

# SN54ALS138A, SN54AS138, SN74ALS138A, SN74AS138 3-LINE TO 8-LINE DECODERS/DEMULTIPLEXERS

SDAS055E – APRIL 1982 – REVISED JULY 1996

- Designed Specifically for High-Speed Memory Decoders and Data Transmission Systems
- Incorporate Three Enable Inputs to Simplify Cascading and/or Data Reception
- Package Options Include Plastic Small-Outline (D) Packages, Ceramic Chip Carriers (FK), and Standard Plastic (N) and Ceramic (J) 300-mil DIPs

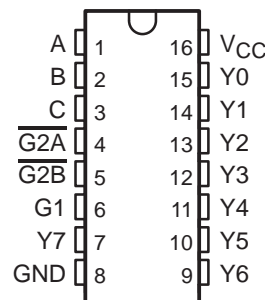
## description

The 'ALS138A and 'AS138 are 3-line to 8-line decoders/demultiplexers designed for high-performance memory-decoding or data-routing applications requiring very short propagation delay times. In high-performance systems, these devices can be used to minimize the effects of system decoding. When employed with high-speed memories with a fast enable circuit, the delay times of the decoder and the enable time of the memory are usually less than the typical access time of the memory. The effective system delay introduced by the Schottky-clamped system decoder is negligible.

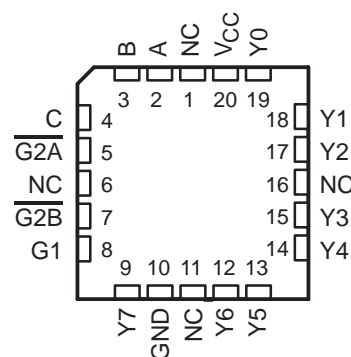
The conditions at the binary-select (A, B, and C) inputs and the three enable ( $\overline{G1}$ ,  $\overline{G2A}$ , and  $\overline{G2B}$ ) inputs select one of eight output lines. Two active-low and one active-high enable inputs reduce the need for external gates or inverters when expanding. A 24-line decoder can be implemented without external inverters and a 32-line decoder requires only one inverter. An enable input can be used as a data input for demultiplexing applications.

The SN54ALS138A and SN54AS138 are characterized for operation over the full military temperature range of  $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}$ . The SN74ALS138A and SN74AS138 are characterized for operation from  $0^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ .

SN54ALS138A, SN54AS138 . . . J PACKAGE  
SN74ALS138A, SN74AS138 . . . D OR N PACKAGE  
(TOP VIEW)



SN54ALS138A, SN54AS138 . . . FK PACKAGE  
(TOP VIEW)



NC – No internal connection



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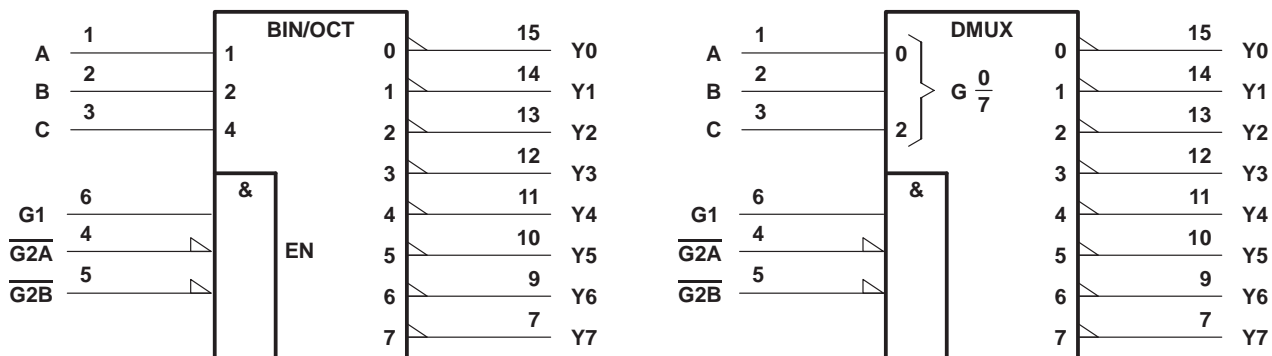
# SN54ALS138A, SN54AS138, SN74ALS138A, SN74AS138 3-LINE TO 8-LINE DECODERS/DEMULTIPLEXERS

SDAS055E – APRIL 1982 – REVISED JULY 1996

FUNCTION TABLE

INPUTS						OUTPUTS							
ENABLE			SELECT										
G1	$\overline{G2A}$	$\overline{G2B}$	C	B	A	Y0	Y1	Y2	Y3	Y4	Y5	Y6	Y7
X	H	X	X	X	X	H	H	H	H	H	H	H	H
X	X	H	X	X	X	H	H	H	H	H	H	H	H
L	X	X	X	X	X	H	H	H	H	H	H	H	H
H	L	L	L	L	L	L	H	H	H	H	H	H	H
H	L	L	L	L	H	H	L	H	H	H	H	H	H
H	L	L	L	H	L	H	H	L	H	H	H	H	H
H	L	L	H	L	L	H	H	H	H	L	H	H	H
H	L	L	H	L	H	H	H	H	H	H	L	H	H
H	L	L	H	H	L	H	H	H	H	H	H	L	H
H	L	L	H	H	H	H	H	H	H	H	H	H	L

## logic symbols (alternatives)†

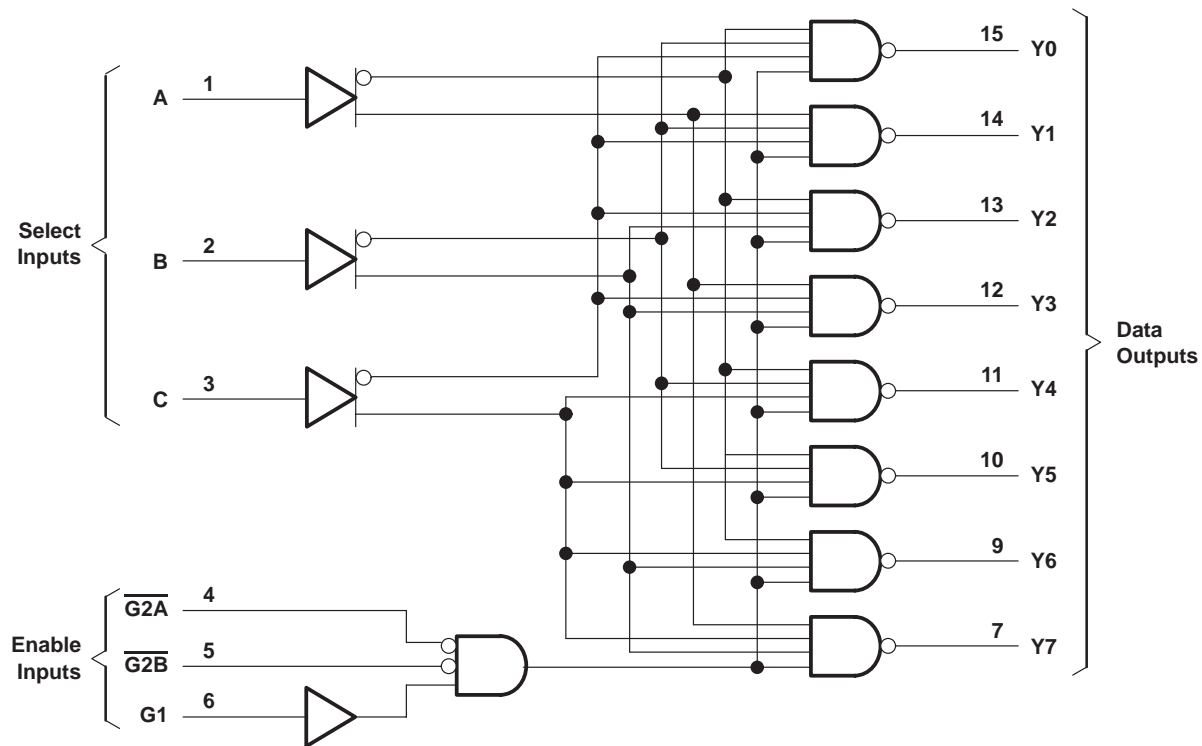


† These symbols are in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12. Pin numbers shown are for the D, J, and N packages.

# SN54ALS138A, SN54AS138, SN74ALS138A, SN74AS138 3-LINE TO 8-LINE DECODERS/DEMULTIPLEXERS

SDAS055E – APRIL 1982 – REVISED JULY 1996

## logic diagram (positive logic)



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

# SN54ALS138A, SN54AS138, SN74ALS138A, SN74AS138 3-LINE TO 8-LINE DECODERS/DEMULTIPLEXERS

SDAS055E – APRIL 1982 – REVISED JULY 1996

## 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, $T_A$ : SN54ALS138A	-55°C to 125°C
SN74ALS138A	0°C to 70°C
Storage temperature range, $T_{stg}$	-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

		SN54ALS138A			SN74ALS138A			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	SN54ALS138A			SN74ALS138A			UNIT
		MIN	TYP‡	MAX	MIN	TYP‡	MAX	
$V_{IK}$	$V_{CC} = 4.5 V$ , $I_I = -18 mA$			-1.5			-1.5	V
$V_{OH}$	$V_{CC} = 4.5 V$ , $I_{OH} = -0.4 mA$	$V_{CC} - 2$			$V_{CC} - 2$			V
$V_{OL}$	$V_{CC} = 4.5 V$ , $I_{OL} = 4 mA$		0.25	0.4		0.25	0.4	V
						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
$I_{CC}$	$V_{CC} = 5.5 V$		5	10		5	10	mA

‡ 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,  $I_{OS}$ .

## switching characteristics (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	$V_{CC} = 4.5 V$ to $5.5 V$ , $C_L = 50 pF$ , $R_L = 500 \Omega$ , $T_A = MIN$ to $MAX^{\dagger}$				UNIT
			SN54ALS138A		SN74ALS138A		
			MIN	MAX	MIN	MAX	
$t_{PLH}$	A, B, C	Any Y	2	28	5	22	ns
$t_{PHL}$			6	22	6	18	
$t_{PLH}$	G or $\bar{G}$	Any Y	2	22	3	17	ns
$t_{PHL}$			4	21	4	17	

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



# SN54ALS138A, SN54AS138, SN74ALS138A, SN74AS138 3-LINE TO 8-LINE DECODERS/DEMULTIPLEXERS

SDAS055E – APRIL 1982 – REVISED JULY 1996

## 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, $T_A$ : SN54AS138 .....	–55°C to 125°C
SN74AS138 .....	0°C to 70°C
Storage temperature range, $T_{stg}$ .....	–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

		SN54AS138			SN74AS138			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			0.8			0.8	V
$I_{OH}$	High-level output current			–2			–2	mA
$I_{OL}$	Low-level output current			20			20	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	SN54AS138			SN74AS138			UNIT
		MIN	TYP‡	MAX	MIN	TYP‡	MAX	
$V_{IK}$	$V_{CC} = 4.5\text{ V}$ , $I_I = -18\text{ mA}$			–1.2			–1.2	V
$V_{OH}$	$V_{CC} = 4.5\text{ V to }5.5\text{ V}$ , $I_{OH} = -2\text{ mA}$	$V_{CC} - 2$			$V_{CC} - 2$			V
$V_{OL}$	$V_{CC} = 4.5\text{ V}$ , $I_{OL} = 20\text{ mA}$		0.35	0.5		0.35	0.5	V
$I_I$	$V_{CC} = 5.5\text{ V}$ , $V_I = 7\text{ V}$			0.1			0.1	mA
$I_{IH}$	$V_{CC} = 5.5\text{ V}$ , $V_I = 2.7\text{ V}$			20			20	μA
$I_{IL}$	$V_{CC} = 5.5\text{ V}$ , $V_I = 0.4\text{ V}$			–0.5			–0.5	mA
$I_{O}^{\S}$	$V_{CC} = 5.5\text{ V}$ , $V_O = 2.25\text{ V}$	–30		–112	–30		–112	mA
$I_{CCH}$	$V_{CC} = 5.5\text{ V}$		12	17.5		12	17.5	mA
$I_{CCL}$	$V_{CC} = 5.5\text{ V}$		14	20		14	20	mA

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

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



# SN54ALS138A, SN54AS138, SN74ALS138A, SN74AS138 3-LINE TO 8-LINE DECODERS/DEMULTIPLEXERS

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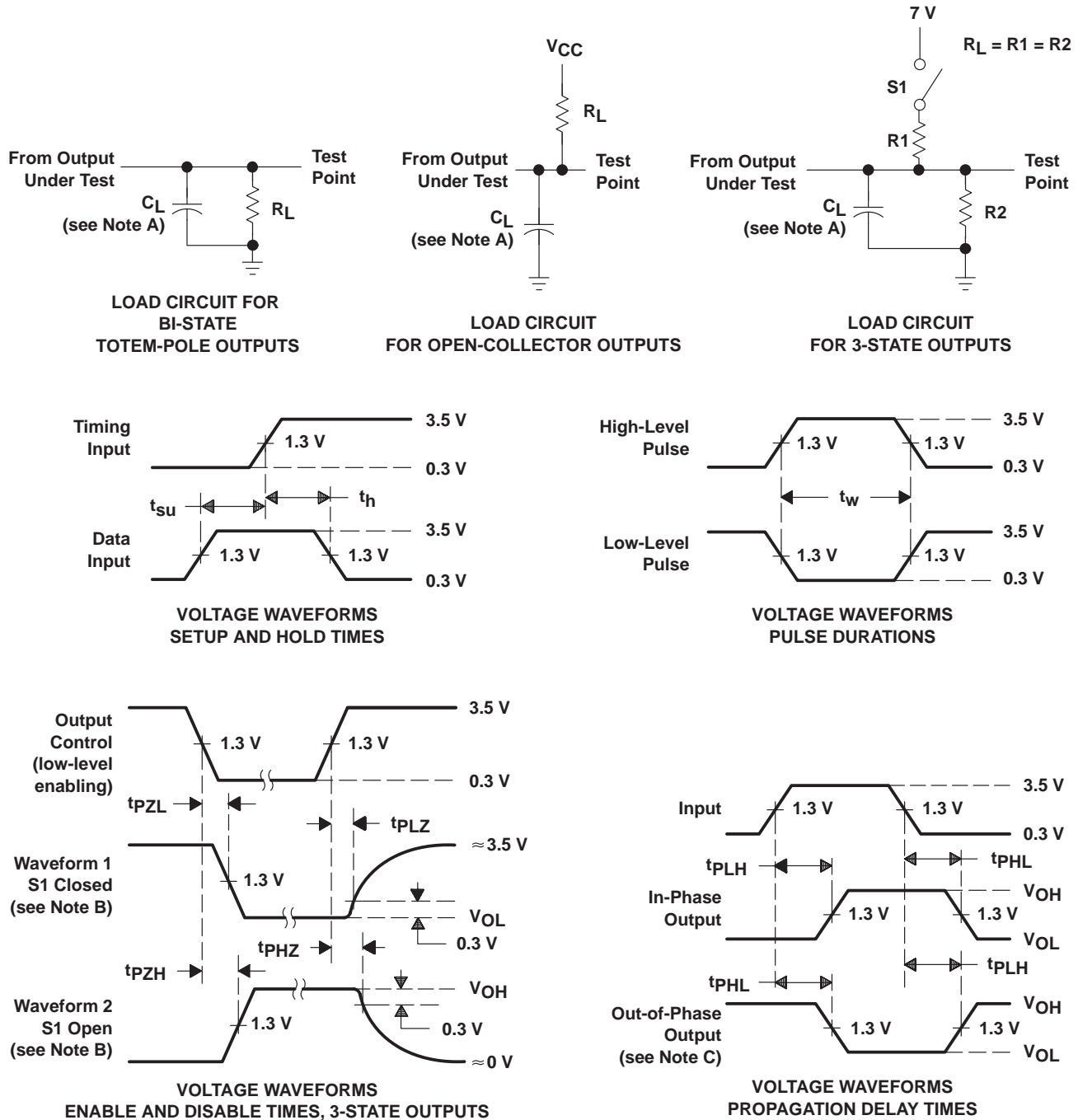
## switching characteristics (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	$V_{CC} = 4.5\text{ V to }5.5\text{ V},$ $C_L = 50\text{ pF},$ $R_L = 500\ \Omega,$ $T_A = \text{MIN to MAX}^\dagger$				UNIT
			SN54AS138		SN74AS138		
			MIN	MAX	MIN	MAX	
$t_{PLH}$	A, B, C	Any Y	2	11	2	10	ns
$t_{PHL}$			2	11	2	9.5	
$t_{PLH}$	G1	Any Y	2	11.5	2	10	ns
$t_{PHL}$			2	11	2	10	
$t_{PLH}$	$\overline{G2}$	Any Y	2	9	2	7.5	ns
$t_{PHL}$			2	10	2	8.5	

† 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

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## SN74AS138, 3-Line To 8-Line Decoders/Demultiplexers

DEVICE STATUS: **ACTIVE**

PARAMETER NAME	SN54AS138	SN74AS138
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)		-2/20
Output	2S	2S
From	3	3
To	8	8

### FEATURES

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- Designed Specifically for High-Speed Memory Decoders and Data Transmission Systems
- Incorporate Three Enable Inputs to Simplify Cascading and/or Data Reception
- 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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The 74ALS138A and 74AS138 are 3-line to 8-line decoders/demultiplexers designed for high-performance memory-decoding or data-routing applications requiring very short propagation delay times. In high-performance systems, these devices can be used to minimize the effects of system decoding. When employed with high-speed memories with a fast enable circuit, the delay times of the decoder and the enable time of the memory are usually less than the typical access time of the memory. The effective system delay introduced by the Schottky-clamped system decoder is negligible.

The conditions at the binary-select (A, B, and C) inputs and the three enable ( $\overline{G1}$ ,  $\overline{G2A}$ , and  $\overline{G2B}$ ) inputs select one of eight output lines. Two active-low and one active-high enable inputs reduce the need for external gates or inverters when expanding. A 24-line decoder can be implemented without external inverters and a 32-line decoder requires only one inverter. An enable input can be used as a data input for demultiplexing applications.

The SN54ALS138A and SN54AS138 are characterized for operation over the full military temperature range of -55°C to 125°C. The SN74ALS138A and SN74AS138 are characterized for operation from 0°C to 70°C.

### TECHNICAL DOCUMENTS

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Full datasheet in Acrobat PDF: [sn74as138.pdf](#) (122 KB,Rev.E) (Updated: 07/01/1996)

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- [Advanced Schottky \(ALS and AS\) Logic Families](#) (SDAA010 - Updated: 08/01/1995)
- [Advanced Schottky Load Management](#) (SDYA016 - Updated: 02/01/1997)
- [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)

## RELATED DOCUMENTS

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- [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   SUS	STD PACK QTY	IN STOCK	IN PROGRESS QTY DATE	LEAD TIME	DISTRIBUTOR COMPANY REGION	IN STOCK	PURCHASE
SN74AS138D	ACTIVE	<a href="#">SOP (D)</a>   16	0 TO 70	<a href="#">View Contents</a>	1KU   0.71	40	120	4120   19 Sep	5 WKS			
								1114   02 Oct				
								> 10k   09 Oct				
								6526   16 Oct				
SN74AS138DR	ACTIVE	<a href="#">SOP (D)</a>   16	0 TO 70	<a href="#">View Contents</a>	1KU   0.74	2500	2500	1243   23 Sep	5 WKS			
								1114   02 Oct				
								> 10k   09 Oct				
								6526   16 Oct				
SN74AS138N	ACTIVE	<a href="#">PDIP (N)</a>   16	0 TO 70	<a href="#">View Contents</a>	1KU   0.64	25	550	3350   19 Sep	5 WKS	<a href="#">Avnet</a>   AMERICA	> 1k	<b>BUY NOW</b>
								> 10k   03 Oct				
								> 10k   10 Oct				
								> 10k   17 Oct				

SN74AS138N3	OBSOLETE	<a href="#">PDIP (N)</a>   16	0 TO 70	<a href="#">View Contents</a>	1KU		<a href="#">N/A*</a>		Not Available			
SN74AS138NSR	ACTIVE	<a href="#">SOP (NS)</a>   16		<a href="#">View Contents</a>	1KU   0.64	2000	<a href="#">N/A*</a>	2231   14 Oct	5 WKS			
								>10k   21 Oct				

**Table Data Updated on: 9/26/2002**

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PRODUCT SUPPORT: [TRAINING](#)

## SN74ALS138A, 3-Line to 8-Line Decoders/Demultiplexers

DEVICE STATUS: **ACTIVE**

PARAMETER NAME	SN54ALS138A	SN74ALS138A
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	3	3
To	8	8

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### TECHNICAL DOCUMENTS

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- [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)

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- [Military Semiconductors Selection Guide 2002 \(Rev. B\)](#) (SGYC003B, 1648 KB - Updated: 04/22/2002)

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SN74ALS138AD	ACTIVE	<a href="#">SOP (D)</a>   16	0 TO 70	<a href="#">View Contents</a>	1KU   0.45	40	N/A*	> 10k   10 Oct	5 WKS	<a href="#">Avnet</a>   AMERICA	> 1k	<a href="#">BUY NOW</a>
								> 10k   17 Oct				
								2222   24 Oct				
SN74ALS138ADR	ACTIVE	<a href="#">SOP (D)</a>   16	0 TO 70	<a href="#">View Contents</a>	1KU   0.48	2500	N/A*	7500   30 Sep	5 WKS	<a href="#">Avnet</a>   AMERICA	> 1k	<a href="#">BUY NOW</a>
								5000   07 Oct				
								> 10k   08 Oct				
								5000   09 Oct				
								5000   14 Oct				
SN74ALS138AN	ACTIVE	<a href="#">PDIP (N)</a>   16	0 TO 70	<a href="#">View Contents</a>	1KU   0.42	25	N/A*	2800   03 Oct	5 WKS	<a href="#">Avnet</a>   AMERICA	> 1k	<a href="#">BUY NOW</a>
								> 10k   08 Oct		<a href="#">DigiKey</a>   AMERICA	992	<a href="#">BUY NOW</a>
								> 10k   15 Oct				
SN74ALS138ANSR	ACTIVE	<a href="#">SOP (NS)</a>   16		<a href="#">View Contents</a>	1KU   0.42	2000	N/A*	845   23 Sep	5 WKS			

								768   24 Sep				
								2302   11 Oct				
								>10k   18 Oct				
								387   21 Oct				

**Table Data Updated on: 9/26/2002**

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