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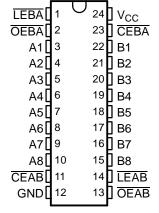
SN74LVC543A OCTAL REGISTERED TRANSCEIVER WITH 3-STATE OUTPUTS

SCAS299H-JANUARY 1993-REVISED MARCH 2005

FEATURES

- Operates From 1.65 V to 3.6 V
- Inputs Accept Voltages to 5.5 V
- Max t_{pd} of 7 ns at 3.3 V
- Typical V_{OLP} (Output Ground Bounce)
 <0.8 V at V_{CC} = 3.3 V, T_A = 25°C
- Typical V_{OHV} (Output V_{OH} Undershoot)
 >2 V at V_{CC} = 3.3 V, T_A = 25°C
- Supports Mixed-Mode Signal Operation on All Ports (5-V Input/Output Voltage With 3.3-V V_{CC})
- I_{off} Supports Partial-Power-Down Mode Operation
- Latch-Up Performance Exceeds 250 mA Per JESD 17

DB, DW, OR PW PACKAGE (TOP VIEW)



DESCRIPTION/ORDERING INFORMATION

This octal registered transceiver is designed for 1.65-V to 3.6-V V_{CC} operation.

The SN74LVC543A contains two sets of D-type latches for temporary storage of data flowing in either direction. Separate latch-enable (LEAB or LEBA) and output-enable (OEAB or OEBA) inputs are provided for each register to permit independent control in either direction of data flow.

The A-to-B enable (CEAB) input must be low to enter data from A or to output data from B. If CEAB is low and LEAB is low, the A-to-B latches are transparent; a subsequent low-to-high transition of LEAB places the A latches in the storage mode. With CEAB and OEAB both low, the 3-state B outputs are active and reflect the data present at the output of the A latches. Data flow for B to A is similar to that of A to B, but uses CEBA, LEBA, and OEBA.

This device is fully specified for partial-power-down applications using I_{off} . The I_{off} circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.

To ensure the high-impedance state during power up or power down, \overline{OE} should be tied to V_{CC} through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

Inputs can be driven from either 3.3-V or 5-V devices. This feature allows the use of these devices as translators in a mixed 3.3-V/5-V system environment.

ORDERING INFORMATION

T _A	PACKAGE ⁽¹⁾		ORDERABLE PART NUMBER	TOP-SIDE MARKING	
	SOIC – DW	Tube of 25	SN74LVC543ADW	LVC543A	
		Reel of 2000	SN74LVC543ADWR	LVC343A	
-40°C to 85°C	SSOP – DB	Reel of 2000	SN74LVC543ADBR	LC543A	
-40°C 10 65°C	TSSOP – PW	Tube of 60	SN74LVC543APW		
		Reel of 2000	SN74LVC543APWR	LC543A	
		Reel of 250	SN74LVC543APWT		

(1) 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.

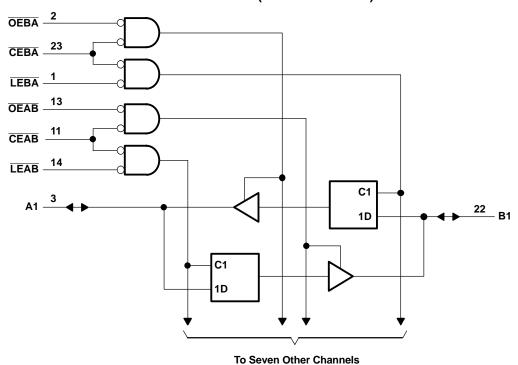


FUNCTION TABLE⁽¹⁾

	INPU	ITS		OUTPUT
CEAB	LEAB	OEAB	Α	В
Н	Х	Х	Х	Z
X	Χ	Н	Χ	Z
L	Н	L	Χ	B ₀ ⁽²⁾
L	L	L	L	L
L	L	L	Н	Н

- (1) A-to-B data flow is shown; B-to-A flow control is the same, except that it uses CEBA, LEBA, and OEBA.
- (2) Output level before the indicated steady-state input conditions were established

LOGIC DIAGRAM (POSITIVE LOGIC)





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Absolute Maximum Ratings⁽¹⁾

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

			MIN	MAX	UNIT
V_{CC}	Supply voltage range		-0.5	6.5	V
VI	Input voltage range ⁽²⁾		-0.5	6.5	V
Vo	Voltage range applied to any output in the hi	Voltage range applied to any output in the high-impedance or power-off state (2)		6.5	V
Vo	Voltage range applied to any output in the hi	igh or low state ⁽²⁾⁽³⁾	-0.5	V _{CC} + 0.5	V
I _{IK}	Input clamp current	V _I < 0		-50	mA
I _{OK}	Output clamp current	V _O < 0		-50	mA
Io	Continuous output current	·		±50	mA
	Continuous current through V _{CC} or GND			±100	mA
		DB package		63	
θ_{JA}	Package thermal impedance (4)	DW package		46	°C/W
		PW package		88	
T _{stg}	Storage temperature range		-65	150	°C

⁽¹⁾ 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.

(2) The input negative-voltage and output voltage ratings may be exceeded if the input and output current ratings are observed.

Recommended Operating Conditions(1)

			MIN	MAX	UNIT	
V	Cumply valtage	Operating	1.65	3.6	V	
V_{CC}	Supply voltage	Data retention only	1.5		V	
		V _{CC} = 1.65 V to 1.95 V	$0.65 \times V_{CC}$			
V_{IH}	High-level input voltage	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.7		V	
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	2			
		V _{CC} = 1.65 V to 1.95 V		$0.35 \times V_{CC}$		
V_{IL}	Low-level input voltage	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		0.7	V	
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$		0.8		
VI	Input voltage		0	5.5	V	
.,	Output valle se	High or low state	0	V_{CC}	V	
Vo	Output voltage	3-state	0	5.5	V	
		V _{CC} = 1.65 V		-4		
	Lligh level output ourrent	V _{CC} = 2.3 V		-8		
I _{OH}	High-level output current	V _{CC} = 2.7 V		-12	mA	
		V _{CC} = 3 V		-24		
		V _{CC} = 1.65 V		4		
	Lour lovel output ourrent	V _{CC} = 2.3 V	8 12		A	
l _{OL}	Low-level output current	V _{CC} = 2.7 V			mA	
		V _{CC} = 3 V		24		
Δt/Δν	Input transition rise or fall rate			10	ns/V	
T _A	Operating free-air temperature		-40	85	°C	

⁽¹⁾ 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.

⁽³⁾ The value of V_{CC} is provided in the recommended operating conditions table.

⁽⁴⁾ The package thermal impedance is calculated in accordance with JESD 51-7.

SN74LVC543A **OCTAL REGISTERED TRANSCEIVER** WITH 3-STATE OUTPUTS

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Electrical Characteristics

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

PARAMETER TEST CONDITIONS			V _{cc}	MIN	TYP ⁽¹⁾	MAX	UNIT	
		$I_{OH} = -100 \mu A$		1.65 V to 3.6 V	V _{CC} - 0.2			
		$I_{OH} = -4 \text{ mA}$		1.65 V	1.2			
1/		$I_{OH} = -8 \text{ mA}$	2.3 V	1.7			V	
V _{OH}		12 m	10 10					V
		$I_{OH} = -12 \text{ mA}$	3 V	2.4				
		$I_{OH} = -24 \text{ mA}$	3 V	2.2				
		I _{OL} = 100 μA		1.65 V to 3.6 V			0.2	
V _{OL}		I _{OL} = 4 mA	1.65 V			0.45		
		I _{OL} = 8 mA	2.3 V			0.7	V	
		I _{OL} = 12 mA	2.7 V			0.4		
		I _{OL} = 24 mA	3 V			0.55		
I	Control inputs	V _I = 0 to 5.5 V		3.6 V			±5	μΑ
I _{off}		V_I or $V_O = 5.5 \text{ V}$		0			±10	μΑ
I _{OZ} ⁽²⁾		V _O = 0 to 5.5 V		3.6 V			±10	μΑ
		V _I = V _{CC} or GND		3.6 V			10	
Icc		$3.6 \text{ V} \le \text{V}_{\text{I}} \le 5.5 \text{ V}^{(3)}$	$I_O = 0$	3.0 V	10		μΑ	
ΔI_{CC}	ΔI_{CC} One input at $V_{CC} - 0.6 \text{ V}$, Other inputs at V_{CC} or GND		V _{CC} or GND	2.7 V to 3.6 V			500	μΑ
Ci	Control inputs	V _I = V _{CC} or GND		3.3 V		4.5		pF
C _{io}	A or B ports	V _O = V _{CC} or GND		3.3 V		7.5		pF

Timing Requirements

over recommended operating free-air temperature range (unless otherwise noted) (see Figure 1)

		V _{CC} = ± 0.1	V_{CC} = 1.8 V \pm 0.15 V		V_{CC} = 2.5 V \pm 0.2 V		V _{CC} = 2.7 V		V_{CC} = 3.3 V \pm 0.3 V	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _w	Pulse duration	(1)		(1)		3.3		3.3		ns
t _{su}	Setup time, data before LE↑ or CE↑	(1)		(1)		1.6		1.6		ns
t _h	Hold time, data after LE↑ or CE↑	(1)		(1)		2.1		2.1		ns

⁽¹⁾ This information was not available at the time of publication.

Switching Characteristics

over recommended operating free-air temperature range (unless otherwise noted) (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 1.8 V ± 0.15 V		V_{CC} = 2.5 V \pm 0.2 V		V _{CC} = 2.7 V		V _{CC} = 3.3 V ± 0.3 V		UNIT
	(INFOT)	(001701)	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
	A or B	B or A	(1)	(1)	(1)	(1)		8	1	7	
t _{pd}	<u>LE</u>		(1)	(1)	(1)	(1)		9.5	1.2	8.5	ns
	ŌĒ	A == D	(1)	(1)	(1)	(1)		9.2	1.3	7.7	
t _{en}	CE	A or B	(1)	(1)	(1)	(1)		9.3	1.3	8	ns
	ŌĒ	A == D	(1)	(1)	(1)	(1)		7.5	1	7	
t _{dis}	CE	A or B	(1)	(1)	(1)	(1)		7.5	1	7	ns

⁽¹⁾ This information was not available at the time of publication.

⁽¹⁾ All typical values are at $V_{CC} = 3.3 \text{ V}$, $T_A = 25^{\circ}\text{C}$. (2) For I/O ports, the parameter I_{OZ} includes the input leakage current.

This applies in the disabled state only.





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Operating Characteristics

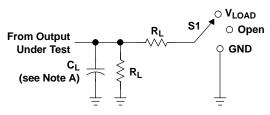
 $T_A = 25^{\circ}C$

PARAMETER		TEST CONDITIONS	V _{CC} = 1.8 V TYP	V _{CC} = 2.5 V TYP	V _{CC} = 3.3 V TYP	UNIT	
_	Power dissipation capacitance	Outputs enabled	f = 10 MHz	(1)	(1)	49	ρF
	per transceiver	Outputs disabled	1 = 10 WINZ	(1)	(1)	6	рг

⁽¹⁾ This information was not available at the time of publication.



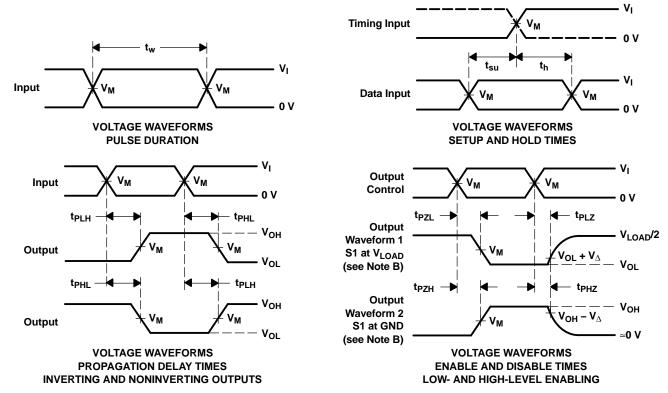
PARAMETER MEASUREMENT INFORMATION



TEST	S1
t _{PLH} /t _{PHL}	Open
t _{PLZ} /t _{PZL}	V _{LOAD}
t _{PHZ} /t _{PZH}	GND

LOAD CIRCUIT

	INF	PUTS	.,	.,		_	.,
V _{CC}	VI	t _r /t _f	V _M	V _{LOAD}	CL	R _L	V_{Δ}
1.8 V ± 0.15 V	v _{cc}	≤2 ns	V _{CC} /2	2×V _{CC}	30 pF	1 k Ω	0.15 V
2.5 V \pm 0.2 V	V _{CC}	≤2 ns	V _{CC} /2	2×V _{CC}	30 pF	500 Ω	0.15 V
2.7 V	2.7 V	≤2.5 ns	1.5 V	6 V	50 pF	500 Ω	0.3 V
3.3 V \pm 0.3 V	2.7 V	≤2.5 ns	1.5 V	6 V	50 pF	500 Ω	0.3 V



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. All input pulses are supplied by generators having the following characteristics: PRR ≤ 10 MHz, Z_O = 50 Ω.
- D. The outputs are measured one at a time, with one transition per measurement.
- E. t_{PLZ} and t_{PHZ} are the same as t_{dis} .
- F. t_{PZL} and t_{PZH} are the same as t_{en}.
- G. t_{PLH} and t_{PHL} are the same as t_{pd}.
- H. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms

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PACKAGING INFORMATION

Orderable part number	Status	Material type	Package Pins	Package qty Carrier	RoHS	Lead finish/	MSL rating/	Op temp (°C)	Part marking
	(1)	(2)			(3)	Ball material	Peak reflow		(6)
						(4)	(5)		
SN74LVC543ADBR	Active	Production	SSOP (DB) 24	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	LC543A
SN74LVC543ADBR.B	Active	Production	SSOP (DB) 24	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	LC543A
SN74LVC543ADW	Active	Production	SOIC (DW) 24	25 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	LVC543A
SN74LVC543ADW.B	Active	Production	SOIC (DW) 24	25 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	LVC543A
SN74LVC543ADWR	Active	Production	SOIC (DW) 24	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	LVC543A
SN74LVC543ADWR.B	Active	Production	SOIC (DW) 24	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	LVC543A
SN74LVC543APW	Active	Production	TSSOP (PW) 24	60 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	LC543A
SN74LVC543APW.B	Active	Production	TSSOP (PW) 24	60 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	LC543A
SN74LVC543APWR	Active	Production	TSSOP (PW) 24	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	LC543A
SN74LVC543APWR.B	Active	Production	TSSOP (PW) 24	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	LC543A
SN74LVC543APWT	Active	Production	TSSOP (PW) 24	250 SMALL T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	LC543A
SN74LVC543APWT.B	Active	Production	TSSOP (PW) 24	250 SMALL T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	LC543A

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

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.

⁽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.



PACKAGE OPTION ADDENDUM

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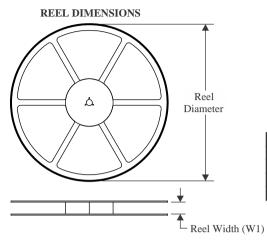
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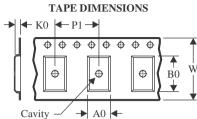
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PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





	•
A0	Dimension designed to accommodate the component width
В0	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

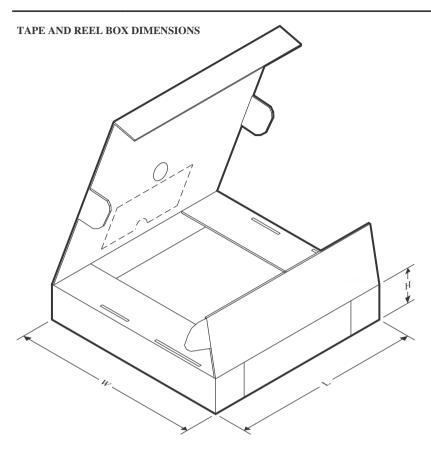
QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

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
SN74LVC543ADBR	SSOP	DB	24	2000	330.0	16.4	8.2	8.8	2.5	12.0	16.0	Q1
SN74LVC543ADWR	SOIC	DW	24	2000	330.0	24.4	10.75	15.7	2.7	12.0	24.0	Q1
SN74LVC543APWR	TSSOP	PW	24	2000	330.0	16.4	6.95	8.3	1.6	8.0	16.0	Q1
SN74LVC543APWT	TSSOP	PW	24	250	330.0	16.4	6.95	8.3	1.6	8.0	16.0	Q1

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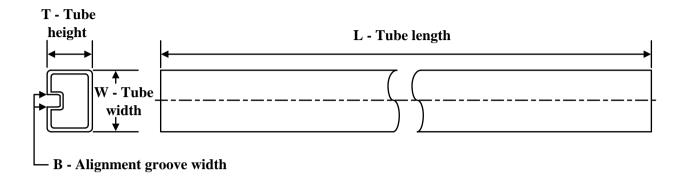
*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LVC543ADBR	SSOP	DB	24	2000	353.0	353.0	32.0
SN74LVC543ADWR	SOIC	DW	24	2000	350.0	350.0	43.0
SN74LVC543APWR	TSSOP	PW	24	2000	353.0	353.0	32.0
SN74LVC543APWT	TSSOP	PW	24	250	353.0	353.0	32.0

PACKAGE MATERIALS INFORMATION

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TUBE

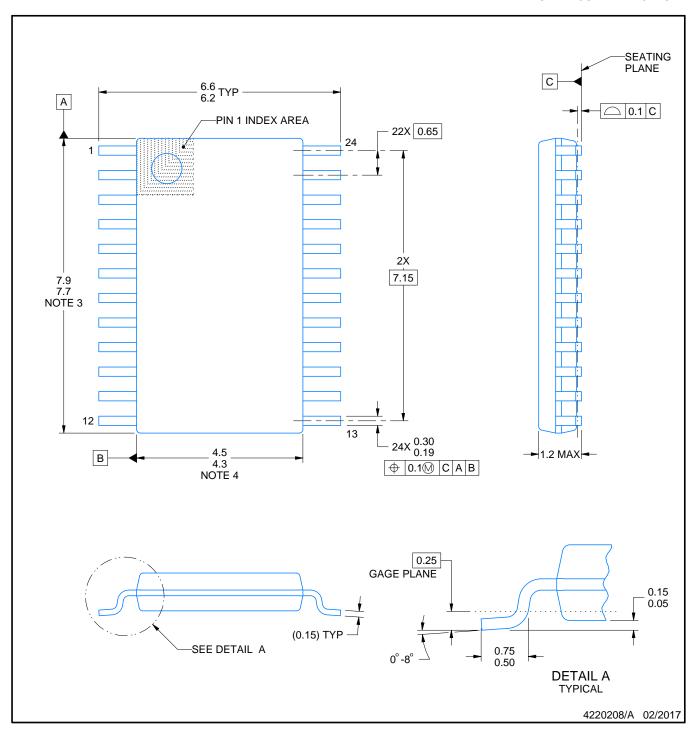


*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
SN74LVC543ADW	DW	SOIC	24	25	506.98	12.7	4826	6.6
SN74LVC543ADW.B	DW	SOIC	24	25	506.98	12.7	4826	6.6
SN74LVC543APW	PW	TSSOP	24	60	530	10.2	3600	3.5
SN74LVC543APW.B	PW	TSSOP	24	60	530	10.2	3600	3.5



SMALL OUTLINE PACKAGE



NOTES:

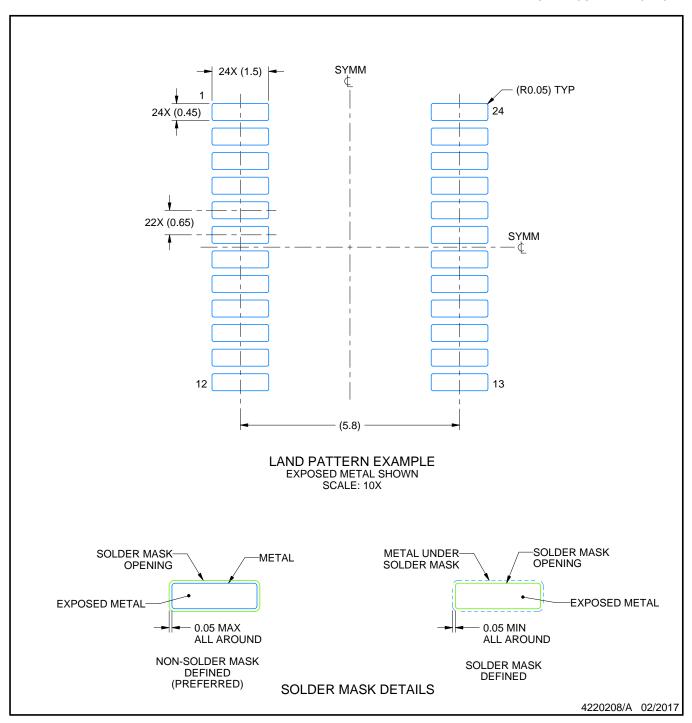
- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.

 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 0.25 mm per side.
- 5. Reference JEDEC registration MO-153.



SMALL OUTLINE PACKAGE



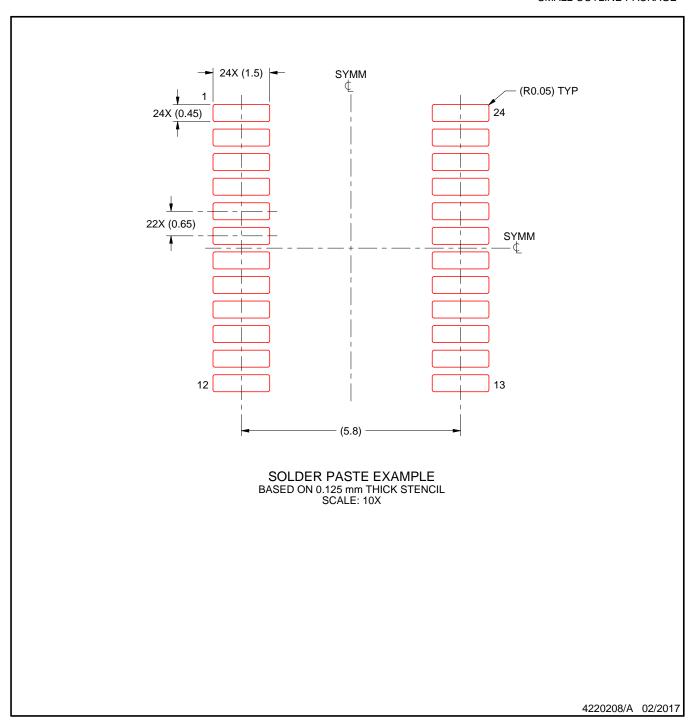
NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

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



SMALL OUTLINE PACKAGE



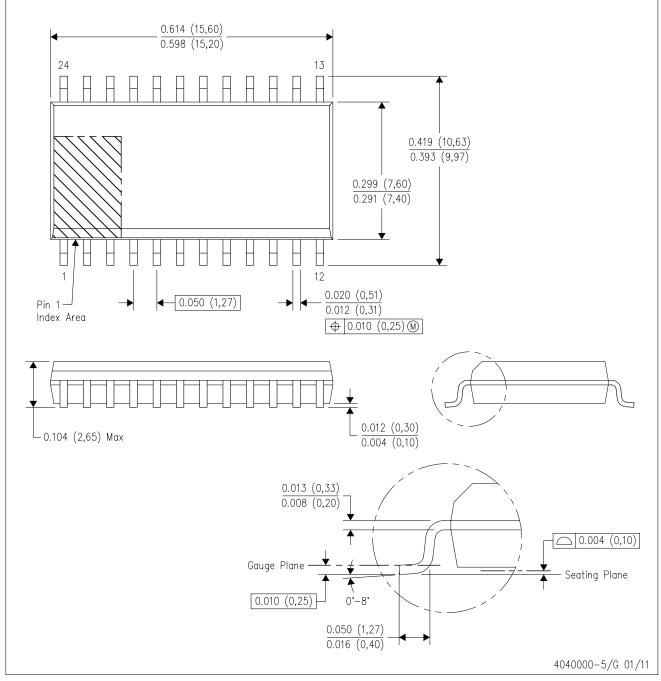
NOTES: (continued)

- 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.



DW (R-PDSO-G24)

PLASTIC SMALL OUTLINE



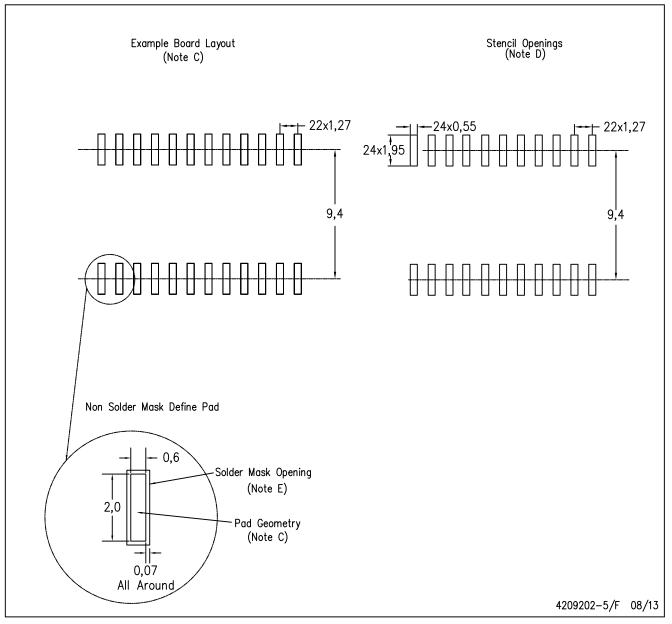
NOTES: A. All linear dimensions are in inches (millimeters). Dimensioning and tolerancing per ASME Y14.5M-1994.

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion not to exceed 0.006 (0,15).
- D. Falls within JEDEC MS-013 variation AD.



DW (R-PDSO-G24)

PLASTIC SMALL OUTLINE



NOTES:

- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Refer to IPC7351 for alternate board design.
- 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
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



DB (R-PDSO-G**)

PLASTIC SMALL-OUTLINE

28 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.

D. Falls within JEDEC MO-150

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