

SN54ALS157A, SN54ALS158 SN74ALS157A, SN74ALS158, SN74AS157, SN74AS158 QUADRUPLE 1-OF-2 DATA SELECTORS/MULTIPLEXERS

SDAS081C – APRIL 1982 – REVISED DECEMBER 1994

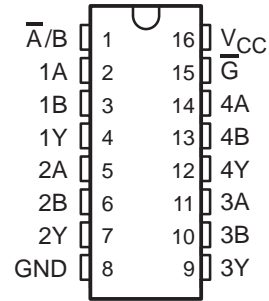
- Buffered Inputs and Outputs
- Package Options Include Plastic Small-Outline (D) Packages, Ceramic Chip Carriers (FK), and Standard Plastic (N) and Ceramic (J) 300-mil DIPs

description

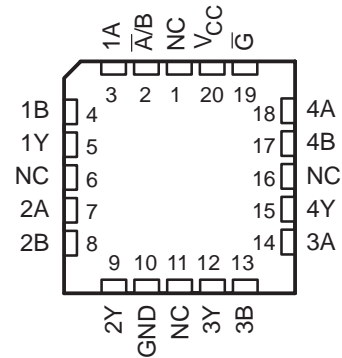
These data selectors/multiplexers contain inverters and drivers to supply full data selection to the four output gates. A separate strobe (\overline{G}) input is provided. A 4-bit word is selected from one of two sources and is routed to the four outputs. The 'ALS157A and SN74AS157 present true data. The 'ALS158 and SN74AS158 present inverted data to minimize propagation delay time.

The SN54ALS157A and SN54ALS158 are characterized for operation over the full military temperature range of -55°C to 125°C . The SN74ALS157A, SN74ALS158, SN74AS157, and SN74AS158 are characterized for operation from 0°C to 70°C .

SN54ALS157A, SN54ALS158 . . . J PACKAGE
SN74ALS157A, SN74ALS158,
SN74AS157, SN74AS158 . . . D OR N PACKAGE
(TOP VIEW)



SN54ALS157A, SN54ALS158 . . . FK PACKAGE
(TOP VIEW)



NC – No internal connection

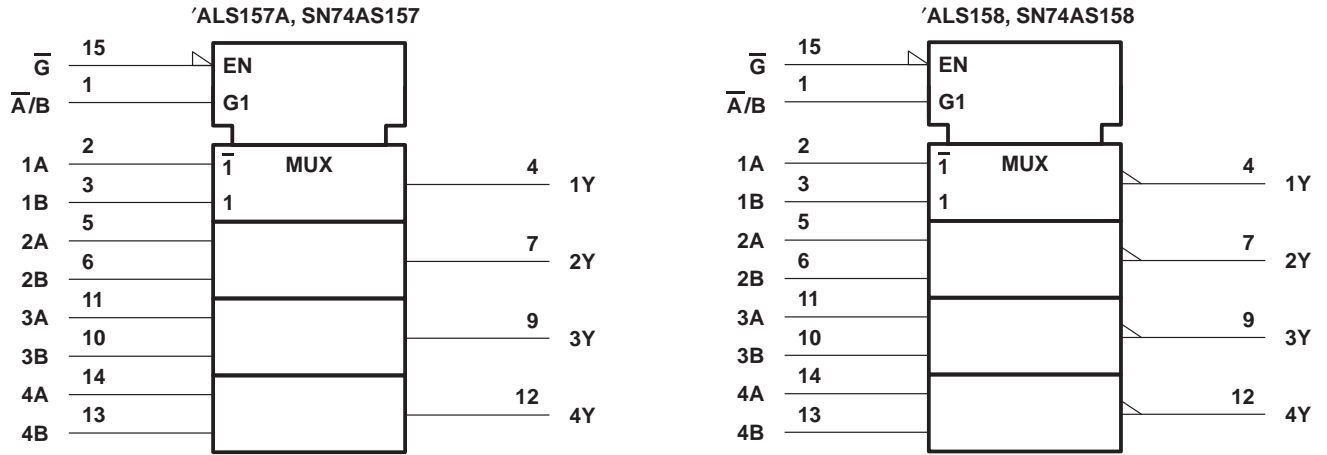
FUNCTION TABLE

INPUTS		OUTPUT Y			
\overline{G}	$\overline{A/B}$	DATA		'ALS157A SN74AS157	'ALS158 SN74AS158
		A	B		
H	X	X	X	L	H
L	L	L	X	L	H
L	L	H	X	H	L
L	H	X	L	L	H
L	H	X	H	H	L

SN54ALS157A, SN54ALS158
SN74ALS157A, SN74ALS158, SN74AS157, SN74AS158
QUAD 1-OF-2 DATA SELECTORS/MULTIPLEXERS

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logic symbols†

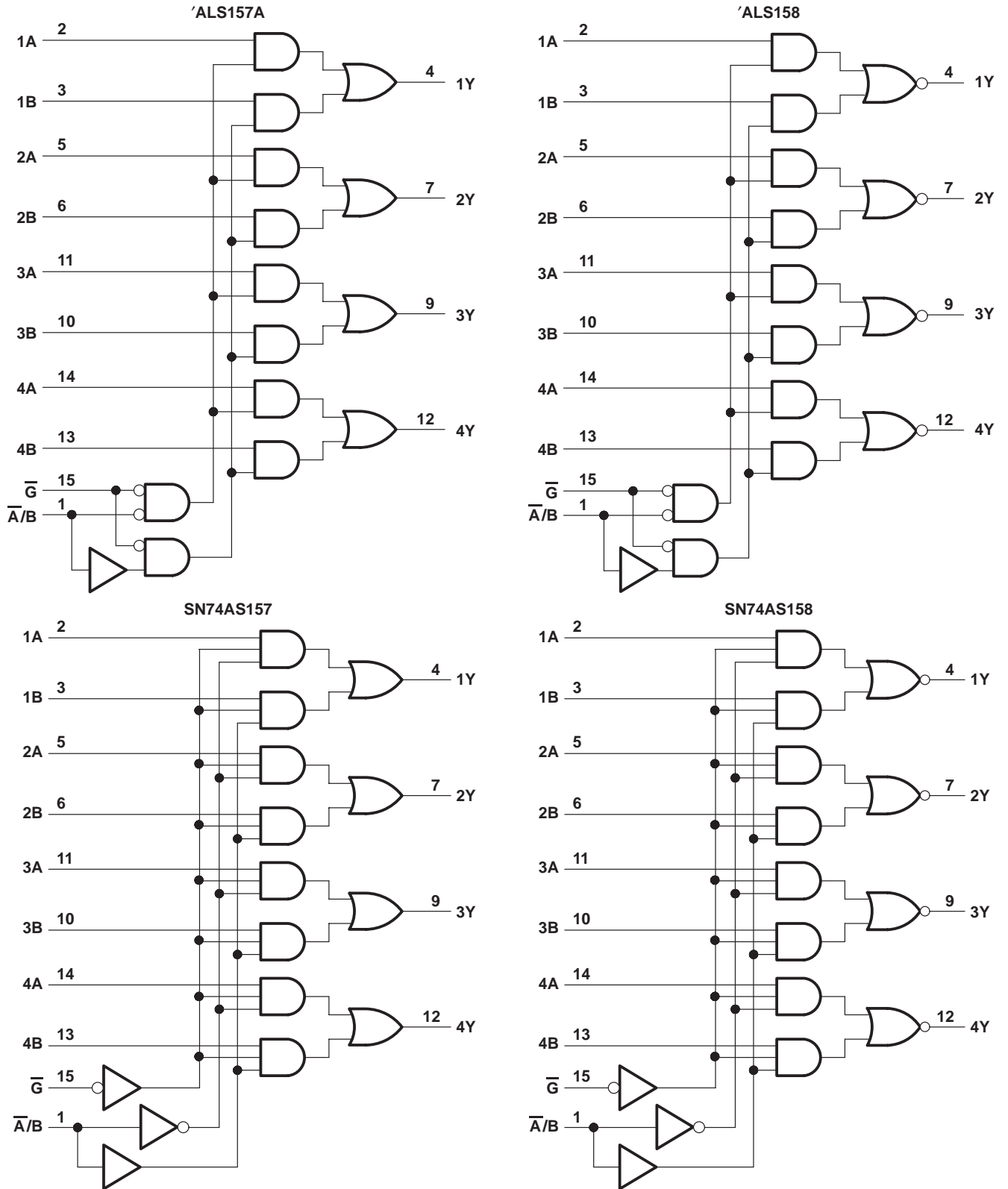


† These symbols are in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12. Pin numbers shown are for the D, J, and N packages.

SN54ALS157A, SN54ALS158
SN74ALS157A, SN74ALS158, SN74AS157, SN74AS158
QUAD 1-OF-2 DATA SELECTORS/MULTIPLEXERS

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logic diagrams (positive logic)



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

SN54ALS157A, SN54ALS158
SN74ALS157A, SN74ALS158, SN74AS157, SN74AS158
QUAD 1-OF-2 DATA SELECTORS/MULTIPLEXERS

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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	7 V
Operating free-air temperature range, T_A : SN54ALS157A, SN54ALS158	-55°C to 125°C
SN74ALS157A, SN74ALS158	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

		SN54ALS157A SN54ALS158			SN74ALS157A SN74ALS158			UNIT
		MIN	NOM	MAX	MIN	NOM	MAX	
V_{CC}	Supply voltage	4.5	5	5.5	4.5	5	5.5	V
V_{IH}	High-level input voltage	2			2			V
V_{IL}	Low-level input voltage			0.7			0.8	V
I_{OH}	High-level output current			-0.4			-0.4	mA
I_{OL}	Low-level output current			4			8	mA
T_A	Operating free-air temperature	-55		125	0		70	°C

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

PARAMETER	TEST CONDITIONS	SN54ALS157A SN54ALS158			SN74ALS157A SN74ALS158			UNIT
		MIN	TYP‡	MAX	MIN	TYP‡	MAX	
V_{IK}	$V_{CC} = 4.5 V$, $I_I = -18 mA$			-1.2			-1.2	V
V_{OH}	$V_{CC} = 4.5 V$ to $5.5 V$, $I_{OH} = -0.4 mA$	$V_{CC} - 2$			$V_{CC} - 2$			V
V_{OL}	$V_{CC} = 4.5 V$		0.25	0.4		0.25	0.4	V
		$I_{OL} = 4 mA$				0.35	0.5	
I_I	$V_{CC} = 5.5 V$, $V_I = 7 V$			0.1			0.1	mA
I_{IH}	$V_{CC} = 5.5 V$, $V_I = 2.7 V$			20			20	μA
I_{IL}	$V_{CC} = 5.5 V$, $V_I = 0.4 V$			-0.1			-0.1	mA
I_O^{\S}	$V_{CC} = 5.5 V$, $V_O = 2.25 V$	-20		-112	-30		-112	mA
I_{CC}	'ALS157A	$V_{CC} = 5.5 V$, See Note 1	6	11	6	11	mA	
	'ALS158		5	10	5	10		

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

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

NOTE 1: I_{CC} is measured with 4.5 V applied to all inputs and all outputs open.



SN54ALS157A, SN54ALS158
SN74ALS157A, SN74ALS158, SN74ALS157, SN74ALS158
QUAD 1-OF-2 DATA SELECTORS/MULTIPLEXERS

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switching characteristics (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	$V_{CC} = 5\text{ V}$, $C_L = 50\text{ pF}$, $R_L = 500\ \Omega$, $T_A = 25^\circ\text{C}$	$V_{CC} = 4.5\text{ V to }5.5\text{ V}$, $C_L = 50\text{ pF}$, $R_L = 500\ \Omega$, $T_A = \text{MIN to MAX}^\dagger$				UNIT
			'ALS157A	SN54ALS157A		SN74ALS157A		
			TYP	MIN	MAX	MIN	MAX	
t_{PLH}	A or B	Y	9	4	17	4	14	ns
t_{PHL}			6	2	15	2	12	
t_{PLH}	\bar{A}/B	Y	15	7	28	7	24	ns
t_{PHL}			9	4	20	4	17	
t_{PLH}	\bar{G}	Y	14	7	25	7	20	ns
t_{PHL}			10	4	18	4	13	

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

switching characteristics (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	$V_{CC} = 5\text{ V}$, $C_L = 50\text{ pF}$, $R_L = 500\ \Omega$, $T_A = 25^\circ\text{C}$	$V_{CC} = 4.5\text{ V to }5.5\text{ V}$, $C_L = 50\text{ pF}$, $R_L = 500\ \Omega$, $T_A = \text{MIN to MAX}^\dagger$				UNIT
			'ALS158	SN54ALS158		SN74ALS158		
			TYP	MIN	MAX	MIN	MAX	
t_{PLH}	A or B	Y	9	4	18	4	15	ns
t_{PHL}			5	2	12	2	8	
t_{PLH}	\bar{A}/B	Y	13	5	22	5	18	ns
t_{PHL}			13	5	22	5	18	
t_{PLH}	\bar{G}	Y	13	5	22	5	18	ns
t_{PHL}			13	5	22	5	18	

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

SN54ALS157A, SN54ALS158
SN74ALS157A, SN74ALS158, SN74AS157, SN74AS158
QUAD 1-OF-2 DATA SELECTORS/MULTIPLEXERS

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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	7 V
Operating free-air temperature range, T_A : SN74AS157, SN74AS158	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

		SN74AS157 SN74AS158			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			-2	mA
I_{OL}	Low-level output current			20	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	SN74AS157 SN74AS158			UNIT
		MIN	TYP‡	MAX	
V_{IK}	$V_{CC} = 4.5 V, I_I = -18 mA$			-1.2	V
V_{OH}	$V_{CC} = 4.5 V \text{ to } 5.5 V, I_{OH} = -2 mA$	$V_{CC} - 2$			V
V_{OL}	$V_{CC} = 4.5 V, I_{OL} = 20 mA$		0.35	0.5	V
I_I	\bar{A}/B	$V_{CC} = 5.5 V, V_I = 7 V$		0.2	mA
	A, B, or \bar{G}			0.1	
I_{IH}	\bar{A}/B	$V_{CC} = 5.5 V, V_I = 2.7 V$		40	μA
	A, B, or \bar{G}			20	
I_{IL}	\bar{A}/B	$V_{CC} = 5.5 V, V_I = 0.4 V$		-1	mA
	A, B, or \bar{G}			-0.5	
$I_{O\S}$	$V_{CC} = 5.5 V, V_O = 2.25 V$	-30		-112	mA
I_{CC}	SN74AS157	$V_{CC} = 5.5 V$		17.5	mA
	SN74AS158			15.6	

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

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



SN54ALS157A, SN54ALS158
SN74ALS157A, SN74ALS158, SN74AS157, SN74AS158
QUAD 1-OF-2 DATA SELECTORS/MULTIPLEXERS

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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, R _L = 500 Ω, T _A = MIN to MAX†		UNIT
			SN74AS157		
			MIN	MAX	
t _{PLH}	A or B	Y	1	6	ns
t _{PHL}			1	5.5	
t _{PLH}	\bar{A}/B	Y	2	11	ns
t _{PHL}			2	10	
t _{PLH}	\bar{G}	Y	2	10.5	ns
t _{PHL}			2	7.5	

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

switching characteristics (see Figure 1)

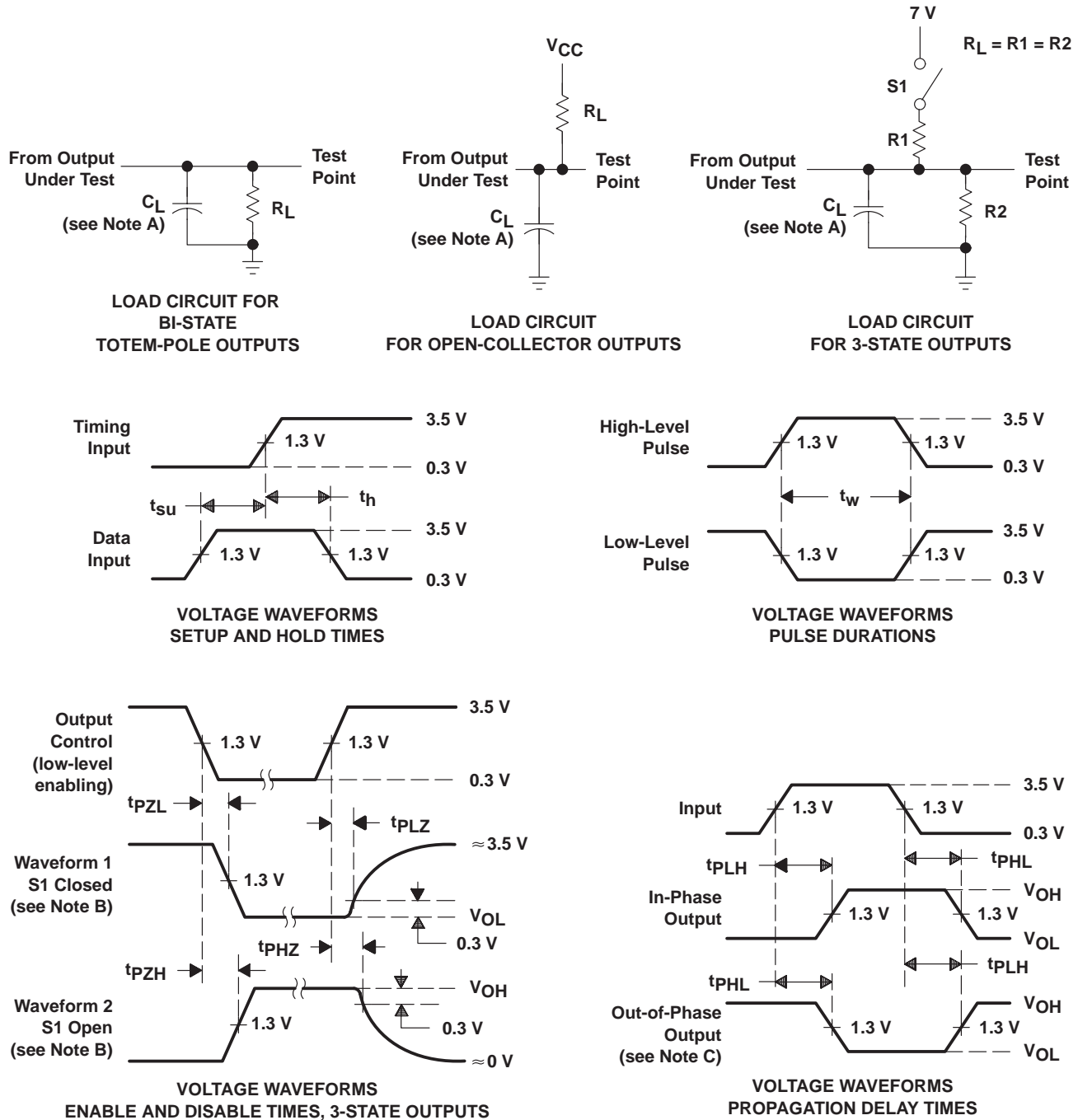
PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 4.5 V to 5.5 V, C _L = 50 pF, R _L = 500 Ω, T _A = MIN to MAX†		UNIT
			SN74AS158		
			MIN	MAX	
t _{PLH}	A or B	Y	1	5	ns
t _{PHL}			1	4.5	
t _{PLH}	\bar{A}/B	Y	2	9.5	ns
t _{PHL}			2	10.5	
t _{PLH}	\bar{G}	Y	2	6.5	ns
t _{PHL}			2	10	

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

SN54ALS157A, SN54ALS158
 SN74ALS157A, SN74ALS158, SN74AS157, SN74AS158
 QUAD 1-OF-2 DATA SELECTORS/MULTIPLEXERS

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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

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PRODUCT SUPPORT: [TRAINING](#)

SN54ALS157A, Quadruple 1-Of-2 Data Selectors/Multiplexers

DEVICE STATUS: **ACTIVE**

PARAMETER NAME	SN54ALS157A	SN74ALS157A
Voltage Nodes (V)	5	5
Vcc range (V)	4.5 to 5.5	4.5 to 5.5
Input Level	TTL	TTL
Output Level	TTL	TTL
Output Drive (mA)		-0.4/8
Output	2S	2S
From	2	2
To	1	1

FEATURES

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- Buffered Inputs and Outputs
- Package Options Include Plastic Small-Outline (D) Packages, Ceramic Chip Carriers (FK), and Standard Plastic (N) and Ceramic (J) 300-mil DIPs

DESCRIPTION

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These data selectors/multiplexers contain inverters and drivers to supply full data selection to the four output gates. A separate strobe (G₁) input is provided. A 4-bit word is selected from one of two sources and is routed to the four outputs. The $\overline{\text{ALS157A}}$ and SN74AS157 present true data. The $\overline{\text{ALS158}}$ and SN74AS158 present inverted data to minimize propagation delay time.

The SN54ALS157A and SN54ALS158 are characterized for operation over the full military temperature range of -55°C to 125°C. The SN74ALS157A, SN74ALS158, SN74AS157, and SN74AS158 are characterized for operation from 0°C to 70°C.

TECHNICAL DOCUMENTS

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DATASHEET

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Product Folder: SN54ALS157A, Quadruple 1-Of-2 Data Selectors/Multiplexers

- [Designing With Logic \(Rev. C\)](#) (SDYA009C - Updated: 06/01/1997)
- [Evaluation of Nickel/Palladium/Gold-Finished Surface-Mount Integrated Circuits](#) (SZZA026 - Updated: 06/20/2001)
- [Input and Output Characteristics of Digital Integrated Circuits](#) (SDYA010 - Updated: 10/01/1996)
- [Live Insertion](#) (SDYA012 - Updated: 10/01/1996)
- [TI IBIS File Creation, Validation, and Distribution Processes](#) (SZZA034 - Updated: 08/29/2002)
- [Understanding and Interpreting Texas Instruments Standard-Logic Products Data Sheet \(Rev. A\)](#) (SZZA036A - Updated: 02/27/2003)

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- [Logic Reference Guide](#) (SCYB004, 1032 KB - Updated: 10/23/2001)
- [MicroStar Junior BGA Design Summary](#) (SCET004, 167 KB - Updated: 07/28/2000)
- [Military Brief](#) (SGYN138, 803 KB - Updated: 10/10/2000)
- [Overview of IEEE Std 91-1984, Explanation of Logic Symbols Training Booklet \(Rev. A\)](#) (SDYZ001A, 138 KB - Updated: 07/01/1996)
- [Palladium Lead Finish User's Manual](#) (SDYV001, 2041 KB - Updated: 11/01/1996)
- [QML Class V Space Products Military Brief \(Rev. A\)](#) (SGZN001A, 257 KB - Updated: 10/07/2002)

USER GUIDES

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- [LOGIC Pocket Data Book](#) (SCYD013, 4837 KB - Updated: 12/05/2002)

PRICING/AVAILABILITY/PKG

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ORDERABLE DEVICE	STATUS	PACKAGE TYPE PINS	TEMP (°C)	DSCC NUMBER	PRODUCT CONTENT	BUDGETARY PRICING QTY SUS	STD PACK QTY	IN STOCK	IN PROGRESS QTY DATE	LEAD TIME	DISTRIBUTOR COMPANY REGION	IN STOCK	PURCHASE
5962-86869012A	ACTIVE	LCCC (FK) 20	-55 TO 125		View Contents	1KU 9.65	1	77*	3845 20 May	8 WKS	None Reported View Distributors		
									>10k 27 May				
5962-8686901EA	ACTIVE	CDIP (J) 16	-55 TO 125		View Contents	1KU 2.47	1	156*	>10k 20 May	8 WKS	Avnet Americas	88	BUY NOW
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SN54ALS157AJ	ACTIVE	CDIP (J) 16	-55 TO 125		View Contents	1KU 2.09	1	622*	>10k 20 May	8 WKS	None Reported View Distributors		
SNJ54ALS157AFK	ACTIVE	LCCC (FK) 20	-55 TO 125	5962-86869012A	View Contents	1KU 9.65	1	0*	3757 20 May	8 WKS	None Reported View Distributors		
									>10k 27 May				
SNJ54ALS157AJ	ACTIVE	CDIP (J) 16	-55 TO 125	5962-8686901EA	View Contents	1KU 2.47	1	36*	>10k 20 May	8 WKS	EBV Elektronik Europe	64	BUY NOW
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SNJ54ALS157AW	ACTIVE	CFP (W) 16	-55 TO 125	5962-8686901FA	View Contents	1KU 8.88	1	0*	>10k 20 May	8 WKS	None Reported View Distributors		

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PRODUCT SUPPORT: [TRAINING](#)

SN54ALS158, Quadruple 1-Of-2 Data Selectors/Multiplexers

DEVICE STATUS: **ACTIVE**

PARAMETER NAME	SN54ALS158	SN74ALS158
Voltage Nodes (V)	5	5
Vcc range (V)	4.5 to 5.5	4.5 to 5.5
Input Level	TTL	TTL
Output Level	TTL	TTL
Output Drive (mA)		-0.4/8
Output	2S	2S
From	2	2
To	1	1

FEATURES

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- Buffered Inputs and Outputs
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DESCRIPTION

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DEVICE INFORMATION Updated Daily								TI INVENTORY STATUS As Of 09:00 AM GMT, 17 Apr 2003			REPORTED DISTRIBUTOR INVENTORY As Of 09:00 AM GMT, 17 Apr 2003		
ORDERABLE DEVICE	STATUS	PACKAGE TYPE PINS	TEMP (°C)	DSCC NUMBER	PRODUCT CONTENT	BUDGETARY PRICING QTY SUS	STD PACK QTY	IN STOCK	IN PROGRESS QTY DATE	LEAD TIME	DISTRIBUTOR COMPANY REGION	IN STOCK	PURCHASE
5962-88625012A	ACTIVE	LCCC (FK) 20	-55 TO 125		View Contents	1KU 9.65	1	0*	3580 20 May	8 WKS	None Reported View Distributors		
									>10k 27 May				
5962-8862501EA	ACTIVE	CDIP (J) 16	-55 TO 125		View Contents	1KU 2.47	1	188*	>10k 20 May	8 WKS	Avnet Americas	7	BUY NOW
5962-8862501FA	ACTIVE	CFP (W) 16	-55 TO 125		View Contents	1KU 8.88	1	18*	>10k 20 May	8 WKS	None Reported View Distributors		
SN54ALS158J	ACTIVE	CDIP (J) 16	-55 TO 125		View Contents	1KU 2.09	1	19*	>10k 20 May	8 WKS	None Reported View Distributors		
SNJ54ALS158FK	ACTIVE	LCCC (FK) 20	-55 TO 125	5962-88625012A	View Contents	1KU 9.65	1	0*	3536 20 May	8 WKS	None Reported View Distributors		
									>10k 27 May				
SNJ54ALS158J	ACTIVE	CDIP (J) 16	-55 TO 125	5962-8862501EA	View Contents	1KU 2.47	1	91*	>10k 20 May	8 WKS	EBV Elektronik Europe	25	BUY NOW
SNJ54ALS158W	ACTIVE	CFP (W) 16	-55 TO 125	5962-8862501FA	View Contents	1KU 8.88	1	0*	>10k 20 May	8 WKS	None Reported View Distributors		

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