		WITH 3-STATE OUTPUTS SCLS487A - MAY 2003 - REVISED JUNE 2003
•	Controlled Baseline – One Assembly/Test Site, One Fabrication Site	DW OR PW PACKAGE (TOP VIEW)
•	Extended Temperature Performance of –55°C to 125°C	DIR $\begin{bmatrix} 1 & 20 \end{bmatrix} V_{CC}$ A1 $\begin{bmatrix} 2 & 19 \end{bmatrix} \overline{OE}$ A2 $\begin{bmatrix} 3 & 18 \end{bmatrix} B1$
•	Enhanced Diminishing Manufacturing Sources (DMS) Support	A3 [ 4 17 ] B2 A4 [ 5 16 ] B3
•	Enhanced Product-Change Notification	A5 🛛 6 15 🗍 B4
٠	Qualification Pedigree <sup>†</sup>	A6 <b>[</b> ] 7 14 <b>]</b> B5
٠	Operating Range 2-V to 5.5-V V <sub>CC</sub>	A7 [] 8 13 ]] B6
•	Latch-Up Performance Exceeds 250 mA Per JESD 17	A8 9 12 B7 GND 10 11 B8

ESD Protection Exceeds 1000 V Per MIL-STD-833, Method 3015; Exceeds 100 V Using Machine Model (C = 200 pF, R = 0)

<sup>†</sup> Component qualification in accordance with JEDEC and industry standards to ensure reliable operation over an extended temperature range. This includes, but is not limited to, Highly Accelerated Stress Test (HAST) or biased 85/85, temperature cycle, autoclave or unbiased HAST, electromigration, bond intermetallic life, and mold compound life. Such gualification testing should not be viewed as justifying use of this component beyond specified performance and environmental limits.

### description/ordering information

The SN74AHC245 octal bus transceiver is designed for asynchronous two-way communication between data buses. The control-function implementation minimizes external timing requirements.

This device allows data transmission from the A bus to the B bus or from the B bus to the A bus, depending on the logic level at the direction-control (DIR) input. The output-enable ( $\overline{OE}$ ) input can be used to disable the device so that the buses effectively are isolated.

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

TA	T <sub>A</sub> PACKAGE <sup>‡</sup>		ORDERABLE PART NUMBER	TOP-SIDE MARKING		
–55°C to 125°C	SOIC – DW	Tape and reel	SN74AHC245MDWREP	AHC245MEP		
-55 C 10 125 C	TSSOP – PW	Tape and reel	SN74AHC245MPWREP	AHC245EP		

### **ORDERING INFORMATION**

<sup>‡</sup> Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.



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SN74AHC245-EP

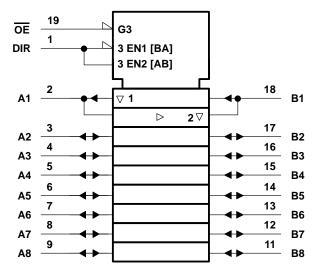
**OCTAL BUS TRANSCEIVER** 

### SN74AHC245-EP OCTAL BUS TRANSCEIVER WITH 3-STATE OUTPUTS SCLS487A – MAY 2003 – REVISED JUNE 2003

### FUNCTION TABLE

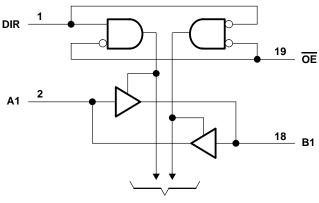
-	(each transceiver)											
INP	UTS	OPERATION										
OE	DIR	OPERATION										
L	L	B data to A bus										
L	н	A data to B bus										
н	Х	Isolation										

## logic symbol<sup>†</sup>



<sup>†</sup> This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12.

### logic diagram (positive logic)



To Seven Other Channels



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### absolute maximum ratings over operating free-air temperature range (unless otherwise noted)<sup>†</sup>

Supply voltage renge V.	0.5  V  to  7  V
Supply voltage range, V <sub>CC</sub>	
Input voltage range, V <sub>I</sub> (see Note 1): Control inputs	
I/O, output voltage range, V <sub>O</sub> (see Note 1)	
Input clamp current, I <sub>IK</sub> (V <sub>I</sub> < 0): Control inputs	
I/O, output clamp current, $I_{OK}$ (V <sub>O</sub> < 0 or V <sub>O</sub> > V <sub>CC</sub> )	
Continuous output current, $I_O (V_O = 0 \text{ to } V_{CC})$	±25 mA
Continuous current through V <sub>CC</sub> or GND	
Package thermal impedance, $\theta_{JA}$ (see Note 2): DW package	
PW package	
Storage temperature range, T <sub>stg</sub>	–65°C to 150°C

<sup>†</sup> 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.

NOTES: 1. The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

2. The package thermal impedance is calculated in accordance with JESD 51-7.

### recommended operating conditions (see Note 3)

			MIN	MAX	UNIT	
VCC	Supply voltage		2	5.5	V	
		$V_{CC} = 2 V$	1.5			
VIH	High-level input voltage	$V_{CC} = 3 V$	2.1		V	
		V <sub>CC</sub> = 5.5 V	3.85			
		$V_{CC} = 2 V$		0.5		
VIL	Low-level input voltage	$V_{CC} = 3 V$		0.9	V	
		$V_{CC} = 5.5 V$		1.65		
VI	Input voltage	OE or DIR	0	5.5	V	
VO	Output voltage	A or B	0	VCC	V	
		$V_{CC} = 2 V$		-50	μΑ	
ЮН	High-level output current	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		-4	~^^	
		$V_{CC}$ = 5 V ± 0.5 V		—8 mA		
		V <sub>CC</sub> = 2 V		50	μA	
IOL	Low-level output current	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		4	~^^	
		$V_{CC}$ = 5 V ± 0.5 V		8	mA	
A+/A)-	Input transition rise or fell rate	$V_{CC}$ = 3.3 V ± 0.3 V		100	<b>DO</b> //	
$\Delta t / \Delta v$	Input transition rise or fall rate	$V_{CC}$ = 5 V ± 0.5 V		20	ns/V	
Т <sub>А</sub>	Operating free-air temperature		-55	125	°C	

NOTE 3: All unused inputs of the device must be held at V<sub>CC</sub> or GND to ensure proper device operation. Refer to the TI application report, Implications of Slow or Floating CMOS Inputs, literature number SCBA004.



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

-	$I_{OH} = -4 \text{ mA}$ $I_{OH} = -8 \text{ mA}$		Vee	Τį	<b>₄ = 25°C</b>	;	MIN	МАХ	UNIT
F	ARAMETER	TEST CONDITIONS	Vcc	MIN	MIN TYP MAX   1.9 2 1.9		UNIT		
			2 V	1.9	2		1.9		
		I <sub>OH</sub> = -50 μA	3 V	2.9	3		2.9		
Vон			4.5 V	4.4	4.5		4.4		V
		$I_{OH} = -4 \text{ mA}$	3 V	2.58			2.48		
		I <sub>OH</sub> = –8 mA	4.5 V	3.94			3.8		
			2 V			0.1		0.1	V
		I <sub>OL</sub> = 50 μA	3 V			0.1		0.1	
VOL			4.5 V			0.1		0.1	
VOL	I <sub>OL</sub> = 4 mA	3 V			0.36		0.5		
		I <sub>OL</sub> = 8 mA	4.5 V			0.36		0.5	
	A or B inputs		5.5 V			±0.1		±1	٩
1 <sub>1</sub>	OE or DIR	V <sub>l</sub> = 5.5 V or GND	0 V to 5.5 V			±0.1		±1	μA
loz†		$V_{O} = V_{CC}$ or GND, $V_{I} (\overline{OE}) = V_{IL}$ or $V_{IH}$	5.5 V			±0.25		±2.5	μA
ICC		$V_{I} = V_{CC} \text{ or } GND, \qquad I_{O} = 0$	5.5 V			4		40	μA
с <sub>і</sub>	OE or DIR	$V_I = V_{CC}$ or GND	5 V		2.5	10			pF
Cio	A or B inputs	$V_I = V_{CC}$ or GND	5 V		4				pF

<sup>†</sup> The parameter I<sub>OZ</sub> includes the input leakage current.

# switching characteristics over recommended operating free-air temperature range, $V_{CC}$ = 3.3 V $\pm$ 0.3 V (unless otherwise noted) (see Figure 1)

PARAMETER	FROM	то	LOAD	Тд	_= 25°C	;	MIN	МАХ	UNIT
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	WIIN	MAX	UNIT
<sup>t</sup> PLH	A or B	B or A	C <sub>L</sub> = 15 pF		5.8	8.4	1	10	ns
<sup>t</sup> PHL	AUIB	BUIA			5.8	8.4	1	10	115
<sup>t</sup> PZH		A or B	C <sub>I</sub> = 15 pF		8.5	13.2	1	15.5	ns
<sup>t</sup> PZL	UE	AUB	0L = 13 pi		8.5	13.2	1	15.5	115
<sup>t</sup> PHZ		A or B	C <sub>L</sub> = 15 pF		8.9	12.5	1	15.5	ns
<sup>t</sup> PLZ	UE	AUB			8.9	12.5	1	15.5	
<sup>t</sup> PLH	A or B	B or A	C <sub>L</sub> = 50 pF		8.3	11.9	1	13.5	20
<sup>t</sup> PHL	AUB	B of A	CL = 50 pF		8.3	11.9	1	13.5	ns
<sup>t</sup> PZH		A or B	C <sub>L</sub> = 50 pF		11	16.7	1	19	20
<sup>t</sup> PZL	OE	A or B	0L = 50 pr		11	16.7	1	19	ns
<sup>t</sup> PHZ	OE	A or B	$C_{\rm L} = 50  \rm pE$		11.5	15.8	1	18	20
<sup>t</sup> PLZ		AUID	C <sub>L</sub> = 50 pF		11.5	15.8	1	18	ns



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# switching characteristics over recommended operating free-air temperature range, $V_{CC}$ = 5 V $\pm$ 0.5 V (unless otherwise noted) (see Figure 1)

PARAMETER	FROM	то	LOAD	Тд	_ = 25°C	;	MIN	МАХ	UNIT
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX		IVIAA	
<sup>t</sup> PLH	A or B	B or A	C <sub>L</sub> = 15 pF		4	5.5	1	6.5	ns
<sup>t</sup> PHL	AUB	BOTA			4	5.5	1	6.5	115
<sup>t</sup> PZH	OE	A or B	C <sub>L</sub> = 15 pF		5.8	8.5	1	10	
<sup>t</sup> PZL	ÛE		CL = 15 pr		5.8	8.5	1	10	ns
<sup>t</sup> PHZ	OE	A or B	C <sub>L</sub> = 15 pF		5.6	7.8	1	9.2	ns
<sup>t</sup> PLZ	ÛE	AUB	CL = 15 pr		5.6	7.8	1	9.2	
<sup>t</sup> PLH	A or B	B or A	$C_{\rm L} = 50  \rm pE$		5.5	7.5	1	8.5	ns
<sup>t</sup> PHL	AUB	BOLA	C <sub>L</sub> = 50 pF		5.5	7.5	1	8.5	115
<sup>t</sup> PZH	OE	A or B	$C_{\rm L} = 50  \rm pE$		7.3	10.6	1	12	ns
<sup>t</sup> PZL	OE	A OF B	CL = 50 pF		7.3	10.6	1	12	IIS
<sup>t</sup> PHZ	OE	A or B	$C_{\rm L} = 50  \rm pE$		7	9.7	1	11	ns
<sup>t</sup> PLZ		AUD	C <sub>L</sub> = 50 pF		7	9.7	1	11	115

# noise characteristics, V<sub>CC</sub> = 5 V, C<sub>L</sub> = 50 pF, T<sub>A</sub> = 25°C (see Note 4)

	PARAMETER	MIN	TYP	MAX	UNIT
VOL(P)	Quiet output, maximum dynamic V <sub>OL</sub>		0.9		V
VOL(V)	Quiet output, minimum dynamic V <sub>OL</sub>		-0.9		V
VOH(V)	Quiet output, minimum dynamic V <sub>OH</sub>		4.3		V
VIH(D)	High-level dynamic input voltage	3.5			V
V <sub>IL(D)</sub>	Low-level dynamic input voltage			1.5	V

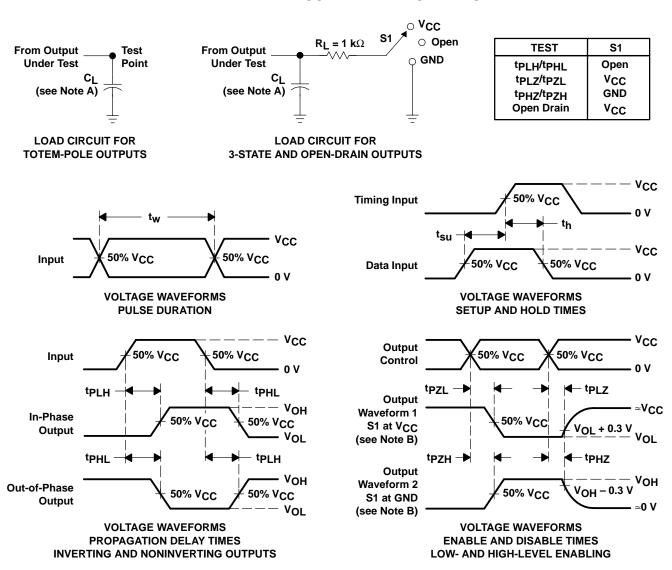
NOTE 4: Characteristics are for surface-mount packages only.

### operating characteristics, V<sub>CC</sub> = 5 V, T<sub>A</sub> = $25^{\circ}$ C

PARAMETER	TEST C	ONDITIONS	TYP	UNIT
C <sub>pd</sub> Power dissipation capacitance	No load,	f = 1 MHz	14	pF



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PARAMETER MEASUREMENT INFORMATION

NOTES: A. CL 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  $\leq$  1 MHz, Z<sub>O</sub> = 50  $\Omega$ , t<sub>f</sub>  $\leq$  3 ns, t<sub>f</sub>  $\leq$  3 ns.
- D. The outputs are measured one at a time with one input transition per measurement.

Figure 1. Load Circuit and Voltage Waveforms





10-Jun-2014

### **PACKAGING INFORMATION**

Orderable Device	Status	Package Type		Pins	-	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
	(1)		Drawing		Qty	(2)	(6)	(3)		(4/5)	
SN74AHC245MDWREP	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	AHC245MEP	Samples
SN74AHC245MPWREP	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	AHC245EP	Samples
V62/03650-01XE	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	AHC245EP	Samples
V62/03650-01YE	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	AHC245MEP	Samples

<sup>(1)</sup> 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.

<sup>(2)</sup> Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.

**TBD:** The Pb-Free/Green conversion plan has not been defined.

**Pb-Free (RoHS):** TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

**Pb-Free (RoHS Exempt):** This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

<sup>(3)</sup> MSL, Peak Temp. - The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

<sup>(4)</sup> 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.

<sup>(6)</sup> 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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#### OTHER QUALIFIED VERSIONS OF SN74AHC245-EP :

- Catalog: SN74AHC245
- Automotive: SN74AHC245-Q1
- Military: SN54AHC245

NOTE: Qualified Version Definitions:

- Catalog TI's standard catalog product
- Automotive Q100 devices qualified for high-reliability automotive applications targeting zero defects
- Military QML certified for Military and Defense Applications

# PACKAGE MATERIALS INFORMATION

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### TAPE AND REEL INFORMATION





## 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
SN74AHC245MDWREP	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
SN74AHC245MPWREP	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1

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# PACKAGE MATERIALS INFORMATION

4-Mar-2013



\*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AHC245MDWREP	SOIC	DW	20	2000	367.0	367.0	45.0
SN74AHC245MPWREP	TSSOP	PW	20	2000	367.0	367.0	38.0

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