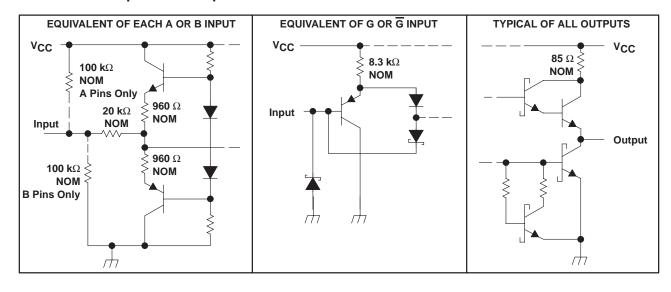
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logic diagram (positive logic)



Pin numbers shown are for the D, J, and N packages.

schematics of inputs and outputs







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SN55173, SN65173, SN75173 QUADRUPLE DIFFERENTIAL LINE RECEIVERS

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bsolute maximum ratings over operating free-air temperature range (unless otherwise noted)
Supply voltage, V _{CC} (see Note 1) 7 V
Input voltage (V _I or B inputs)±25 V
Differential input voltage, V _{ID} (see Note 2)±25 V
Enable input voltage, V _I
Low-level output current, I _{OL} 50 mA
Package thermal impedance, θ _{JA} (see Note 3): D package
N package 67°C/W
Continuous total dissipation
Case temperature for 60 seconds, T _C : FK package
Lead temperature 1,6 mm (1/16 inch) from case for 10 seconds: D or N package
Lead temperature 1,6 mm (1/16 inch) from case for 60 seconds: J package
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, except differential input voltage, are with respect to network ground terminal.
 - 2. Differential input voltage is measured at the noninverting input with respect to the corresponding inverting input.
 - 3. The package thermal impedance is calculated in accordance with JESD 51.

DISSIPATION RATING TABLE

PACKAGE	T _A ≤ 25°C POWER RATING	DERATING FACTOR	T _A = 70°C POWER RATING	T _A = 125°C POWER RATING		
FK	1375 mW	11 mW/°C	880 mW	275 mW		
J	1375 mW	11 mW/°C	880 mW	275 mW		

recommended operating conditions

		MIN	NOM	MAX	UNIT
Supply voltage Ve e	SN55173	4.5	5	5.5	V
Supply voltage, V _{CC}	SN65173, SN75173	4.75	5	5.25	V
Common-mode input voltage, V _{IC}				±12	٧
Differential input voltage, V _{ID}				±12	V
High-level enable-input voltage, V _{IH}		2			V
Low-level enable-input voltage, V _{IL}				0.8	V
High-level output current, IOH				-400	μΑ
Low-level output current, IOL				16	mA
	SN55173	-55		125	
Operating free-air temperature, TA	SN65173	-40		85	°C
	SN75173			70	





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electrical characteristics over recommended ranges of common-mode input voltage, supply voltage, and operating free-air temperature

	PARAMETER	TES	T CONDITIONS		MIN	TYP [†]	MAX	UNIT
V _{IT+}	Positive-going input threshold voltage	$V_0 = 2.7 V$,	$I_{O} = -0.4 \text{ mA}$				0.2	V
VIT-	Negative-going input threshold voltage	$V_0 = 0.5 V$,	I _O = 16 mA		-0.2‡			V
V _{hys}	Hysteresis (V _{IT+} – V _{IT} –)	See Figure 4				50		mV
٧IK	Enable-input clamp voltage	$I_{I} = -18 \text{ mA}$					-1.5	V
				SN55173	2.5			V
VOH	High-level output voltage	V _{ID} = 200 mV,	$I_{OH} = -400 \mu A$	SN65173, SN75173	2.7			V
V/~.	Low level output voltage	\/ 200 m\/	See Figure 1	I _{OL} = 8 mA			0.45	V
VOL	Low-level output voltage	$V_{ID} = -200 \text{ mV},$ See Figure 1		I _{OL} = 16 mA			0.5	V
loz	High-impedance-state output current	$V_0 = 0.4 \text{ V to } 2.4 \text{ V}$					±20	μΑ
ī	Line input current	Other input at 0 V	V _I = 12 V				1	mA
11	Line input current	Other input at 0 V, See Note 3		V _I = −7 V			-0.8	IIIA
lН	High-level enable-input current	V _{IH} = 2.7 V					20	μΑ
I _{IL} Low-level enable-input current		V _{IL} = 0.4 V					-100	μΑ
rį	Input resistance				12			kΩ
Ios	Short-circuit output current				-15		-85	mA
ICC	Supply current	Outputs disabled					70	mA

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

NOTE 3: Refer to TIA/EIA-422-B and TIA/EIA-423-B for exact conditions.

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

	PARAMETER	TEST CO	MIN	TYP	MAX	UNIT	
tPLH	Propagation delay time, low-to-high-level output	V _{ID} = -1.5 V to 1.5 V, C _L = 15 pF, See Figure 1			20	35	ns
tPHL	Propagation delay time, high-to-low-level output				22	35	ns
tPZH	Output enable time to high level	$C_L = 15 pF$,	See Figure 2		17	22	ns
tpzL	Output enable time to low level	$C_L = 15 pF$,	See Figure 3		20	25	ns
tPHZ	Output disable time from high level	$C_L = 5 pF$,	See Figure 2		21	30	ns
tPLZ	Output disable time from low level	$C_L = 5 pF$,	See Figure 3		30	40	ns



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

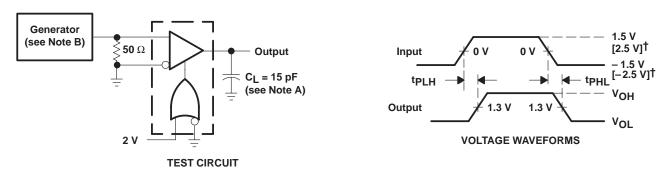
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PARAMETER MEASUREMENT INFORMATION

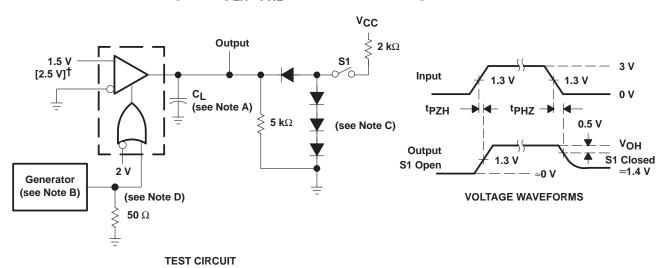


† Voltage for the SN55173 only.

NOTES: A. C_I includes probe and jig capacitance.

B. The input pulse is supplied by a generator having the following characteristics: PRR = 1 MHz, duty cycle = 50%, $t_{\Gamma} \le 6$ ns, $t_{\Gamma} \le 6$

Figure 1. tpLH, tpHL Test Circuit and Voltage Waveforms



† Voltage for the SN55173 only.

NOTES: A. C_L includes probe and jig capacitance.

- B. The input pulse is supplied by a generator having the following characteristics: PRR = 1 MHz, duty cycle = 50%, $t_f \le 6$ ns, $t_f \le 6$ ns
- C. All diodes are 1N916, or equivalent.
- D. To test the active-low enable \overline{G} , ground G and apply an inverted input waveform to \overline{G} .

Figure 2. t_{PHZ}, t_{PZH} Test Circuit and Voltage Waveforms



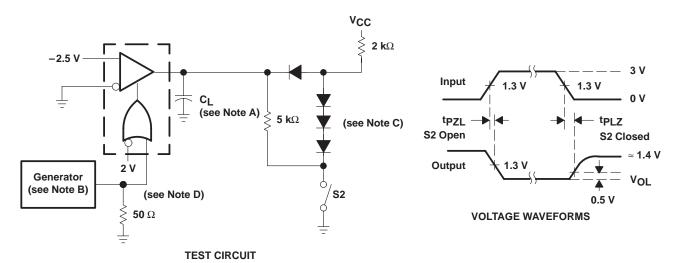
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PARAMETER MEASUREMENT INFORMATION



NOTES: A. C_L includes probe and jig capacitance.

- B. The input pulse is supplied by a generator having the following characteristics: PRR = 1 MHz, duty cycle = 50%, $t_{\Gamma} \le 6$ ns, $t_{\Gamma} \le 6$
- C. All diodes are 1N916, or equivalent.
- D. To test the active-low enable \overline{G} , ground G and apply an inverted input waveform to \overline{G} .

Figure 3. tpzl, tpLZ Test Circuit and Voltage Waveforms



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TYPICAL CHARACTERISTICS[†]

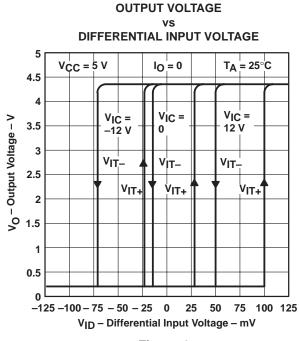


Figure 4

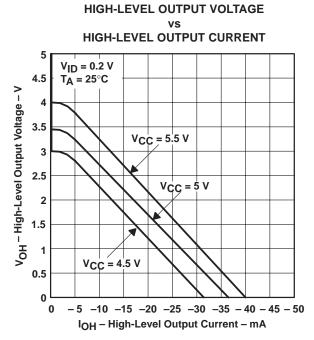


Figure 5

[†]Operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied.

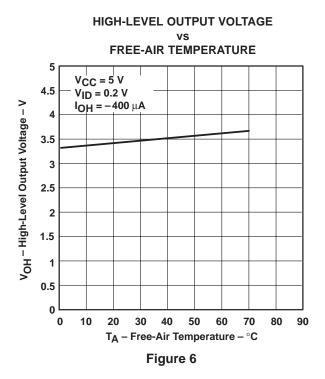


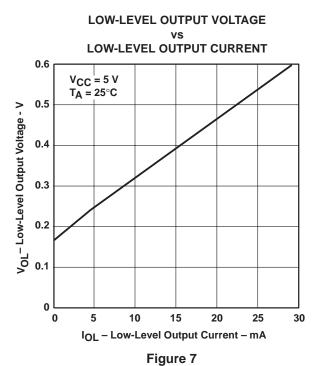
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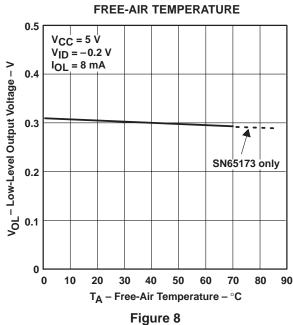
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TYPICAL CHARACTERISTICS[†]





LOW-LEVEL OUTPUT VOLTAGE vs FREE-AIR TEMPERATURE



OUTPUT VOLTAGE vs **ENABLE G VOLTAGE**

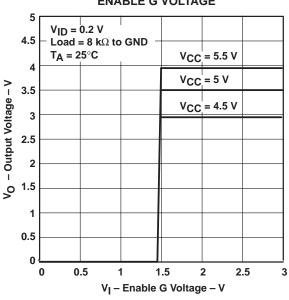


Figure 9

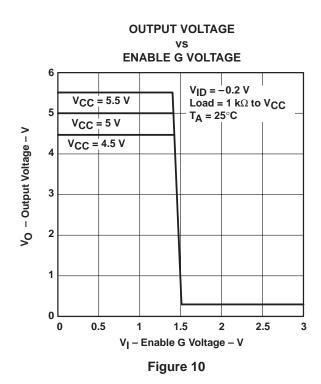
[†] Operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied.

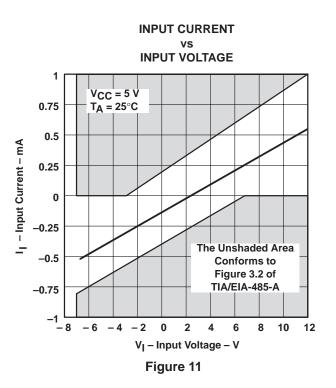


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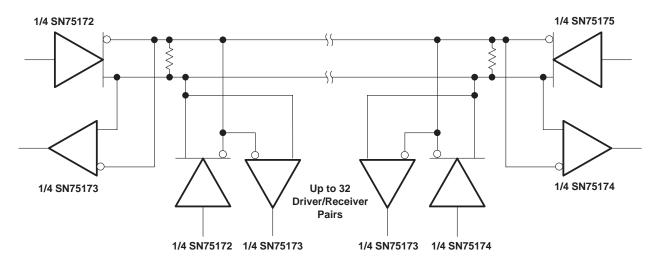
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TYPICAL CHARACTERISTICS





APPLICATION INFORMATION



NOTE A: The line should be terminated at both ends in its characteristic impedance. Stub lengths off the main line should be kept as short as possible.

Figure 12. Typical Application Circuit





Datasheet of SN75173D - IC QUAD DIFF LINE REC 16-SOIC

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PACKAGE OPTION ADDENDUM

17-Dec-2015

PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package	Pins	Package	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
	(1)		Drawing		Qty	(2)	(6)	(3)		(4/5)	
SN55173J	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	SN55173J	Samples
SN65173D	OBSOLETE	SOIC	D	16		TBD	Call TI	Call TI	-40 to 85		
SN65173DR	OBSOLETE	SOIC	D	16		TBD	Call TI	Call TI	-40 to 85		
SN65173N	OBSOLETE	PDIP	N	16		TBD	Call TI	Call TI	-40 to 85		
SN75173D	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SN75173	Samples
SN75173DE4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SN75173	Samples
SN75173DG4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SN75173	Samples
SN75173DR	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SN75173	Samples
SN75173DRG4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SN75173	Samples
SN75173J	OBSOLETE	CDIP	J	16		TBD	Call TI	Call TI			
SN75173N	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN75173N	Samples
SN75173NE4	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN75173N	Samples
SN75173NSR	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SN75173	Samples
SNJ55173J	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	SNJ55173J	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.

(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.

Addendum-Page 1



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PACKAGE OPTION ADDENDUM

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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 Exempl): 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.

(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 SN55173, SN75173:

- Military: SN55173

NOTE: Qualified Version Definitions:

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

Addendum-Page 2

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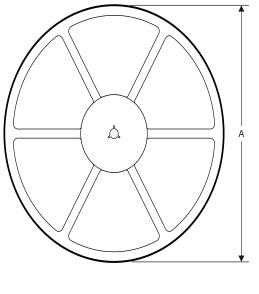


PACKAGE MATERIALS INFORMATION

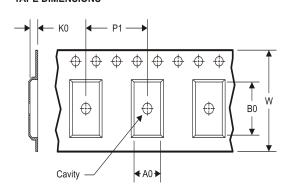
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TAPE AND REEL INFORMATION

REEL DIMENSIONS



TAPE DIMENSIONS



	A0	Dimension designed to accommodate the component width
	В0	Dimension designed to accommodate the component length
Γ	K0	Dimension designed to accommodate the component thickness
	W	Overall width of the carrier tape
Γ	P1	Pitch between successive cavity centers



TAPE AND REEL INFORMATION

*All dimensions 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
SN75173DR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
SN75173NSR	SO	NS	16	2000	330.0	16.4	8.2	10.5	2.5	12.0	16.0	Q1



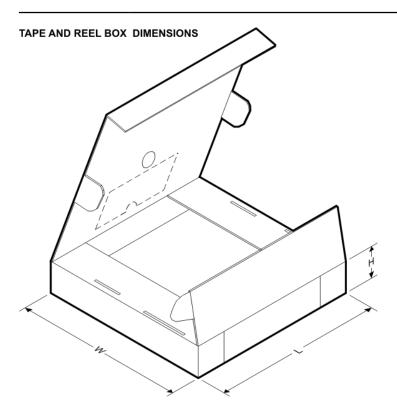
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PACKAGE MATERIALS INFORMATION

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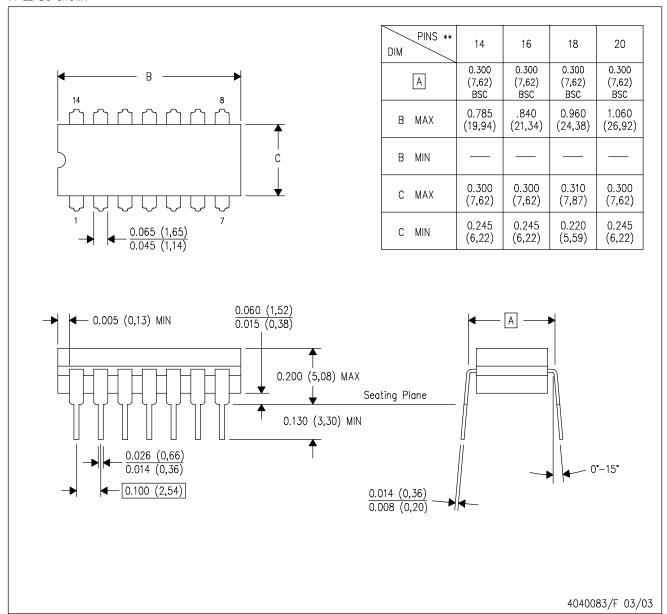
*All dimensions are nominal

7 till difficilities are memilian							
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN75173DR	SOIC	D	16	2500	333.2	345.9	28.6
SN75173NSR	SO	NS	16	2000	367.0	367.0	38.0

J (R-GDIP-T**)

CERAMIC DUAL IN-LINE PACKAGE

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.

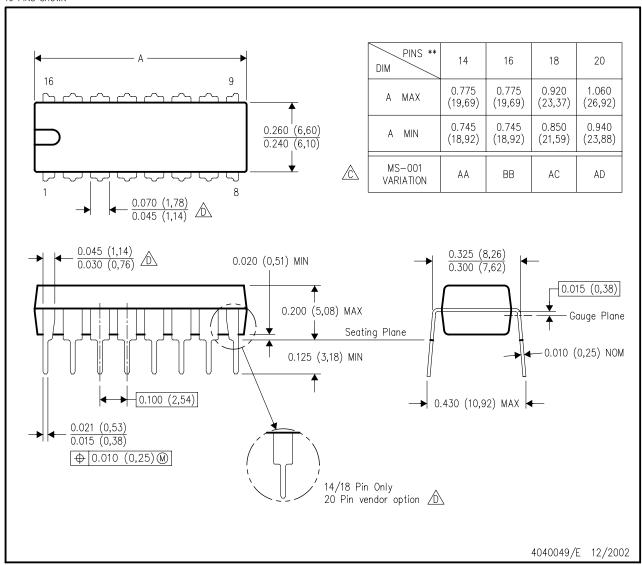


MECHANICAL DATA

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



- All linear dimensions are in inches (millimeters).
- 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.

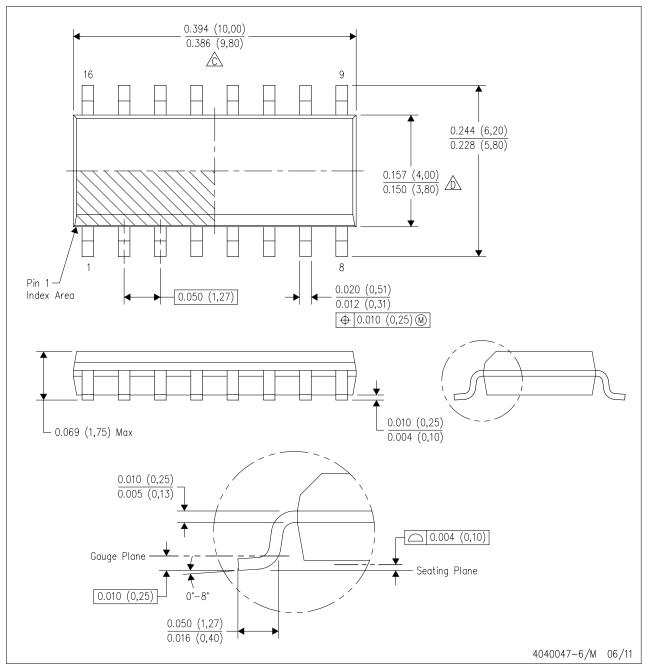




MECHANICAL DATA

D (R-PDSO-G16)

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 AC.



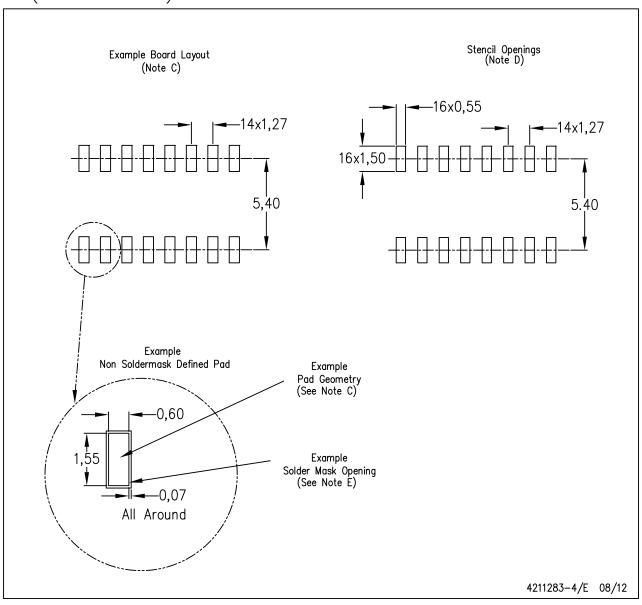




LAND PATTERN DATA

D (R-PDSO-G16)

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.



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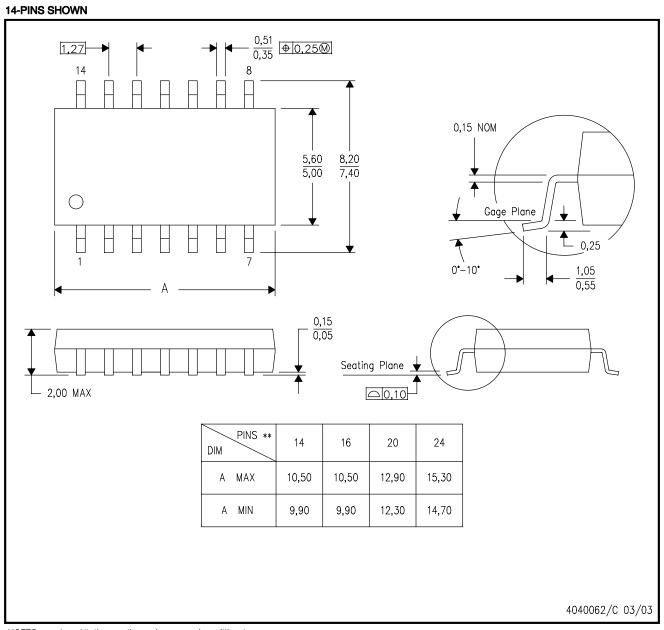


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MECHANICAL DATA

NS (R-PDSO-G**)

PLASTIC SMALL-OUTLINE PACKAGE



- 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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