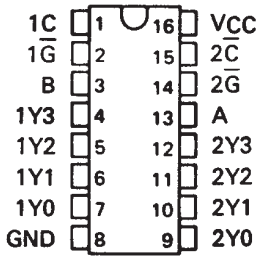
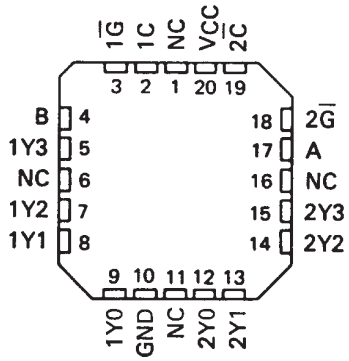
- **Applications:**
  - **Dual 2-to 4-Line Decoder**
  - **Dual 1-to 4-Line Demultiplexer**
  - **3-to 8-Line Decoder**
  - **1-to 8-Line Demultiplexer**
- **Individual Strobes Simplify Cascading for Decoding or Demultiplexing Larger Words**
- **Input Clamping Diodes Simplify System Design**
- **Choice of Outputs:**
  - **Totem Pole ('155, 'LS155A)**
  - **Open-Collector ('156, 'LS156)**

TYPES	TYPICAL AVERAGE PROPAGATION DELAY 3 GATE LEVELS	TYPICAL POWER DISSIPATION
'155, '156	21 ns	125 mW
'LS155A	18 ns	31 mW
'LS156	32 ns	31 mW

SN54155, SN54156, SN54LS155A,
SN54LS156 . . . J OR W PACKAGE
SN74155, SN74156 . . . N PACKAGE
SN74LS155A, SN74LS156 . . . D OR N PACKAGE
(TOP VIEW)



SN54LS155A, SN54LS156 . . . FK PACKAGE
(TOP VIEW)



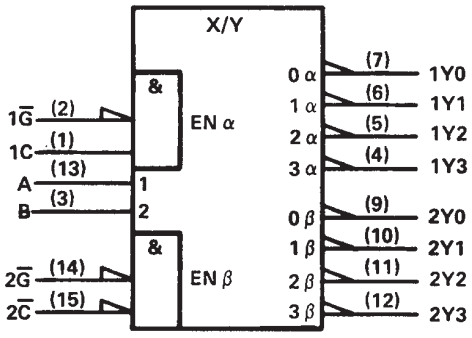
NC - No internal connection

description

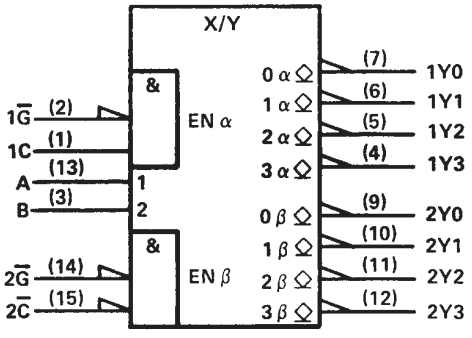
These monolithic transistor-transistor-logic (TTL) circuits feature dual 1-line-to-4-line demultiplexers with individual strobes and common binary-address inputs in a single 16-pin package. When both sections are enabled by the strobes, the common binary-address inputs sequentially select and route associated input data to the appropriate output of each section. The individual strobes permit activating or inhibiting each of the 4-bit sections as desired. Data applied to input 1C is inverted at its outputs and data applied at $2\overline{C}$ is not inverted through its outputs. The inverter following the 1C data input permits use as a 3-to-8-line decoder or 1-to-8-line demultiplexer without external gating. Input clamping diodes are provided on all of these circuits to minimize transmission-line effects and simplify system design.

logic symbols (2-line to 4-line decoder)†

'155, 'LS155A



'156, 'LS156



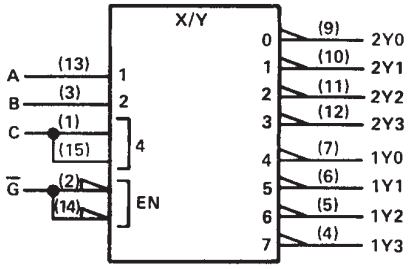
†These symbols are in accordance with ANSI/IEEE Std. 91-1984 and IEC Publication 617-12. For alternative symbols for other applications, see the following page.

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

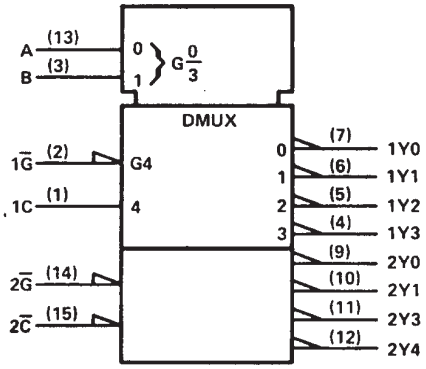
additional logic symbols (alternatives)†

'155, 'LS155A

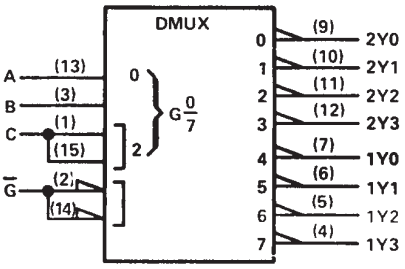
3-line to 8-line Decoder



1-line to 4-line DMUX

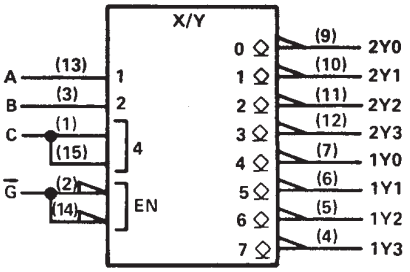


1-line to 8-line DMUX

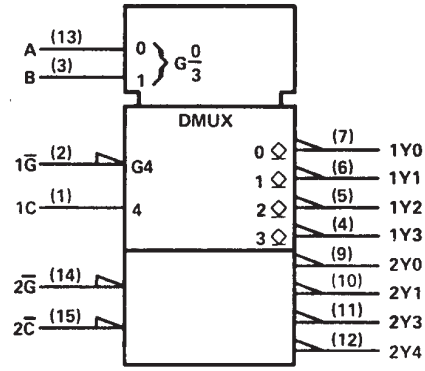


'156, 'LS156

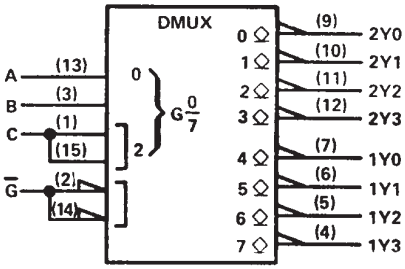
3-line to 8-line Decoder



1-line to 4-line DMUX



1-line to 8-line DMUX

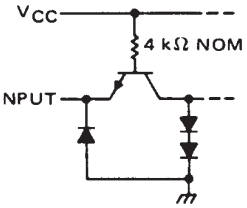


†These symbols are in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12.
Pin numbers shown are for D, J, N, and W packages.

schematics of inputs and outputs

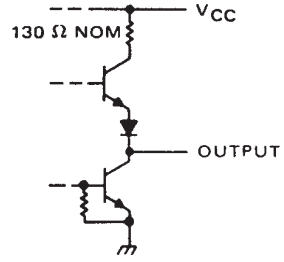
'155, '156

EQUIVALENT OF EACH INPUT



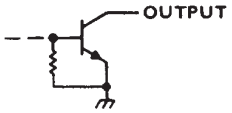
'155

TYPICAL OF ALL OUTPUTS



'156

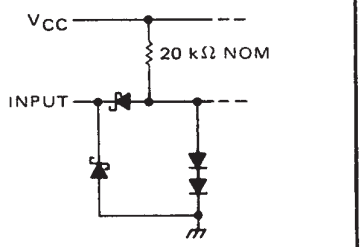
TYPICAL OF ALL OUTPUTS



schematics of inputs and outputs (continued)

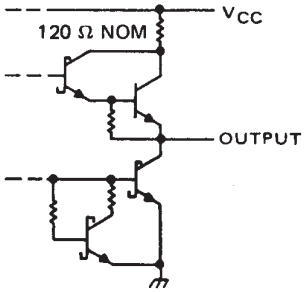
'LS155A, 'LS156

EQUIVALENT OF EACH INPUT



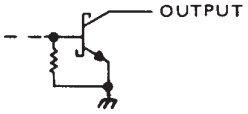
'LS155A

TYPICAL OF ALL OUTPUTS

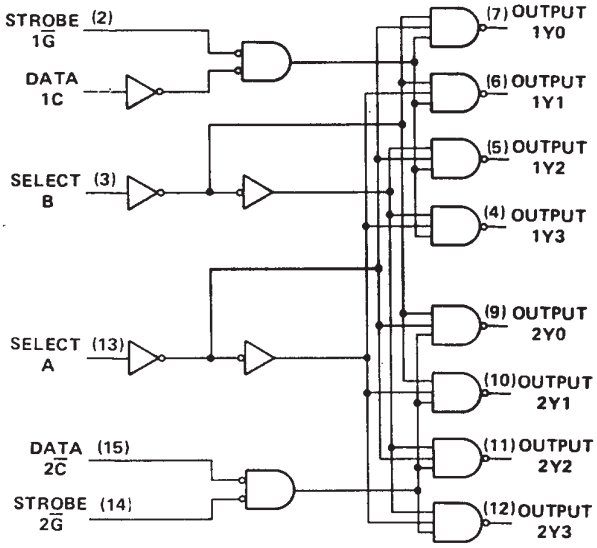


'LS156

TYPICAL OF ALL OUTPUTS



logic diagram (positive logic)



FUNCTION TABLES
2-LINE-TO-4-LINE DECODER
OR 1-LINE-TO-4-LINE DEMULTIPLEXER

INPUTS				OUTPUTS			
SELECT		STROBE	DATA				
B	A	1G̅	1C	1Y0	1Y1	1Y2	1Y3
X	X	H	X	H	H	H	H
L	L	L	H	L	H	H	H
L	H	L	H	H	L	H	H
H	L	L	H	H	H	L	H
H	H	L	H	H	H	H	L
X	X	X	L	H	H	H	H

INPUTS				OUTPUTS			
SELECT		STROBE	DATA				
B	A	2G̅	2C	2Y0	2Y1	2Y2	2Y3
X	X	H	X	H	H	H	H
L	L	L	L	L	H	H	H
L	H	L	L	H	L	H	H
H	L	L	L	H	H	L	H
H	H	L	L	H	H	H	L
X	X	X	H	H	H	H	H

FUNCTION TABLE
3-LINE-TO-8-LINE DECODER
OR 1-LINE-TO-8-LINE DEMULTIPLEXER

INPUTS				OUTPUTS							
SELECT			STROBE OR DATA	(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)
C†	B	A	G̅‡	2Y0	2Y1	2Y2	2Y3	1Y0	1Y1	1Y2	1Y3
X	X	X	H	H	H	H	H	H	H	H	H
L	L	L	L	L	H	H	H	H	H	H	H
L	L	H	L	H	L	H	H	H	H	H	H
L	H	L	L	H	H	L	H	H	H	H	H
L	H	H	L	H	H	H	L	H	H	H	H
H	L	L	L	H	H	H	H	L	H	H	H
H	L	H	L	H	H	H	H	H	L	H	H
H	H	L	L	H	H	H	H	H	H	L	H
H	H	H	L	H	H	H	H	H	H	H	L

†C = inputs 1C and 2C̅ connected together
‡G̅ = inputs 1G̅ and 2G̅ connected together
H = high level, L = low level, X = irrelevant

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

Supply voltage, V_{CC} (see Note 1) . . . . . 7 V
Input voltage: '155, '156 . . . . . 5.5 V
'LS155A, 'LS156 . . . . . 7 V
Off-state output voltage: '156 . . . . . 5.5 V
'LS156 . . . . . 7 V
Operating free-air temperature range: SN54', SN54LS' Circuits . . . . . −55°C to 125°C
SN74', SN74LS' Circuits . . . . . 0°C to 70°C
Storage temperature range . . . . . −65°C to 150°C

NOTE 1: Voltage values are with respect to network ground terminal.

recommended operating conditions

	SN54155			SN74155			UNIT
	MIN	NOM	MAX	MIN	NOM	MAX	
Supply voltage, V_{CC}	4.5	5	5.5	4.75	5	5.25	V
High-level output current, I_{OH}			−800			−800	μA
Low-level output current, I_{OL}			16			16	mA
Operating free-air temperature, T_A	−55		125	0		70	°C

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

PARAMETER		TEST CONDITIONS†		SN54155 SN74155			UNIT
				MIN	TYP‡	MAX	
V_{IH}	High-level input voltage			2			V
V_{IL}	Low-level input voltage					0.8	V
V_{IK}	Input clamp voltage	V_{CC} = MIN, I_I = −8 mA				−1.5	V
V_{OH}	High-level output voltage	V_{CC} = MIN, V_{IH} = 2 V, V_{IL} = 0.8 V, I_{OH} = −800 μA		2.4	3.4		V
V_{OL}	Low-level output voltage	V_{CC} = MIN, V_{IH} = 2 V, V_{IL} = 0.8 V, I_{OL} = 16 mA			0.2	0.4	V
I_I	Input current at maximum input voltage	V_{CC} = MAX, V_I = 5.5 V				1	mA
I_{IH}	High-level input current	V_{CC} = MAX, V_I = 2.4 V				40	μA
I_{IL}	Low-level input current	V_{CC} = MAX, V_I = 0.4 V				−1.6	mA
I_{OS}	Short-circuit output current§	V_{CC} = MAX	SN54155	−20		−55	mA
			SN74155	−18		−57	
I_{CC}	Supply current	V_{CC} = MAX, See Note 2	SN54155		25	35	mA
			SN74155		25	40	

†For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.
‡All typical values are at V_{CC} = 5 V, T_A = 25°C.
§Not more than one output should be shorted at a time.
NOTE 2: I_{CC} is measured with outputs open, A, B, and 1C inputs at 4.5 V, and 2C, 1G, and 2G inputs grounded.

switching characteristics, V_{CC} = 5 V, T_A = 25°C

PARAMETER	FROM (INPUT)	TO (OUTPUT)	LEVELS OF LOGIC	TEST CONDITIONS	SN54155 SN74155			UNIT
					MIN	TYP	MAX	
t_{PLH}	A, B, $2\overline{C}$, $1\overline{G}$, or $2\overline{G}$	Y	2	C_L = 15 pF, R_L = 400 Ω, See Note 3		13	20	ns
t_{PHL}	A, B, $2\overline{C}$, $1\overline{G}$, or $2\overline{G}$	Y	2			18	27	ns
t_{PLH}	A or B	Y	3			21	32	ns
t_{PHL}	A or B	Y	3			21	32	ns
t_{PLH}	1C	Y	3			16	24	ns
t_{PHL}	1C	Y	3			20	30	ns

NOTE 3: Load circuits and voltage waveforms are shown in Section 1.

recommended operating conditions

	SN54156			SN74156			UNIT
	MIN	NOM	MAX	MIN	NOM	MAX	
Supply voltage, V_{CC}	4.5	5	5.5	4.75	5	5.25	V
High-level output voltage, V_{OH}			5.5			5.5	V
Low-level output current, I_{OL}			16			16	mA
Operating free-air temperature, T_A	−55		125	0		70	°C

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

PARAMETER		TEST CONDITIONS†		SN54156 SN74156			UNIT
				MIN	TYP‡	MAX	
V_{IH}	High-level input voltage			2			V
V_{IL}	Low-level input voltage					0.8	V
V_{IK}	Input clamp voltage	V_{CC} = MIN, I_I = −8 mA				−1.5	V
I_{OH}	High-level output current	V_{CC} = MIN, V_{IH} = 2 V, V_{IL} = 0.8 V, V_{OH} = 5.5 V				250	μA
V_{OL}	Low-level output voltage	V_{CC} = MIN, V_{IH} = 2 V, V_{IL} = 0.8 V, I_{OL} = 16 mA			0.2	0.4	V
I_I	Input current at maximum input voltage	V_{CC} = MAX, V_I = 5.5 V				1	mA
I_{IH}	High-level input current	V_{CC} = MAX, V_I = 2.4 V				40	μA
I_{IL}	Low-level input current	V_{CC} = MAX, V_I = 0.4 V				−1.6	mA
I_{CC}	Supply current	V_{CC} = MAX, See Note 2	SN54156		25	35	mA
			SN74156		25	40	

†For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.
‡All typical values are at V_{CC} = 5 V, T_A = 25°C.
NOTE 2: I_{CC} is measured with outputs open, A, B, and 1C inputs at 4.5 V, and 2C, 1G, and 2G inputs grounded.

switching characteristics, V_{CC} = 5 V, T_A = 25°C

PARAMETER§	FROM (INPUT)	TO (OUTPUT)	LEVELS OF LOGIC	TEST CONDITIONS	SN54156 SN74156			UNIT
					MIN	TYP	MAX	
t_{PLH}	A, B, $2\overline{C}$, $1\overline{G}$, or $2\overline{G}$	Y	2	C_L = 15 pF, R_L = 400 Ω, See Note 3		15	23	ns
t_{PHL}	A, B, $2\overline{C}$, $1\overline{G}$, or $2\overline{G}$	Y	2			20	30	ns
t_{PLH}	A or B	Y	3			23	34	ns
t_{PHL}	A or B	Y	3			23	34	ns
t_{PLH}	1C	Y	3			18	27	ns
t_{PHL}	1C	Y	3			22	33	ns

§t_{PLH} = propagation delay time, low-to-high-level output
t_{PHL} = propagation delay time, high-to-low-level output
NOTE 3: Load circuits and voltage waveforms are shown in Section 1.

recommended operating conditions

	SN54LS155A			SN74LS155A			UNIT
	MIN	NOM	MAX	MIN	NOM	MAX	
Supply voltage, V_{CC}	4.5	5	5.5	4.75	5	5.25	V
High-level output current, I_{OH}			−400			−400	μA
Low-level output current, I_{OL}			4			8	mA
Operating free-air temperature, T_A	−55		125	0		70	°C

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

PARAMETER		TEST CONDITIONS†		SN54LS155A			SN74LS155A			UNIT
				MIN	TYP‡	MAX	MIN	TYP‡	MAX	
V_{IH}	High-level input voltage			2			2			V
V_{IL}	Low-level input voltage					0.7			0.8	V
V_{IK}	Input clamp voltage	V_{CC} = MIN, I_I = −18 mA				−1.5			−1.5	V
V_{OH}	High-level output voltage	V_{CC} = MIN, V_{IH} = 2 V, V_{IL} = V_{IL} max, I_{OH} = −400 μA		2.5	3.4		2.7	3.4		V
V_{OL}	Low-level output voltage	V_{CC} = MIN, V_{IH} = 2 V, V_{IL} = V_{IL} max	I_{OL} = 4 mA		0.25	0.4		0.25	0.4	V
			I_{OL} = 8 mA					0.35	0.5	
I_I	Input current at maximum input voltage	V_{CC} = MAX, V_I = 7 V				0.1			0.1	mA
I_{IH}	High-level input current	V_{CC} = MAX, V_I = 2.7 V				20			20	μA
I_{IL}	Low-level input current	V_{CC} = MAX, V_I = 0.4 V				−0.4			−0.4	mA
I_{OS}	Short-circuit output current§	V_{CC} = MAX		−20		−100	−20		−100	mA
I_{CC}	Supply current	V_{CC} = MAX, See Note 2			6.1	10		6.1	10	mA

†For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.
‡All typical values are at V_{CC} = 5 V, T_A = 25°C.
§Not more than one output should be shorted at a time.
NOTE 2: I_{CC} is measured with outputs open, A, B, and 1C inputs at 4.5 V, and 2C, 1G, and 2G inputs grounded.

switching characteristics, V_{CC} = 5 V, T_A = 25°C

PARAMETER¶	FROM (INPUT)	TO (OUTPUT)	LEVELS OF LOGIC	TEST CONDITIONS	SN54LS155A SN74LS155A			UNIT
					MIN	TYP	MAX	
t_{PLH}	A, B, 2$\overline{C}$, 1$\overline{G}$, or 2$\overline{G}$	Y	2	C_L = 15 pF, R_L = 2 kΩ, See Note 3		10	15	ns
t_{PHL}	A, B, 2$\overline{C}$, 1$\overline{G}$, or 2$\overline{G}$	Y	2			19	30	ns
t_{PLH}	A or B	Y	3			17	26	ns
t_{PHL}	A or B	Y	3			19	30	ns
t_{PLH}	1C	Y	3			18	27	ns
t_{PHL}	1C	Y	3			18	27	ns

¶t_{PLH} = propagation delay time, low-to-high-level output
t_{PHL} = propagation delay time, high-to-low-level output
NOTE 3: Load circuits and voltage waveforms are shown in Section 1.

recommended operating conditions

	SN54LS156			SN74LS156			UNIT
	MIN	NOM	MAX	MIN	NOM	MAX	
Supply voltage, V_{CC}	4.5	5	5.5	4.75	5	5.25	V
High-level output voltage, V_{OH}			5.5			5.5	V
Low-level output current, I_{OL}			4			8	mA
Operating free-air temperature, T_A	−55		125	0		70	°C

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

PARAMETER		TEST CONDITIONS†		SN54LS156			SN74LS156			UNIT
				MIN	TYP‡	MAX	MIN	TYP‡	MAX	
V_{IH}	High-level input voltage			2			2			V
V_{IL}	Low-level input voltage					0.7			0.8	V
V_{IK}	Input clamp voltage	V_{CC} = MIN, I_I = −18 mA				−1.5			−1.5	V
I_{OH}	High-level output current	V_{CC} = MIN, V_{IH} = 2 V, V_{IL} = V_{IL} max, V_{OH} = 5.5 V				100			100	μA
V_{OL}	Low-level output voltage	V_{CC} = MIN, V_{IH} = 2 V, V_{IL} = V_{IL} max	I_{OL} = 4 mA		0.25	0.4		0.25	0.4	V
			I_{OL} = 8 mA					0.35	0.5	
I_I	Input current at maximum input voltage	V_{CC} = MAX, V_I = 7 V				0.1			0.1	mA
I_{IH}	High-level input current	V_{CC} = MAX, V_I = 2.7 V				20			20	μA
I_{IL}	Low-level input current	V_{CC} = MAX, V_I = 0.4 V				−0.4			−0.4	mA
I_{CC}	Supply current	V_{CC} = MAX, See Note 2			6.1	10		6.1	10	mA

†For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.
‡All typical values are at V_{CC} = 5 V, T_A = 25°C.
NOTE 2: I_{CC} is measured with outputs open, A, B, and 1C inputs at 4.5 V, and 2C, 1G, and 2G inputs grounded.

switching characteristics, V_{CC} = 5 V, T_A = 25°C

PARAMETER§	FROM (INPUT)	TO (OUTPUT)	LEVELS OF LOGIC	TEST CONDITIONS	SN54LS156 SN74LS156			UNIT
					MIN	TYP	MAX	
t_{PLH}	A, B, $2\overline{C}$ $1\overline{G}$, or $2\overline{G}$	Y	2	C_L = 15 pF, R_L = 2 kΩ, See Note 3		25	40	ns
t_{PHL}	A, B, $2\overline{C}$, $1\overline{G}$, or $2\overline{G}$	Y	2			34	51	ns
t_{PLH}	A or B	Y	3			31	46	ns
t_{PHL}	A or B	Y	3			34	51	ns
t_{PLH}	1C	Y	3			32	48	ns
t_{PHL}	1C	Y	3			32	48	ns

§t_{PLH} = propagation delay time, low-to-high-level output
t_{PHL} = propagation delay time, high-to-low-level output
NOTE 3: Load circuits and voltage waveforms are shown in Section 1.

IMPORTANT NOTICE

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SN74LS155A, Dual 2-Line To 4-Line Decoders/Demultiplexers

DEVICE STATUS: **ACTIVE**

PARAMETER NAME	SN54LS155A	SN74LS155A
Voltage Nodes (V)	5	5
Vcc range (V)	4.5 to 5.5	4.75 to 5.25
Input Level	TTL	TTL
Output Level	TTL	TTL
Output Drive (mA)		-0.4/8
Output	2S	2S
From	2	2
To	4	4

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- Applications:
  - Dual 2-to 4-Line Decoder
  - Dual 1-to 4-Line Demultiplexer
  - 3-to 8-Line Decoder
  - 1-to 8-Line Demultiplexer
- Individual Strobes Simplify Cascading for Decoding or Demultiplexing Larger Words
- Input Clamping Diodes Simplify System Design
- Choice of Outputs:
  - Totem Pole ('155, 'LS155A)
  - Open-Collector ('156, 'LS156)

DESCRIPTION

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These monolithic transistor-transistor-logic (TTL) circuits feature dual 1-line-to-4-line demultiplexers with individual strobes and common binary-address inputs in a single 16-pin package. When both sections are enabled by the strobes, the common binary-address inputs sequentially select and route associated input data to the appropriate output of each section. The individual strobes permit activating or inhibiting each of the 4-bit sections as desired. Data applied to input 1C is inverted at its outputs and data applied at 2C\ is not inverted through its outputs. The inverter following the 1C data input permits use as a 3-to-8-line decoder or 1-to-8-line demultiplexer without external gating. Input clamping diodes are provided on all of these circuits to minimize transmission-line effects and simplify system design.

TECHNICAL DOCUMENTS

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To view the following documents, Acrobat Reader 4.0 is required.

To download a document to your hard drive, right-click on the link and choose 'Save'.

DATASHEET

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Full datasheet in Acrobat PDF: sn74ls155a.pdf (325 KB) (Updated: 03/01/1988)

APPLICATION NOTES

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View Application Notes for Digital Logic

- Designing With Logic (Rev. C) (SDYA009C - Updated: 06/01/1997)
- Designing with the SN54/74LS123 (Rev. A) (SDLA006A - Updated: 03/01/1997)
- 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)

RELATED DOCUMENTS

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View Related Documentation for Digital Logic

- Logic Reference Guide (SCYB004, 1032 KB - Updated: 10/23/2001)
- Logic Selection Guide Second Half 2002 (Rev. R) (SDYU001R, 4274 KB - Updated: 07/19/2002)
- Military Semiconductors Selection Guide 2002 (Rev. B) (SGYC003B, 1648 KB - Updated: 04/22/2002)

PRICING/AVAILABILITY/PKG

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DEVICE INFORMATION							TI INVENTORY STATUS AS OF 3:00 PM GMT, 26 Sep 2002			REPORTED DISTRIBUTOR INVENTORY AS OF 3:00 PM GMT, 26 Sep 2002		
ORDERABLE DEVICE	STATUS	PACKAGE TYPE|PINS	TEMP (°C)	PRODUCT CONTENT	BUDGETARY PRICING QTY | $US	STD PACK QTY	IN STOCK	IN PROGRESS QTY|DATE	LEAD TIME	DISTRIBUTOR COMPANY|REGION	IN STOCK	PURCHASE
SN74LS155AD	ACTIVE	SOP (D) | 16	0 TO 70	View Contents	1KU | 0.42	40	30	4674 | 03 Oct	4 WKS			
								>10k | 10 Oct				
								>10k | 17 Oct				
								>10k | 24 Oct				
								>10k | 07 Nov				
SN74LS155ADR	ACTIVE	SOP (D) | 16	0 TO 70	View Contents	1KU | 0.45	2500	2500	1114 | 03 Oct	4 WKS			
								>10k | 10 Oct				
								>10k | 17 Oct				
								>10k | 24 Oct				
								>10k | 07 Nov				
SN74LS155AN	ACTIVE	PDIP (N) | 16	0 TO 70	View Contents	1KU | 0.42	25	N/A*	1712 | 02 Oct	4 WKS	Avnet | AMERICA	>1k	BUY NOW
								>10k | 07 Oct				

								>10k | 09 Oct					
								>10k | 16 Oct					
								>10k | 04 Dec					
SN74LS155ANSR	ACTIVE	SOP (NS) | 16		View Contents	1KU | 0.42	2000	6000	4000 | 03 Oct	4 WKS				
								>10k | 04 Oct					
								2302 | 11 Oct					
								>10k | 18 Oct					
								>10k | 08 Nov					

Table Data Updated on: 9/26/2002

SN74LS156, Dual 2-Line to 4-Line Decoders/Demultiplexers with Open-Collector Outputs

DEVICE STATUS: **ACTIVE**

PARAMETER NAME	SN54LS156	SN74LS156
Voltage Nodes (V)	5	5
Vcc range (V)	4.5 to 5.5	4.75 to 5.25
Input Level	TTL	TTL
Output Level	TTL	TTL
Output Drive (mA)		- /8
Output	OC	OC
From	2	2
To	4	4

FEATURES

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- Applications:
  - Dual 2-to 4-Line Decoder
  - Dual 1-to 4-Line Demultiplexer
  - 3-to 8-Line Decoder
  - 1-to 8-Line Demultiplexer
- Individual Strobes Simplify Cascading for Decoding or Demultiplexing Larger Words
- Input Clamping Diodes Simplify System Design
- Choice of Outputs:
  - Totem Pole ('155, 'LS155A)
  - Open-Collector ('156, 'LS156)

DESCRIPTION

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These monolithic transistor-transistor-logic (TTL) circuits feature dual 1-line-to-4-line demultiplexers with individual strobes and common binary-address inputs in a single 16-pin package. When both sections are enabled by the strobes, the common binary-address inputs sequentially select and route associated input data to the appropriate output of each section. The individual strobes permit activating or inhibiting each of the 4-bit sections as desired. Data applied to input 1C is inverted at its outputs and data applied at 2C\ is not inverted through its outputs. The inverter following the 1C data input permits use as a 3-to-8-line decoder or 1-to-8-line demultiplexer without external gating. Input clamping diodes are provided on all of these circuits to minimize transmission-line effects and simplify system design.

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DATASHEET

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Full datasheet in Acrobat PDF: sn74ls156.pdf (325 KB) (Updated: 03/01/1988)

APPLICATION NOTES

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View Application Notes for Digital Logic

- Designing With Logic (Rev. C) (SDYA009C - Updated: 06/01/1997)
- Designing with the SN54/74LS123 (Rev. A) (SDLA006A - Updated: 03/01/1997)
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PRICING/AVAILABILITY/PKG

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DEVICE INFORMATION							TI INVENTORY STATUS AS OF 3:00 PM GMT, 26 Sep 2002			REPORTED DISTRIBUTOR INVENTORY AS OF 3:00 PM GMT, 26 Sep 2002		
ORDERABLE DEVICE	STATUS	PACKAGE TYPE|PINS	TEMP (°C)	PRODUCT CONTENT	BUDGETARY PRICING QTY | $US	STD PACK QTY	IN STOCK	IN PROGRESS QTY|DATE	LEAD TIME	DISTRIBUTOR COMPANY|REGION	IN STOCK	PURCHASE
SN74LS156D	ACTIVE	SOP (D) | 16	0 TO 70	View Contents	1KU | 0.34	40	N/A*	>10k | 07 Nov	6 WKS			
								>10k | 15 Nov				
								>10k | 21 Nov				
								>10k | 02 Dec				
								>10k | 05 Dec				
SN74LS156DR	ACTIVE	SOP (D) | 16	0 TO 70	View Contents	1KU | 0.36	2500	N/A*	>10k | 04 Nov	6 WKS			
								>10k | 12 Nov				
								>10k | 18 Nov				
								>10k | 25 Nov				
								>10k | 02 Dec				
SN74LS156N	ACTIVE	PDIP (N) | 16	0 TO 70	View Contents	1KU | 0.27	25	N/A*	225 | 28 Oct	4 WKS	Avnet | AMERICA	519	BUY NOW
								100 | 18 Nov				

								2000 | 02 Dec						
								>10k | 04 Dec						
								>10k | 11 Dec						
SN74LS156N3	OBSOLETE	PDIP (N) | 16	0 TO 70	View Contents	1KU |		N/A*		Not Available				
SN74LS156NSR	ACTIVE	SOP (NS) | 16		View Contents	1KU | 0.27	2000	N/A*	>10k | 08 Nov	6 WKS					
								>10k | 15 Nov						
								>10k | 22 Nov						
								>10k | 02 Dec						
								>10k | 06 Dec						

Table Data Updated on: 9/26/2002