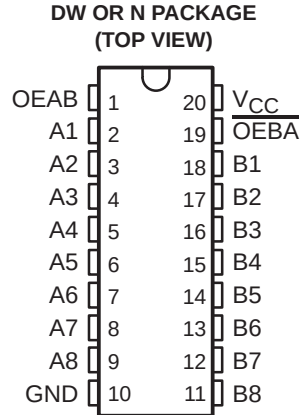


SN74ALS620A, SN74ALS621A, SN74ALS623A, SN74AS623 OCTAL BUS TRANSCEIVERS

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- Local Bus-Latch Capability
- Choice of True or Inverting Logic
- Package Options Include Plastic Small-Outline (DW) Packages and Standard Plastic (N) 300-mil DIPs

DEVICE	OUTPUT	LOGIC
SN74ALS620A	3 state	Inverting
SN74ALS621A	Open collector	True
SN74ALS623A, SN74AS623	3 state	True



description

These octal bus transceivers are designed for asynchronous two-way communication between data buses. The control-function implementation allows for maximum flexibility in timing.

These devices allow data transmission from the A bus to the B bus or from the B bus to the A bus, depending upon the logic levels at the output-enable (OEAB and $\overline{\text{OEBA}}$) inputs.

The output-enable inputs disable the device so that the buses are effectively isolated. The dual-enable configuration gives the transceivers the capability to store data by simultaneously enabling OEAB and $\overline{\text{OEBA}}$. Each output reinforces its input in this transceiver configuration. When both OEAB and $\overline{\text{OEBA}}$ are enabled and all other data sources to the two sets of bus lines are in the high-impedance state, both sets of bus lines (16 total) remain at their last states. The 8-bit codes appearing on the two sets of buses are identical for the SN74ALS621A, SN74ALS623A, and SN74AS623 or complementary for the SN74ALS620A.

The -1 versions of the SN74ALS620A and SN74ALS621A are identical to the standard versions, except that the recommended maximum I_{OL} is increased to 48 mA in the -1 versions.

The SN74ALS620A, SN74ALS621A, SN74ALS623A, and SN74AS623 are characterized for operation from 0°C to 70°C.

FUNCTION TABLE

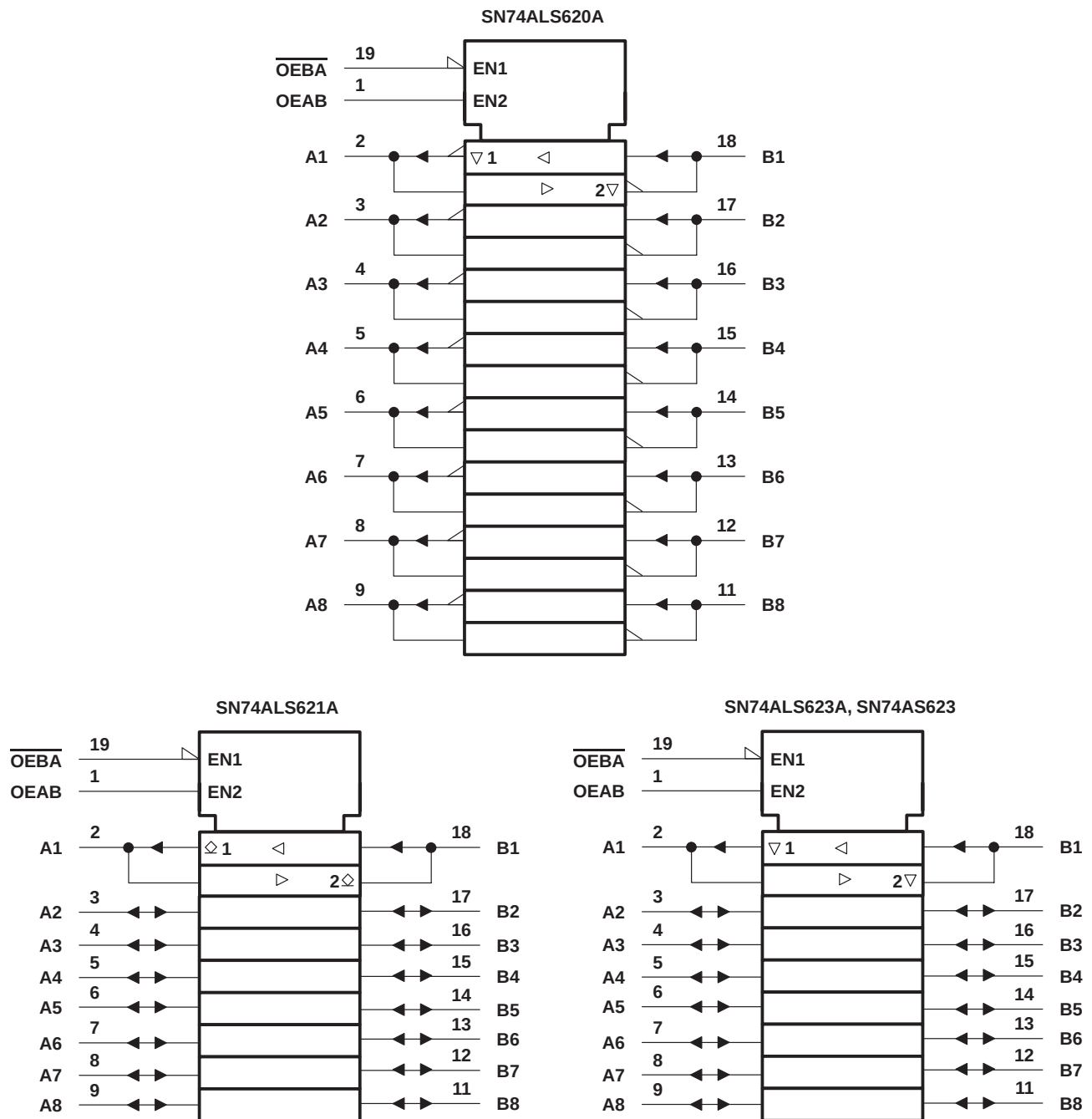
INPUTS		OPERATION	
$\overline{\text{OEBA}}$	OEAB	SN74ALS620A	SN74ALS621A SN74ALS623A SN74AS623
L	L	$\overline{\text{B}}$ data to A bus	B data to A bus
H	H	$\overline{\text{A}}$ data to B bus	A data to B bus
H	L	Isolation	Isolation
L	H	$\overline{\text{B}}$ data to A bus, $\overline{\text{A}}$ data to B bus	B data to A bus, A data to B bus

SN74ALS620A, SN74ALS621A, SN74ALS623A, SN74AS623

OCTAL BUS TRANSCEIVERS

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logic symbols[†]

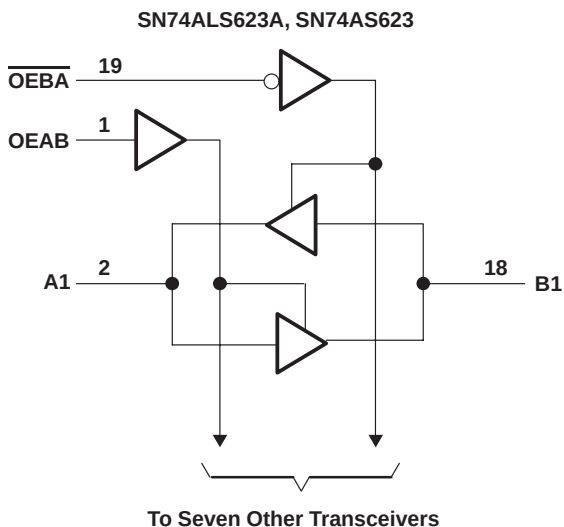
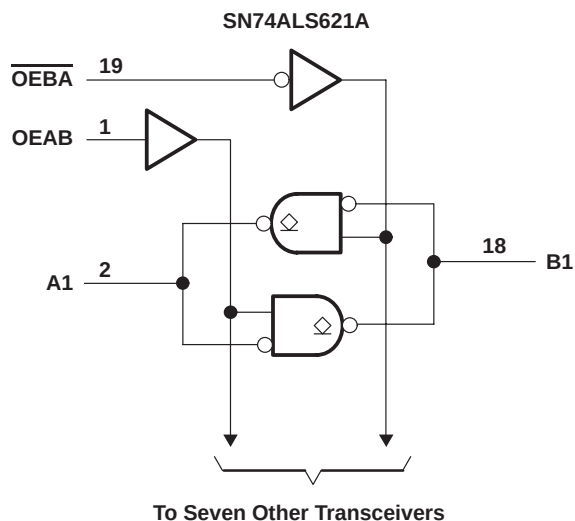
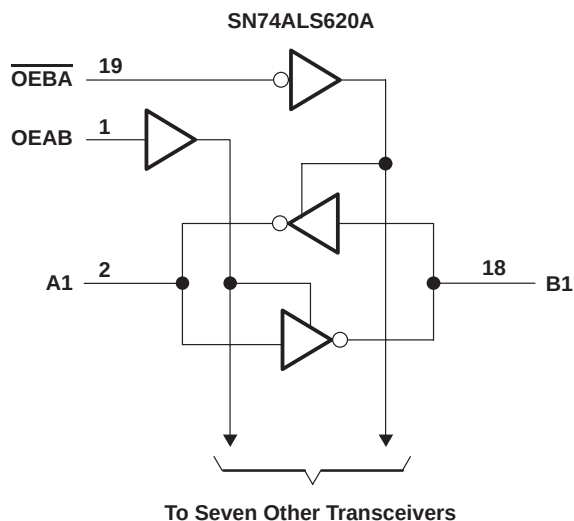


[†] These symbols are in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12.

SN74ALS620A, SN74ALS621A, SN74ALS623A, SN74AS623 OCTAL BUS TRANSCEIVERS

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logic diagrams (positive logic)



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

Supply voltage, V_{CC}	7 V
Input voltage, V_I : All inputs	7 V
I/O ports	5.5 V
Operating free-air temperature range, T_A : SN74ALS620A, SN74ALS623A	0°C to 70°C
Storage temperature range	–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.

SN74ALS620A, SN74ALS621A, SN74ALS623A, SN74AS623

OCTAL BUS TRANSCEIVERS

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recommended operating conditions

		SN74ALS620A SN74ALS623A			UNIT
		MIN	NOM	MAX	
V_{CC}	Supply voltage	4.5	5	5.5	V
V_{IH}	High-level input voltage	2			V
V_{IL}	Low-level input voltage			0.8	V
I_{OH}	High-level output current			–15	mA
I_{OL}	Low-level output current			24	mA
T_A	Operating free-air temperature	0		70	°C

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

PARAMETER		TEST CONDITIONS		SN74ALS620A SN74ALS623A		UNIT	
				MIN	TYP [†]		MAX
V _{IK}		V _{CC} = 4.5 V, I _I = −18 mA		−1.2		V	
V _{OH}		V _{CC} = 4.5 V to 5.5 V, I _{OH} = −0.4 mA		V _{CC} − 2		V	
		V _{CC} = 4.5 V		I _{OH} = −3 mA			2.4 3.2
				I _{OH} = −15 mA			2
V _{OL}		V _{CC} = 4.5 V		I _{OL} = 12 mA		0.25 0.4	V
				I _{OL} = 24 mA [‡]		0.35 0.5	
I _I	Control inputs	V _{CC} = 5.5 V		V _I = 7 V		0.1	mA
	A or B ports			V _I = 5.5 V		0.1	
I _{IH}	Control inputs	V _{CC} = 5.5 V, V _I = 2.7 V		20		μA	
	A or B ports [§]			20			
I _{IL}	Control inputs	V _{CC} = 5.5 V, V _I = 0.4 V		−0.1		mA	
	A or B ports [§]			−0.1			
I _O [¶]		V _{CC} = 5.5 V, V _O = 2.25 V		−30	−112	mA	
I _{CC}	SN74ALS620A	V _{CC} = 5.5 V		Outputs high		24 34	mA
				Outputs low		31 44	
				Outputs disabled		33 47	
	SN74ALS623A	V _{CC} = 5.5 V		Outputs high		32 43	
				Outputs low		39 50	
				Outputs disabled		42 55	

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

[‡] Applies only to the -1 version and only if V_{CC} is between 4.75 V and 5.25 V

[§] For I/O ports, the parameters I_{IH} and I_{IL} include the off-state output current.

^{||} The output conditions have been chosen to produce a current that closely approximates one half of the true short-circuit output current, I_{OS} .



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SN74ALS620A, SN74ALS621A, SN74ALS623A, SN74AS623 OCTAL BUS TRANSCEIVERS

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switching characteristics (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 4.5 V to 5.5 V, C _L = 50 pF, R1 = 500 Ω, R2 = 500 Ω, T _A = MIN to MAX†				UNIT
			SN74ALS620A		SN74ALS623A		
			MIN	MAX	MIN	MAX	
t _{PLH}	A	B	2	10	2	13	ns
t _{PHL}			2	10	3	11	
t _{PLH}	B	A	2	10	2	13	ns
t _{PHL}			2	10	3	11	
t _{PZH}	$\overline{\text{OEBA}}$	A	3	17	5	22	ns
t _{PZL}			5	25	5	22	
t _{PHZ}	$\overline{\text{OEBA}}$	A	2	12	2	16	ns
t _{PLZ}			3	18	2	19	
t _{PZH}	OEAB	B	3	18	5	22	ns
t _{PZL}			5	25	5	22	
t _{PHZ}	OEAB	B	2	12	2	16	ns
t _{PLZ}			3	18	2	19	

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

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

Supply voltage, V _{CC}	7 V
Input voltage, V _I : All inputs and I/O ports	7 V
Operating free-air temperature range, T _A : SN74ALS621A	0°C to 70°C
Storage temperature range	–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.

recommended operating conditions

		SN74ALS621A			UNIT
		MIN	NOM	MAX	
V _{CC}	Supply voltage	4.5	5	5.5	V
V _{IH}	High-level input voltage	2			V
V _{IL}	Low-level input voltage			0.8	V
V _{OH}	High-level output voltage			5.5	V
I _{OL}	Low-level output current			24	mA
				48 [§]	mA
T _A	Operating free-air temperature	0		70	°C

§ Applies only to the -1 version and only if V_{CC} is between 4.75 V and 5.25 V



SN74ALS620A, SN74ALS621A, SN74ALS623A, SN74AS623 OCTAL BUS TRANSCEIVERS

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

PARAMETER		TEST CONDITIONS	SN74ALS621A			UNIT
			MIN	TYP [†]	MAX	
V_{IK}		$V_{CC} = 4.5\text{ V}$, $I_I = -18\text{ mA}$			-1.5	V
I_{OH}		$V_{CC} = 4.5\text{ V}$, $V_{OH} = 5.5\text{ V}$			0.1	mA
V_{OL}		$V_{CC} = 4.5\text{ V}$				
		$I_{OL} = 24\text{ mA}$		0.35	0.5	V
		$I_{OL} = 48\text{ mA}^\ddagger$		0.35	0.5	
I_I	Control inputs	$V_{CC} = 5.5\text{ V}$				
	A or B ports					
		$V_I = 7\text{ V}$			0.1	mA
		$V_I = 5.5\text{ V}$			0.1	
I_{IH}	Control inputs	$V_{CC} = 5.5\text{ V}$, $V_I = 2.7\text{ V}$			20	μA
	A or B ports [§]				20	
I_{IL}	Control inputs	$V_{CC} = 5.5\text{ V}$, $V_I = 0.4\text{ V}$			-0.1	mA
	A or B ports [§]				-0.1	
I_{CC}		$V_{CC} = 5.5\text{ V}$				
		Outputs high		29	40	mA
		Outputs low		35	48	

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

[‡] Applies only to the -1 version and only if V_{CC} is between 4.75 V and 5.25 V

[§] For I/O ports, the parameters I_{IH} and I_{IL} include the off-state output current.

switching characteristics (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 4.5 V to 5.5 V, C _L = 50 pF, R _L = 680 Ω, T _A = MIN to MAX ^{††}		UNIT
			SN74ALS621A		
			MIN	MAX	
t _{PLH}	A	B	10	33	ns
t _{PHL}			5	20	
t _{PLH}	B	A	10	33	ns
t _{PHL}			5	20	
t _{PLH}	$\overline{\text{OEBA}}$	A	10	39	ns
t _{PHL}			12	35	
t _{PLH}	OEAB	B	10	39	ns
t _{PHL}			12	35	

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

SN74ALS620A, SN74ALS621A, SN74ALS623A, SN74AS623 OCTAL BUS TRANSCEIVERS

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

Supply voltage, V_{CC}	7 V
Input voltage, V_I : All inputs	7 V
I/O ports	5.5 V
Operating free-air temperature range, T_A : SN74AS623	0°C to 70°C
Storage temperature range	–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.

recommended operating conditions

		SN74AS623			UNIT
		MIN	NOM	MAX	
V_{CC}	Supply voltage	4.5	5	5.5	V
V_{IH}	High-level input voltage	2			V
V_{IL}	Low-level input voltage			0.8	V
I_{OH}	High-level output current			–15	mA
I_{OL}	Low-level output current			64	mA
T_A	Operating free-air temperature	0		70	°C

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

PARAMETER		TEST CONDITIONS		SN74AS623		UNIT
				MIN	TYP [‡]	MAX
V_{IK}		$V_{CC} = 4.5\text{ V}$, $I_I = -18\text{ mA}$				–1.2
V_{OH}		$V_{CC} = 4.5\text{ V to } 5.5\text{ V}$, $I_{OH} = -2\text{ mA}$		$V_{CC} - 2$		V
		$V_{CC} = 4.5\text{ V}$, $I_{OH} = -3\text{ mA}$		2.4	3.2	
		$I_{OH} = -15\text{ mA}$		2		
V_{OL}		$V_{CC} = 4.5\text{ V}$, $I_{OL} = 64\text{ mA}$		0.35	0.55	V
I_I	Control inputs	$V_{CC} = 5.5\text{ V}$	$V_I = 7\text{ V}$		0.1	mA
	A or B ports		$V_I = 5.5\text{ V}$		0.1	
I_{IH}	Control inputs	$V_{CC} = 5.5\text{ V}$, $V_I = 2.7\text{ V}$			20	μA
	A or B ports [§]				70	
I_{IL}	Control inputs	$V_{CC} = 5.5\text{ V}$, $V_I = 0.4\text{ V}$			–0.5	mA
	A or B ports [§]				–0.75	
$I_O^{\parallel}$		$V_{CC} = 5.5\text{ V}$, $V_O = 2.25\text{ V}$		–30		–150
I_{CC}		$V_{CC} = 5.5\text{ V}$	Outputs high		57	93
			Outputs low		16	189
			Outputs disabled		71	116

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

[§] For I/O ports, the parameters I_{IH} and I_{IL} include the off-state output current.

^{||} The output conditions have been chosen to produce a current that closely approximates one half of the true short-circuit output current, I_{OS} .



SN74ALS620A, SN74ALS621A, SN74ALS623A, SN74AS623

OCTAL BUS TRANSCEIVERS

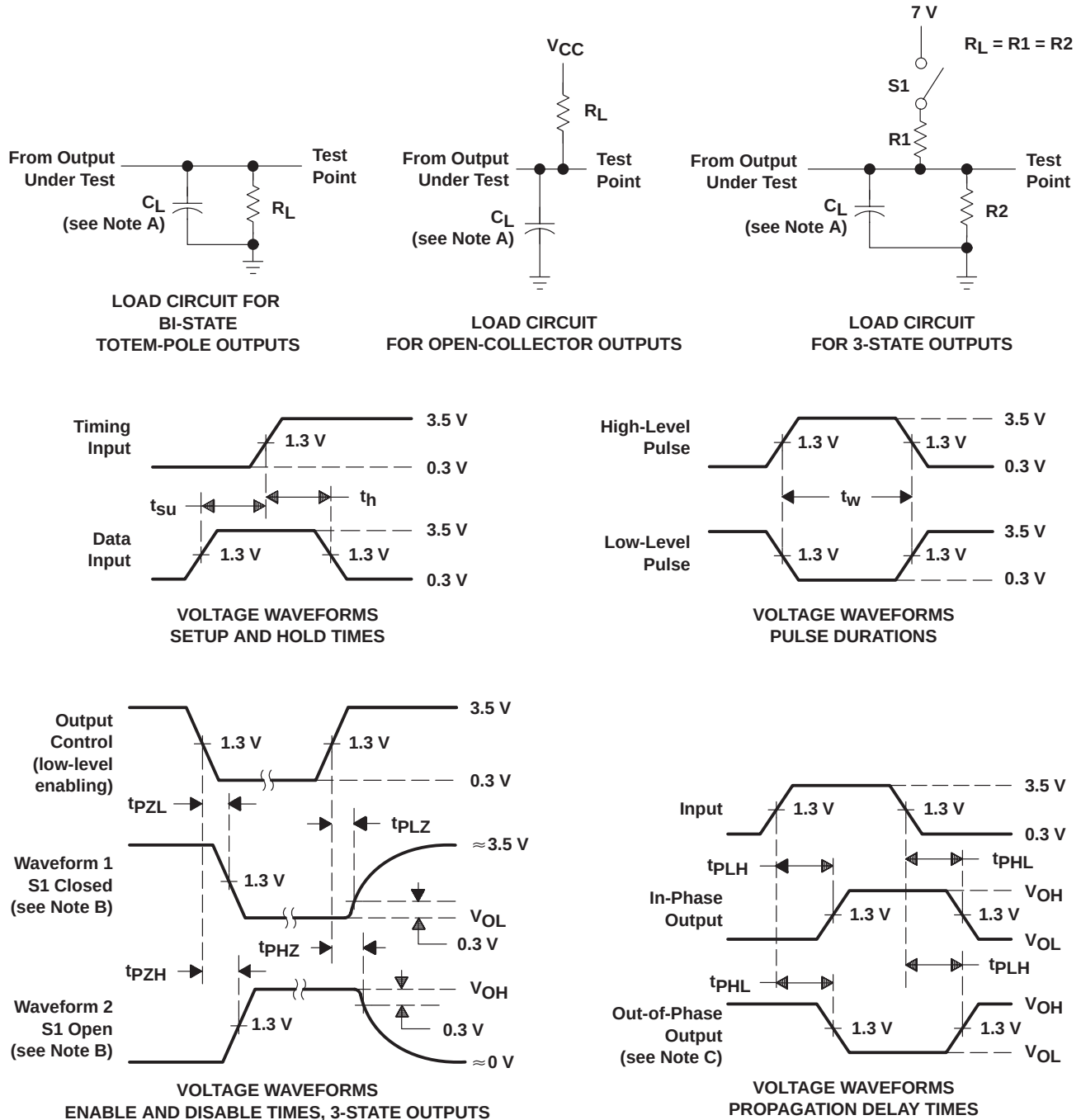
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switching characteristics (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 4.5 V to 5.5 V, C _L = 50 pF, R1 = 500 Ω, R2 = 500 Ω, T _A = MIN to MAX†		UNIT
			SN74AS623		
			MIN	MAX	
t _{PLH}	A	B	1	9	ns
t _{PHL}			1	8	
t _{PLH}	B	A	1	9	ns
t _{PHL}			1	8.5	
t _{PZH}	$\overline{\text{OEBA}}$	A	2	11	ns
t _{PZL}			2	10	
t _{PHZ}	$\overline{\text{OEBA}}$	A	1	7.5	ns
t _{PLZ}			1	11.5	
t _{PZH}	OEAB	B	2	11.5	ns
t _{PZL}			2	11	
t _{PHZ}	OEAB	B	1	7	ns
t _{PLZ}			1	9	

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

PARAMETER MEASUREMENT INFORMATION
SERIES 54ALS/74ALS AND 54AS/74AS DEVICES



- NOTES: A. C_L includes probe and jig capacitance.
B. Waveform 1 is for an output with internal conditions such that the output is low except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high except when disabled by the output control.
C. When measuring propagation delay items of 3-state outputs, switch S1 is open.
D. All input pulses have the following characteristics: $PRR \leq 1$ MHz, $t_r = t_f = 2$ ns, duty cycle = 50%.
E. The outputs are measured one at a time with one transition per measurement.

Figure 1. Load Circuits and Voltage Waveforms

PACKAGING INFORMATION

Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
SN74ALS620ADW	Active	Production	SOIC (DW) 20	25 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	ALS620A
SN74ALS620ADW.A	Active	Production	SOIC (DW) 20	25 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	ALS620A
SN74ALS620AN	Active	Production	PDIP (N) 20	20 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74ALS620AN
SN74ALS620AN.A	Active	Production	PDIP (N) 20	20 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74ALS620AN
SN74ALS621A-1N	Last Time Buy	Production	PDIP (N) 20	20 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74ALS621A-1N
SN74ALS621A-1N.A	Last Time Buy	Production	PDIP (N) 20	20 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74ALS621A-1N
SN74ALS621ADW	Active	Production	SOIC (DW) 20	25 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	ALS621A
SN74ALS621ADW.A	Active	Production	SOIC (DW) 20	25 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	ALS621A
SN74ALS621AN	Active	Production	PDIP (N) 20	20 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74ALS621AN
SN74ALS621AN.A	Active	Production	PDIP (N) 20	20 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74ALS621AN
SN74ALS623ADW	Active	Production	SOIC (DW) 20	25 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	ALS623A
SN74ALS623ADW.A	Active	Production	SOIC (DW) 20	25 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	ALS623A
SN74ALS623AN	Active	Production	PDIP (N) 20	20 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74ALS623AN
SN74ALS623AN.A	Active	Production	PDIP (N) 20	20 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74ALS623AN
SN74ALS623ANSR	Last Time Buy	Production	SOP (NS) 20	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	ALS623A
SN74ALS623ANSR.A	Last Time Buy	Production	SOP (NS) 20	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	ALS623A

⁽¹⁾ **Status:** For more details on status, see our [product life cycle](#).

⁽²⁾ **Material type:** When designated, preproduction parts are prototypes/experimental devices, and are not yet approved or released for full production. Testing and final process, including without limitation quality assurance, reliability performance testing, and/or process qualification, may not yet be complete, and this item is subject to further changes or possible discontinuation. If available for ordering, purchases will be subject to an additional waiver at checkout, and are intended for early internal evaluation purposes only. These items are sold without warranties of any kind.

⁽³⁾ **RoHS values:** Yes, No, RoHS Exempt. See the [TI RoHS Statement](#) for additional information and value definition.

⁽⁴⁾ **Lead finish/Ball material:** Parts may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

⁽⁵⁾ **MSL rating/Peak reflow:** The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.

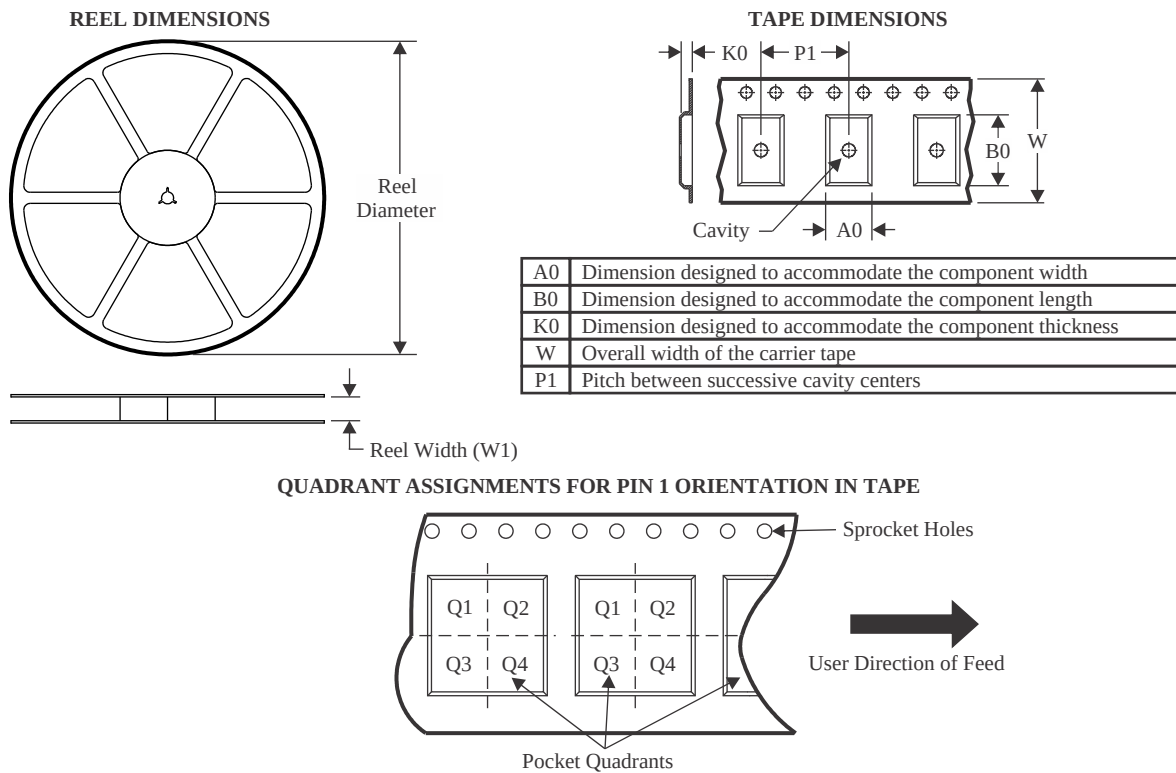
⁽⁶⁾ **Part marking:** There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.

Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "~" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

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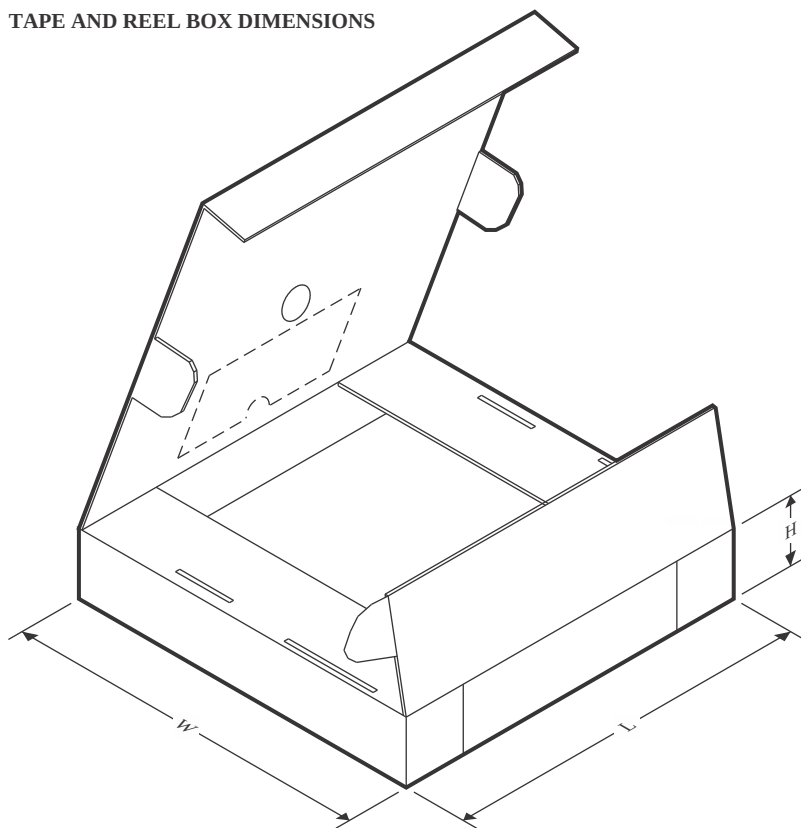
TAPE AND REEL INFORMATION



*All dimensions are nominal

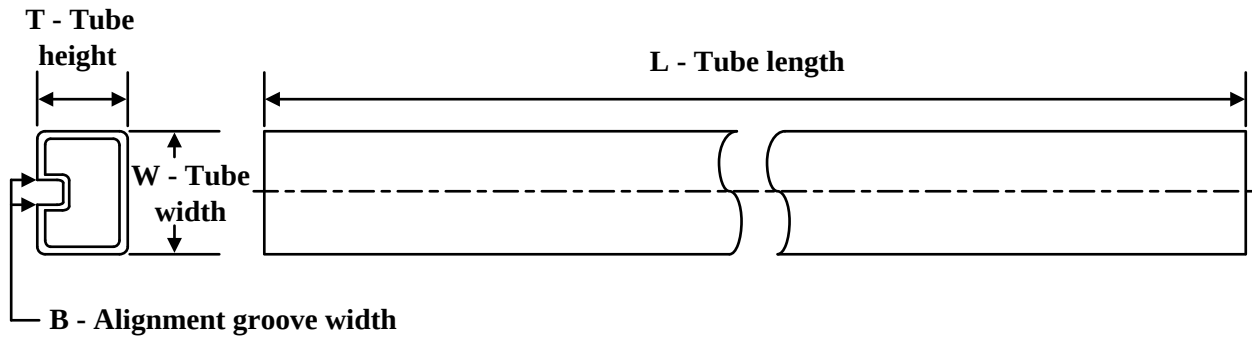
Device	Package Type	Package Drawing	Pins	SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74ALS623ANSR	SOP	NS	20	2000	330.0	24.4	8.4	13.0	2.5	12.0	24.0	Q1

TAPE AND REEL BOX DIMENSIONS



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ALS623ANSR	SOP	NS	20	2000	356.0	356.0	45.0

TUBE


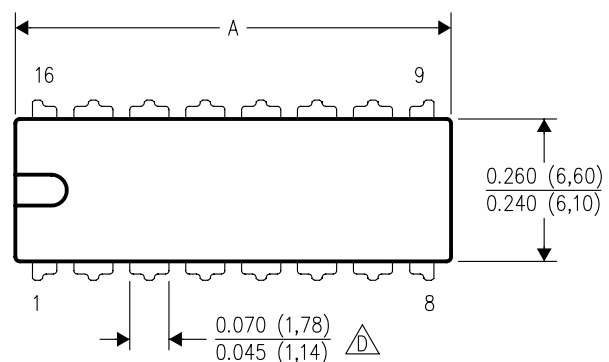
*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (μm)	B (mm)
SN74ALS620ADW	DW	SOIC	20	25	507	12.83	5080	6.6
SN74ALS620ADW.A	DW	SOIC	20	25	507	12.83	5080	6.6
SN74ALS620AN	N	PDIP	20	20	506	13.97	11230	4.32
SN74ALS620AN.A	N	PDIP	20	20	506	13.97	11230	4.32
SN74ALS621A-1N	N	PDIP	20	20	506	13.97	11230	4.32
SN74ALS621A-1N.A	N	PDIP	20	20	506	13.97	11230	4.32
SN74ALS621ADW	DW	SOIC	20	25	507	12.83	5080	6.6
SN74ALS621ADW.A	DW	SOIC	20	25	507	12.83	5080	6.6
SN74ALS621AN	N	PDIP	20	20	506	13.97	11230	4.32
SN74ALS621AN.A	N	PDIP	20	20	506	13.97	11230	4.32
SN74ALS623ADW	DW	SOIC	20	25	507	12.83	5080	6.6
SN74ALS623ADW.A	DW	SOIC	20	25	507	12.83	5080	6.6
SN74ALS623AN	N	PDIP	20	20	506	13.97	11230	4.32
SN74ALS623AN.A	N	PDIP	20	20	506	13.97	11230	4.32

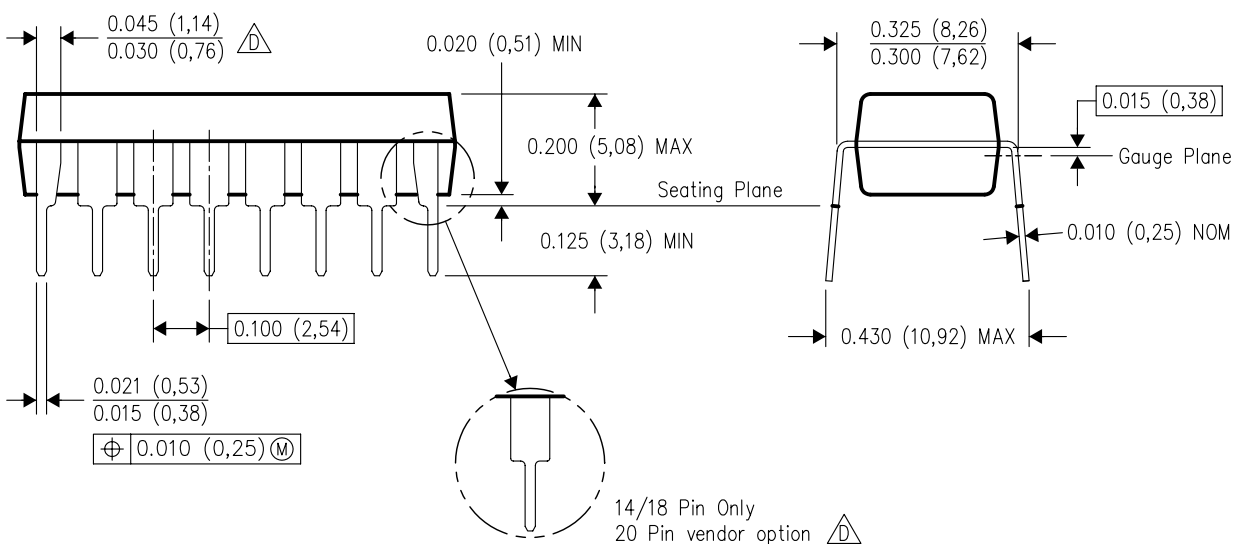
N (R-PDIP-T**)

16 PINS SHOWN

PLASTIC DUAL-IN-LINE PACKAGE



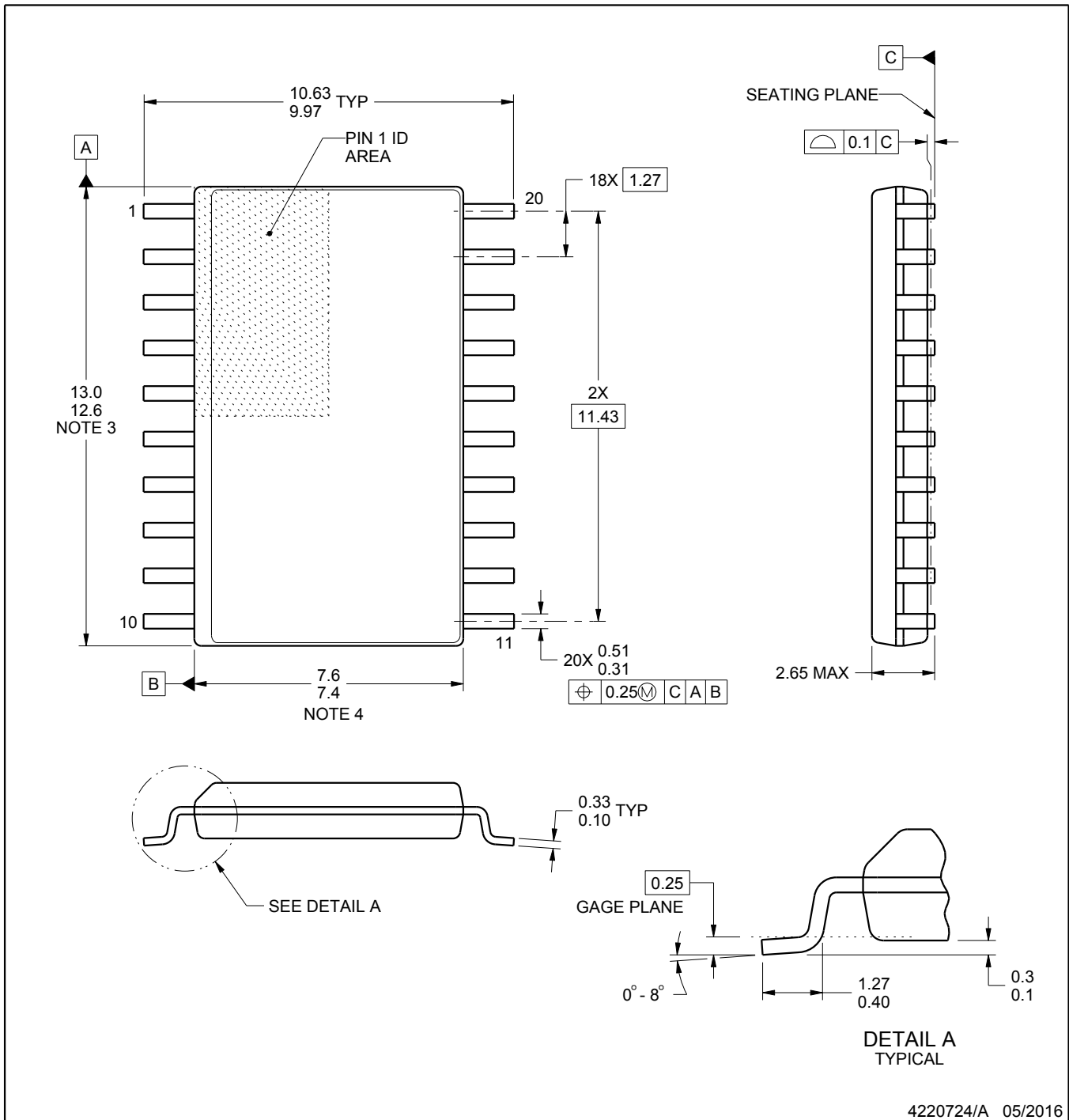
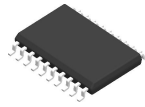
PINS ** DIM	14	16	18	20
A MAX	0.775 (19,69)	0.775 (19,69)	0.920 (23,37)	1.060 (26,92)
A MIN	0.745 (18,92)	0.745 (18,92)	0.850 (21,59)	0.940 (23,88)
MS-001 VARIATION	AA	BB	AC	AD



4040049/E 12/2002

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).
 The 20 pin end lead shoulder width is a vendor option, either half or full width.



4220724/A 05/2016

NOTES:

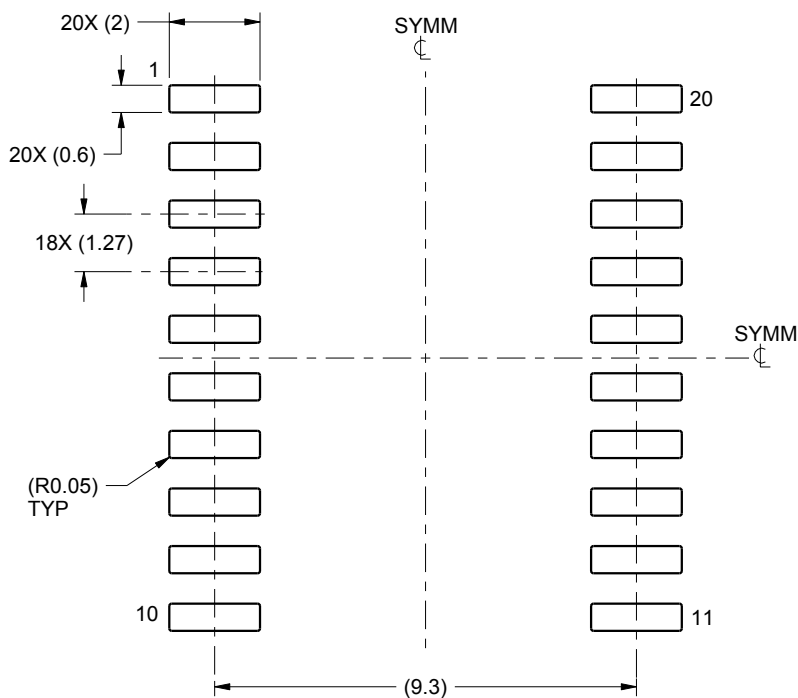
1. All linear dimensions are in millimeters. Dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.
2. This drawing is subject to change without notice.
3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.15 mm per side.
4. This dimension does not include interlead flash. Interlead flash shall not exceed 0.43 mm per side.
5. Reference JEDEC registration MS-013.

EXAMPLE BOARD LAYOUT

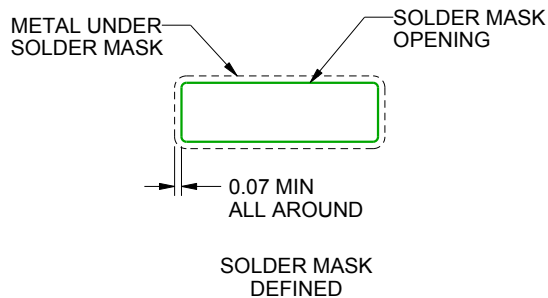
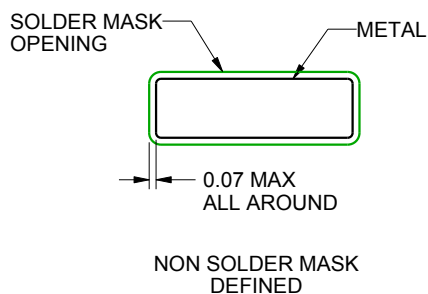
DW0020A

SOIC - 2.65 mm max height

SOIC



LAND PATTERN EXAMPLE
SCALE:6X



SOLDER MASK DETAILS

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NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

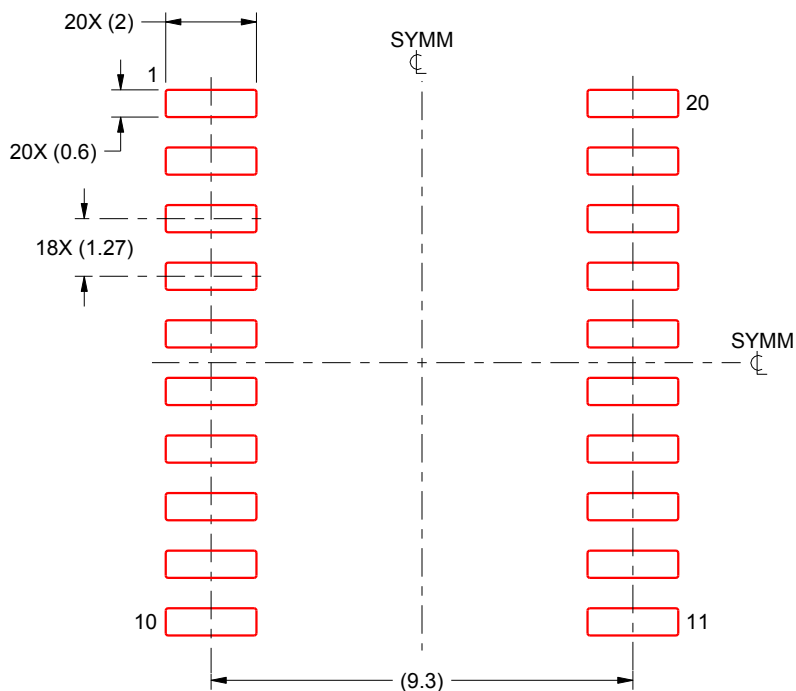
7. Solder mask tolerances between and around signal pads can vary based on board fabrication site.

EXAMPLE STENCIL DESIGN

DW0020A

SOIC - 2.65 mm max height

SOIC



SOLDER PASTE EXAMPLE
BASED ON 0.125 mm THICK STENCIL
SCALE:6X

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NOTES: (continued)

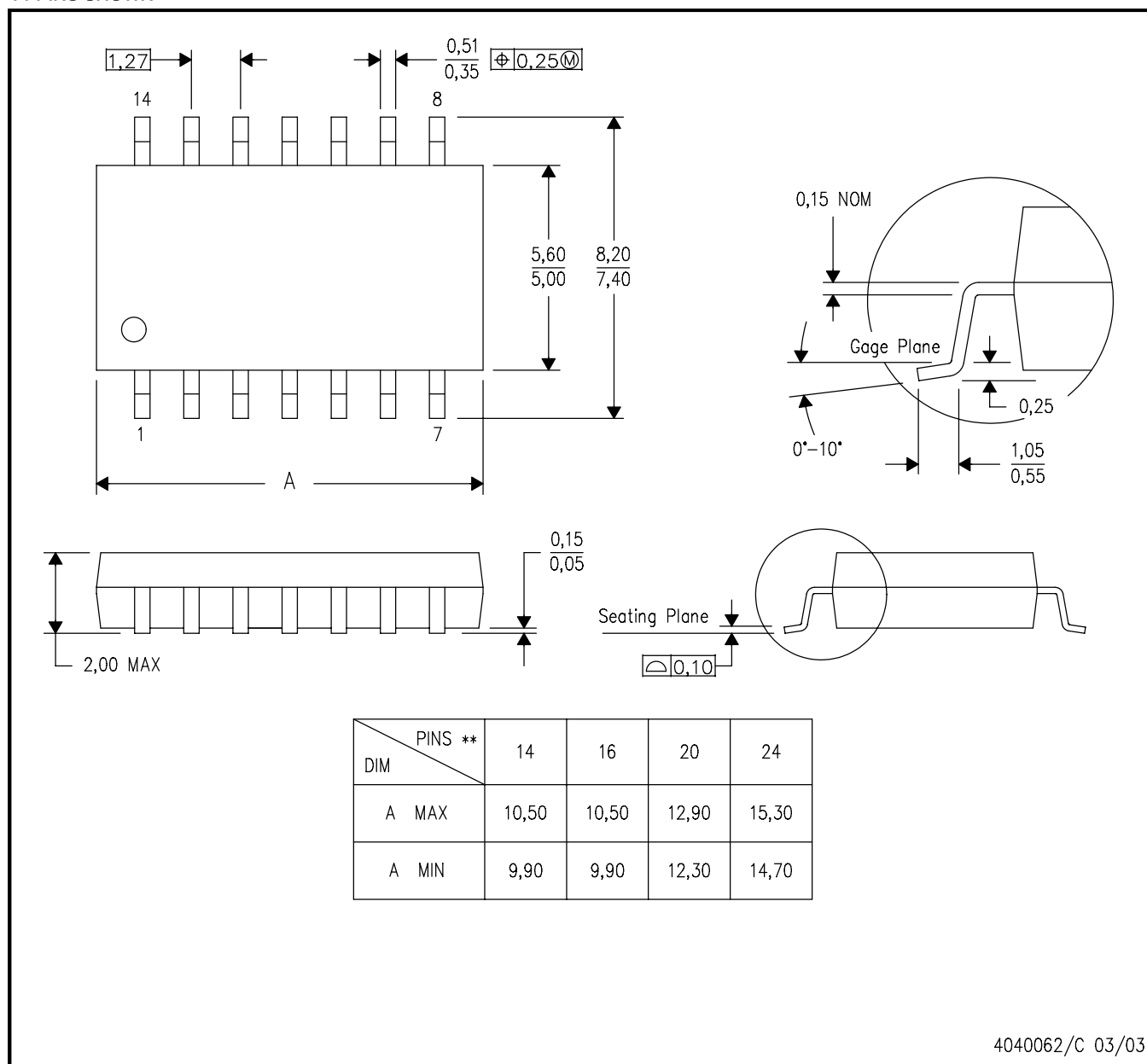
8. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
9. Board assembly site may have different recommendations for stencil design.

MECHANICAL DATA

NS (R-PDSO-G**)

PLASTIC SMALL-OUTLINE PACKAGE

14-PINS SHOWN



- NOTES:
- All linear dimensions are in millimeters.
 - This drawing is subject to change without notice.
 - Body dimensions do not include mold flash or protrusion, not to exceed 0,15.

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