DW OR N PACKAGE

SDAS300 - MARCH 1995

- Bidirectional Bus Transceivers in High-Density 20-Pin Packages
- Choice of True or Inverting Logic
- Package Options Include Plastic Small-Outline (DW) Packages and Standard Plastic (N) 300-mil DIPs

DEVICE	LOGIC
SN74ALS641A, SN74AS641	True
SN74ALS642A	Inverting

(TOP VIEW) DIR [19 OE A1 **∏** 2 18**∏** B1 A2 **∏** 3 A3 🛮 4 17 ∏ B2 A4 🛮 5 16**∏** B3 A5 🛮 6 15 B4 14**∏** B5 A6 📗 A7 🛮 8 13 **∏** B6 A8 **∏** 9 12 B7 GND 10 11 🛮 B8

description

These octal bus transceivers are designed for asynchronous two-way communication between

data buses. These devices transmit data from the A bus to the B bus or from the B bus to the A bus, depending upon the level at the direction-control (DIR) input. The output-enable (\overline{OE}) input disables the device so that the buses are effectively isolated.

The -1 versions of the SN74ALS641A and SN74ALS642A are identical to the standard versions, except that the recommended maximum I_{OL} is increased to 48 mA in the -1 versions.

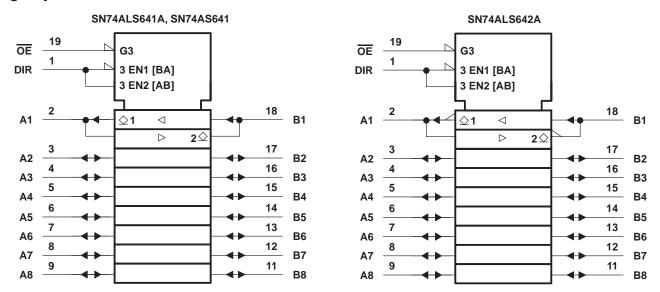
The SN74ALS641A, SN74ALS642A, and SN74AS641 are characterized for operation from 0°C to 70°C.

FUNCTION TABLE

INP	UTS	OPERATION					
ŌĒ	DIR	SN74ALS641A SN74AS641	SN74ALS642A				
L	L	B data to A bus	B data to A bus				
L	Н	A data to B bus	A data to B bus				
Н	X	Isolation	Isolation				

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logic symbols†

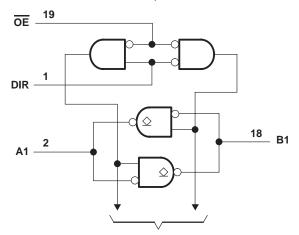


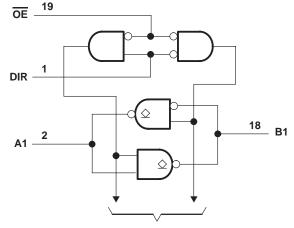
[†] These symbols are in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12.

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logic diagrams (positive logic)

SN74ALS641A, SN74AS641





SN74ALS642A

To Seven Other Transceivers

To Seven Other Transceivers

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, TA:	SN74ALS641A, SN74ALS642A	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

		SN7 SN7	UNIT			
		MIN	MIN NOM MAX			
VCC	Supply voltage	4.5	5	5.5	V	
V_{IH}	High-level input voltage	2			V	
V_{IL}	Low-level input voltage			8.0	V	
Vон	High-level output voltage			5.5	V	
				24	A	
lor	Low-level output current			48‡	mA	
TA	Operating free-air temperature	0	•	70	°C	

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

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

	PARAMETER	TEST CO	_	SN74ALS641A SN74ALS642A			
				MIN	TYP†	MAX	
٧ıK		$V_{CC} = 4.5 \text{ V},$	I _I = –18 mA			-1.5	V
I _{OH}		$V_{CC} = 4.5 \text{ V},$	V _{OH} = 5.5 V			0.1	mA
			I _{OL} = 12 mA		0.25	0.4	
VOL		V _{CC} = 4.5 V	I _{OL} = 24 mA		0.35	0.5	V
			$I_{OL} = 48 \text{ mA}^{\ddagger}$		0.35	0.5	
II	Control inputs	$V_{CC} = 5.5 V$,	V _I = 7 V			0.1	mA
	Control inputs	V 55V	V 07V			20	^
lн	A or B ports§	$V_{CC} = 5.5 V,$	$V_{I} = 2.7 \text{ V}$			20	μΑ
	Control inputs	V 55V				-0.1	
ΊL	A or B ports§	$V_{CC} = 5.5 \text{ V},$	$V_{I} = 0.4 V$			-0.1	mA
	017441.00444	V 55V	Outputs high		25	37	
	SN74ALS641A	$V_{CC} = 5.5 V$	Outputs low		33	47	mA
Icc	SN74ALS642A	V00 - F F V	Outputs high		8	15	IIIA
	3N/4AL3042A	V _{CC} = 5.5 V	Outputs low		18	28	

 $[\]overline{\dagger}$ All typical values are at V_{CC} = 5 V, T_A = 25°C.

switching characteristics (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V ₍ C _I R _I T _A	UNIT			
			SN74AL	S641A	SN74ALS642A		
			MIN	MAX	MIN	MAX	
t _{PLH}	A D	5 4	5	25	10	30	
^t PHL	A or B	B or A	3	18	5	22	ns
^t PLH			8	30	10	30	
^t PHL	ŌĒ	A or B	8	30	15	38	ns
^t PLH	DIR	A or B	8	32	10	30	
^t PHL	אוט	AUID	8	32	15	38	ns

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

 $[\]ddagger$ Applies only to the -1 version and only if VCC 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.

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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 and I/O ports	7 V
Operating free-air temperature range, T _A : SN74AS641	0°C to 70°C
Storage temperature range	-65°C to 150°C

recommended operating conditions

		SN74AS641			LINUT
		MIN	NOM	MAX	UNIT
VCC	Supply voltage	4.5	5	5.5	V
VIH	High-level input voltage	2			V
V _{IL}	Low-level input voltage			0.8	V
Vон	High-level output voltage			5.5	V
I _{OL}	Low-level output current			64	mA
TA	Operating free-air temperature	0		70	°C

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

			SN	1				
	PARAMETER	TEST Co	MIN	TYP‡	MAX	UNIT		
VIK		V _{CC} = 4.5 V,	I _I = –18 mA			-1.2	V	
loh		V _{CC} = 4.5 V,	V _{OH} = 5.5 V			0.1	mA	
VOL		V _{CC} = 4.5 V,	I _{OL} = 64 mA		0.35	0.55	V	
I _I	Control inputs	V 55V	V _I = 7 V			0.1	4	
	A or B ports	$V_{CC} = 5.5 V$	V _I = 5.5 V			0.1	mA	
	Control inputs	.,				20		
ΙΗ	A or B ports§	$V_{CC} = 5.5 \text{ V},$	$V_{ } = 2.7 \text{ V}$			70	μΑ	
	Control inputs		V 0.4V			-0.5		
IIL	A or B ports§	$V_{CC} = 5.5 \text{ V},$	$V_I = 0.4 V$			-0.75	mA	
1		Vac EEV	Outputs high		50	82	A	
ICC		$V_{CC} = 5.5 V$	Outputs low		84	136	mA	

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

[†] 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.

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

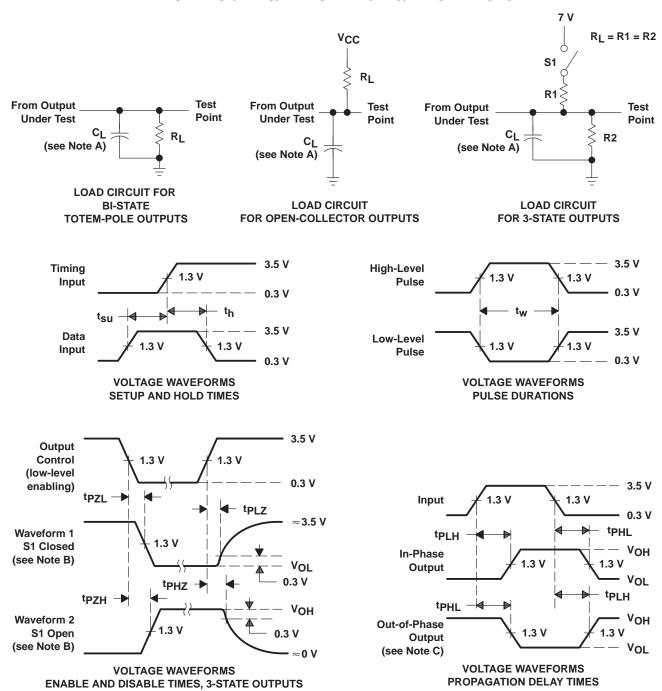
switching characteristics (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 4.5 C _L = 50 pF R _L = 680 Ω T _A = MIN to SN74A	UNIT	
t _{PLH}	A D		5	21	
^t PHL	A or B	B or A	1	7.5	ns
t _{PLH}	ŌĒ	A B	5	21	
^t PHL	OE	A or B	1	9	ns
^t PLH	DIR	A or B	5	22	ne
^t PHL	DIR	AUIB	1	10	ns

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

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



NOTES: A. C_I 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.
- All input pulses have the following characteristics: PRR \leq 1 MHz, $t_r = t_f = 2$ ns, duty cycle = 50%.
- The outputs are measured one at a time with one transition per measurement.

Figure 1. Load Circuits and Voltage Waveforms







24-Aug-2018

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)	
SN74ALS641A-1DW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	ALS641A-1	Samples
SN74ALS641A-1DWR	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	ALS641A-1	Samples
SN74ALS641A-1N	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN74ALS641A-1N	Samples
SN74ALS641A-1NSR	ACTIVE	so	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	ALS641A-1	Samples
SN74ALS641ADW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	ALS641A	Samples
SN74ALS641ADWR	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	ALS641A	Samples
SN74ALS641AN	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN74ALS641AN	Samples
SN74ALS641ANSR	ACTIVE	so	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	ALS641A	Samples
SN74ALS642A-1DW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	ALS642A-1	Samples
SN74ALS642A-1N	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN74ALS642A-1N	Samples
SN74ALS642A-1NSR	ACTIVE	so	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	ALS642A-1	Samples
SN74AS641DW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	AS641	Samples
SN74AS641N	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN74AS641N	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.



PACKAGE OPTION ADDENDUM

24-Aug-2018

(2) RoHS: TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

RoHS Exempt: TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

Green: TI defines "Green" to mean the content of Chlorine (CI) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.

- (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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PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





	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
SN74ALS641A-1DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
SN74ALS641A-1NSR	SO	NS	20	2000	330.0	24.4	8.4	13.0	2.5	12.0	24.0	Q1
SN74ALS641ADWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
SN74ALS641ANSR	SO	NS	20	2000	330.0	24.4	8.4	13.0	2.5	12.0	24.0	Q1
SN74ALS642A-1NSR	SO	NS	20	2000	330.0	24.4	8.4	13.0	2.5	12.0	24.0	Q1

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*All dimensions are nominal

7 til diffictionolog are floriffial							
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ALS641A-1DWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74ALS641A-1NSR	SO	NS	20	2000	367.0	367.0	45.0
SN74ALS641ADWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74ALS641ANSR	SO	NS	20	2000	367.0	367.0	45.0
SN74ALS642A-1NSR	SO	NS	20	2000	367.0	367.0	45.0

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.
- 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.





SOIC



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.



SOIC



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.



SOIC



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**)

14-PINS SHOWN

PLASTIC SMALL-OUTLINE PACKAGE



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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<u>SN74ALS641ADWE4</u> <u>SN74ALS641ADWRE4</u> <u>SN74ALS641ANSRE4</u> <u>SN74ALS642A-1NSRE4</u> <u>SN74ALS641DWE4</u>
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<u>SN74ALS641ADWRG4</u> SN74AS641DWG4