SCLS007D - MARCH 1984 - REVISED AUGUST 2003

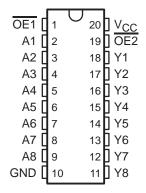
- Wide Operating Voltage Range of 2 V to 6 V
- High-Current 3-State Outputs Drive Bus Lines Directly or Up To 15 LSTTL Loads
- Low Power Consumption, 80-μA Max I_{CC}
- Typical t_{pd} = 8 ns
- ±6-mA Output Drive at 5 V
- Low Input Current of 1 μA Max
- Data Flow-Through Pinout (All Inputs on Opposite Side From Outputs)

description/ordering information

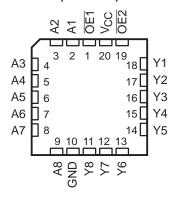
These octal buffers and line drivers feature the performance of the popular 'HC240 series and offer a pinout with inputs and outputs on opposite sides of the package. This arrangement greatly facilitates printed circuit board layout.

The 3-state control gate is a 2-input NOR. If either output-enable (OE1 or OE2) input is high, all eight outputs are in the high-impedance state. The 'HC540 devices provide inverted data at the outputs.

SN54HC540 . . . J OR W PACKAGE SN74HC540 . . . DB, DW, N, NS, OR PW PACKAGE (TOP VIEW)



SN54HC540 . . . FK PACKAGE (TOP VIEW)



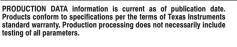
ORDERING INFORMATION

TA	PACKA	GE [†]	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	PDIP – N	Tube of 20	SN74HC540N	SN74HC540N
	0010 011	Tube of 25	SN74HC540DW	110540
1000	SOIC – DW	Reel of 2000	SN74HC540DWR	HC540
	SOP - NS	Reel of 2000	SN74HC540NSR	HC540
-40°C to 85°C	SSOP - DB	Reel of 2000	SN74HC540DBR	HC540
		Tube of 70	SN74HC540PW	
	TSSOP - PW	Reel of 2000	SN74HC540PWR	HC540
		Reel of 250	SN74HC540PWT	
	CDIP – J	Tube of 20	SNJ54HC540J	SNJ54HC540J
−55°C to 125°C	CFP – W	Tube of 85	SNJ54HC540W	SNJ54HC540W
	LCCC - FK	Tube of 55	SNJ54HC540FK	SNJ54HC540FK

[†] Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.



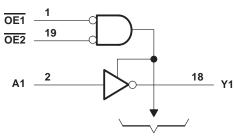


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FUNCTION TABLE (each buffer/driver)

	INPUTS		OUTPUT
OE1	OE2	Α	Y
L	L	L	Н
L	L	Н	L
Н	X	Χ	Z
Х	Н	Χ	Z

logic diagram (positive logic)



To Seven Other Channels

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

Supply voltage range, V _{CC}	–0.5 V to 7 V
Input clamp current, I _{IK} (V _I < 0 or V _I > V _{CC}) (see N	Note 1) ±20 mA
Output clamp current, I _{OK} (V _O < 0 or V _O > V _{CC}) (s	see Note 1) ±20 mA
Continuous output current, $I_O(V_O = 0 \text{ to } V_{CC})$	±35 mA
Continuous current through V _{CC} or GND	±70 mA
Package thermal impedance, θ_{JA} (see Note 2): DI	B package 70°C/W
DI	<i>N</i> package 58°C/W
N	package 69°C/W
N:	S package 60°C/W
P\	<i>N</i> package 83°C/W
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.

- 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.



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recommended operating conditions (see Note 3)

			SI SI	154HC54	10	SN	174HC54	0		
			MIN	NOM	MAX	MIN	NOM	MAX	UNIT	
VCC	Supply voltage		2	5	6	2	5	6	V	
		V _{CC} = 2 V	1.5			1.5				
VIH	V _{IH} High-level input voltage	V _{CC} = 4.5 V	3.15			3.15			V	
		V _{CC} = 6 V	4.2			4.2				
		V _{CC} = 2 V			0.5			0.5		
VIL	Low-level input voltage	V _{CC} = 4.5 V			1.35			1.35	V	
		VCC = 6 V			1.8			1.8		
VI	Input voltage		0		VCC	0		VCC	V	
VO	Output voltage		0		VCC	0		VCC	V	
		V _{CC} = 2 V			1000			1000		
Δt/Δν	Input transition rise/fall time	V _{CC} = 4.5 V			500			500	ns	
		VCC = 6 V			400			400		
TA	Operating free-air temperature		-55		125	-40		85	°C	

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

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

			.,	Т	A = 25°C	;	SN54H	C540	SN74H	C540	
PARAMETER	TEST CO	ONDITIONS	VCC	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
			2 V	1.9	1.998		1.9		1.9		
		$I_{OH} = -20 \mu A$	4.5 V	4.4	4.499		4.4		4.4		
Voн	VI = VIH or VIL		6 V	5.9	5.999		5.9		5.9		V
		$I_{OH} = -6 \text{ mA}$	4.5 V	3.98	4.3		3.7		3.84		
		$I_{OH} = -7.8 \text{ mA}$	6 V	5.48	5.8		5.2		5.34		
	VI = VIH or VIL	I _{OL} = 20 μA	2 V		0.002	0.1		0.1		0.1	
			4.5 V		0.001	0.1		0.1		0.1	
V _{OL}			6 V		0.001	0.1		0.1		0.1	V
		I _{OL} = 6 mA	4.5 V		0.17	0.26		0.4		0.33	0.33
		$I_{OL} = 7.8 \text{ mA}$	6 V		0.15	0.26		0.4		0.33	
lį	$V_I = V_{CC}$ or 0		6 V		±0.1	±100		±1000	:	±1000	nA
loz	VO = VCC or 0		6 V		±0.01	±0.5		±10		±5	μΑ
Icc	$V_I = V_{CC}$ or 0,	IO = 0	6 V			8		160	·	80	μΑ
C _i			2 V to 6 V		3	10		10		10	pF

SN54HC540, SN74HC540 OCTAL BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS

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switching characteristics over recommended operating free-air temperature range, C_L = 50 pF (unless otherwise noted) (see Figure 1)

242445	FROM	то	,,	T,	λ = 25°C	;	SN54H	C540	SN74H	IC540		
PARAMETER	(INPUT)	(OUTPUT)	VCC	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT	
			2 V		35	100		149		125		
^t pd	pd A	Υ	4.5 V		10	20		30		25	ns	
			6 V		8	17		25		21		
			2 V		75	150		224		188		
t _{en}	ŌĒ	Y	4.5 V		15	30		45		38	ns	
			6 V		13	26		38		32		
			2 V		40	150		224		188		
^t dis	ŌĒ	Υ	4.5 V		18	30		45		38	ns	
			6 V		17	26		38		32		
			2 V		28	60		90		75		
t _t		Υ	4.5 V		8	12		18		15	ns	
			6 V		6	10		15		13		

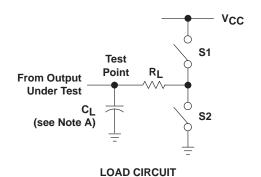
switching characteristics over recommended operating free-air temperature range, C_L = 150 pF (unless otherwise noted) (see Figure 1)

DADAMETER	FROM	TO (OUTPUT)		T _A = 25°C			SN54HC540		SN74HC540		
PARAMETER	(INPUT)		VCC	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
			2 V		60	150		224		188	
t _{pd}	^t pd A	Y	4.5 V		15	30		45		38	ns
'			6 V		13	26		38		32	
	ŌĒ	Y	2 V		100	200		298		250	
t _{en}			4.5 V		20	40		60		50	ns
			6 V		17	34		51		43	
			2 V		45	210		315		265	
t _t		Υ	4.5 V		17	42		63		53	ns
			6 V		13	36		53		45	

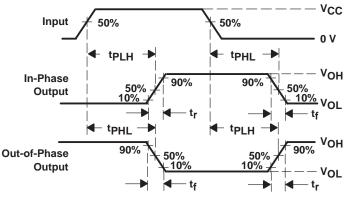
operating characteristics, $T_A = 25^{\circ}C$

	PARAMETER	TEST CONDITIONS	TYP	UNIT
C _{pd}	Power dissipation capacitance per buffer/driver	No load	35	pF

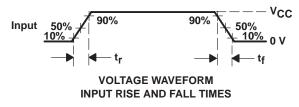
PARAMETER MEASUREMENT INFORMATION

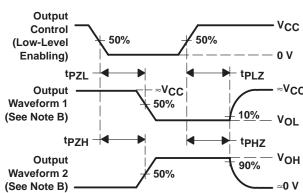


PARAI	METER	RL	CL	S1	S2	
	tPZH	1 kΩ	50 pF or	Open	Closed	
ten	tPZL	1 K22	150 pF	Closed	Open	
4	tPHZ	1 k Ω	50 pF	Open	Closed	
^t dis	tPLZ	1 K22	50 pr	Closed	Open	
t _{pd} or	t _t		50 pF or 150 pF	Open	Open	



VOLTAGE WAVEFORMS
PROPAGATION DELAY AND OUTPUT TRANSITION TIMES





VOLTAGE WAVEFORMS
ENABLE AND DISABLE TIMES FOR 3-STATE OUTPUTS

- NOTES: A. C_L includes probe and test-fixture 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. Phase relationships between waveforms were chosen arbitrarily. All input pulses are supplied by generators having the following characteristics: PRR \leq 1 MHz, Z_O = 50 Ω , t_f = 6 ns.
 - D. The outputs are measured one at a time with one input transition per measurement.
 - E. tpLz and tpHz are the same as tdis.
 - F. tpzL and tpzH are the same as ten.
 - G. tpLH and tpHL are the same as tpd.

Figure 1. Load Circuit and Voltage Waveforms





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PACKAGING INFORMATION

Orderable Dev	/ice	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
JM38510/65710	BRA	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type
SN54HC540	J	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type
SN74HC540E)W	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC540DV	VE4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC540DV	VG4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC540D	WR	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC540DW	/RE4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC540DW	/RG4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC540	N	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74HC540N	IE4	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74HC540N	SR	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC540NS	RE4	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC540NS	RG4	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC540F	PW	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC540PV	VE4	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC540PV	VG4	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC540P	WR	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC540PW	/RE4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC540PW	rG4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC540P	WT	ACTIVE	TSSOP	PW	20	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC540PW	/TE4	ACTIVE	TSSOP	PW	20	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC540PW	/TG4	ACTIVE	TSSOP	PW	20	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SNJ54HC540	FK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type
SNJ54HC540)J	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type

(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.



PACKAGE OPTION ADDENDUM

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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.

(2) 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)

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

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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

All dimensions are nominal												
Device		Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74HC540DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.0	2.7	12.0	24.0	Q1
SN74HC540NSR	SO	NS	20	2000	330.0	24.4	8.2	13.0	2.5	12.0	24.0	Q1
SN74HC540PWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1
SN74HC540PWT	TSSOP	PW	20	250	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1

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*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)	
SN74HC540DWR	SOIC	DW	20	2000	346.0	346.0	41.0	
SN74HC540NSR	SO	NS	20	2000	346.0	346.0	41.0	
SN74HC540PWR	TSSOP	PW	20	2000	346.0	346.0	33.0	
SN74HC540PWT	TSSOP	PW	20	250	346.0	346.0	33.0	

14 LEADS SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package is hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
- E. Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, GDIP1-T18 and GDIP1-T20.

FK (S-CQCC-N**)

28 TERMINAL SHOWN

LEADLESS CERAMIC CHIP CARRIER



NOTES: A. All linear dimensions are in inches (millimeters).

- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a metal lid.
- D. The terminals are gold plated.
- E. Falls within JEDEC MS-004



N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



- 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.



DW (R-PDSO-G20)

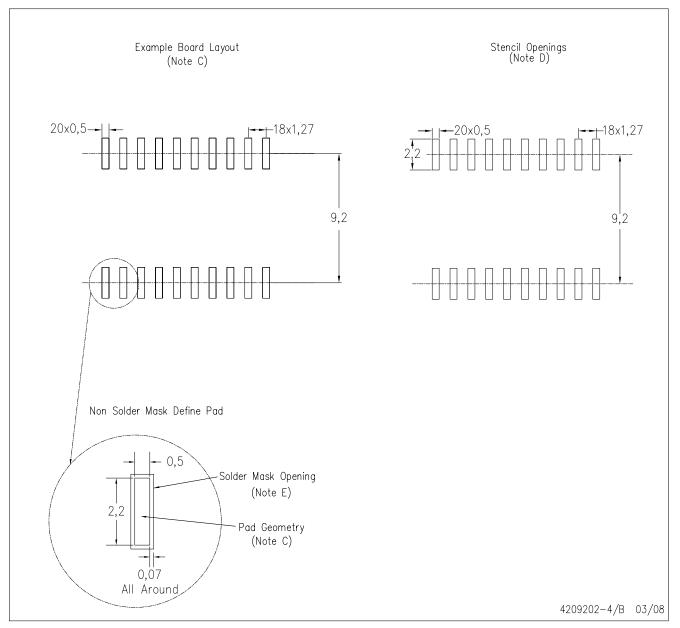
PLASTIC SMALL-OUTLINE PACKAGE



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion not to exceed 0.006 (0,15).
- D. Falls within JEDEC MS-013 variation AC.



DW (R-PDSO-G20)



- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Customers should place a note on the circuit board fabrication drawing not to alter the center solder mask defined pad.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC—7525
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



MECHANICAL DATA

NS (R-PDSO-G**)

14-PINS SHOWN

PLASTIC SMALL-OUTLINE PACKAGE



- 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.



PW (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.

D. Falls within JEDEC MO-153

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DSP	<u>dsp.ti.com</u>	Computers and Peripherals	www.ti.com/computers
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