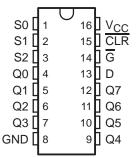
- Wide Operating Voltage Range of 2 V to 6 V
- High-Current Inverting Outputs Drive Up To 10 LSTTL Loads
- Low Power Consumption, 80-μA Max I_{CC}
- Typical t_{pd} = 14 ns
- ±4-mA Output Drive at 5 V
- Low Input Current of 1 μA Max
- 8-Bit Parallel-Out Storage Register Performs Serial-to-Parallel Conversion With Storage
- Asynchronous Parallel Clear
- Active-High Decoder
- Enable Input Simplifies Expansion
- Expandable for n-Bit Applications
- Four Distinct Functional Modes

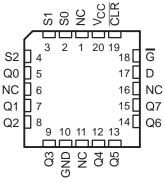
description/ordering information

These 8-bit addressable latches are designed for general-purpose storage applications in digital systems. Specific uses include working registers, serial-holding registers, and active-high decoders or demultiplexers. They are multifunctional devices capable of storing single-line data in eight addressable latches and being a 1-of-8 decoder or demultiplexer with active-high outputs.

SN54HC259 . . . J OR W PACKAGE SN74HC259 . . . D, N, NS, OR PW PACKAGE (TOP VIEW)



SN54HC259 . . . FK PACKAGE (TOP VIEW)



NC - No internal connection

ORDERING INFORMATION

TA	PACKA	GE†	ORDERABLE PART NUMBER	TOP-SIDE MARKING	
	PDIP – N	Tube of 25	SN74HC259N	SN74HC259N	
-40°C to 85°C		Tube of 40	SN74HC259D		
	SOIC - D	Reel of 2500	SN74HC259DR	HC259	
		Reel of 250	SN74HC259DT		
	SOP - NS	Reel of 2000	SN74HC259NSR	HC259	
		Reel of 2000	SN74HC259PWR	110050	
	TSSOP – PW	Reel of 250	SN74HC259PWT	HC259	
	CDIP – J	Tube of 25	SNJ54HC259J	SNJ54HC259J	
–55°C to 125°C	CFP – W	Tube of 150	SNJ54HC259W	SNJ54HC259W	
	LCCC - FK	Tube of 55	SNJ54HC259FK	SNJ54HC259FK	

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



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description/ordering information (continued)

Four distinct modes of operation are selectable by controlling the clear (\overline{CLR}) and enable (\overline{G}) inputs. In the addressable-latch mode, data at the data-in terminal is written into the addressed latch. The addressed latch follows the data input, with all unaddressed latches remaining in their previous states. In the memory mode, all latches remain in their previous states and are unaffected by the data or address inputs. To eliminate the possibility of entering erroneous data in the latches, \overline{G} should be held high (inactive) while the address lines are changing. In the 1-of-8 decoding or demultiplexing mode, the addressed output follows the level of the D input with all other outputs low. In the clear mode, all outputs are low and unaffected by the address and data inputs.

Function Tables

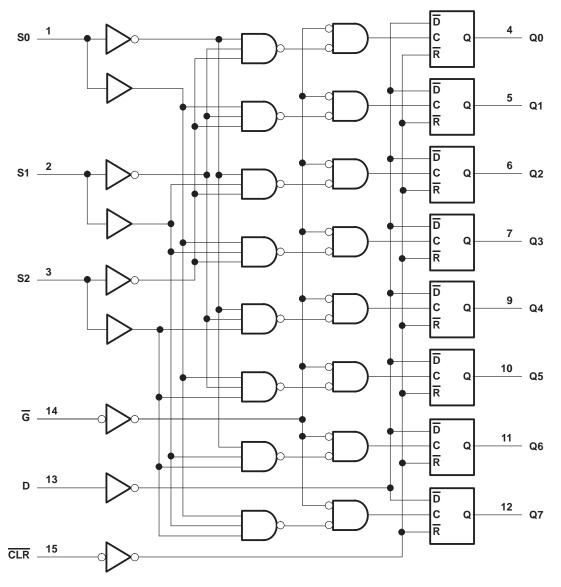
FUNCTION

INPU	JTS	OUTPUT OF ADDRESSED	EACH OTHER	FUNCTION				
CLR G		LATCH	OUTPUT	FUNCTION				
Н	L	D	Q _{iO}	Addressable latch				
Н	Н	Q_{iO}	Q_{iO}	Memory				
L	L	D	L	8-line demultiplexer				
L	Н	L	L	Clear				

LATCH SELECTION

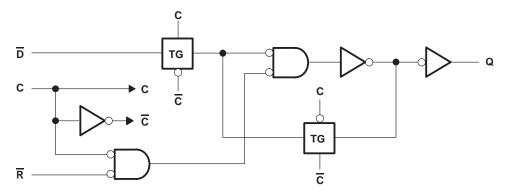
SEL	ECT INP	UTS	LATCH
S2	S1	S0	ADDRESSED
L	L	L	0
L	L	Н	1
L	Н	L	2
L	Н	Н	3
Н	L	L	4
Н	L	Н	5
Н	Н	L	6
Н	Н	Н	7

logic diagram



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

logic diagram, each internal latch (positive logic)



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

Supply voltage range, V_{CC}	ee Note 1)	±20 mA
Output clamp current, I_{OK} ($V_O < 0$ or $V_O > V_{CO}$		
Continuous output current, I_O ($V_O = 0$ to V_{CC})		±25 mA
Continuous current through V _{CC} or GND		±50 mA
Package thermal impedance, θ _{JA} (see Note 2)	: D package	73°C/W
	N package	67°C/W
	NS package	64°C/W
	PW package	108°C/W
Storage temperature range, T _{stq}		–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.

recommended operating conditions (see Note 3)

			SN	N54HC25	59	SN	174HC25	9		
			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				
٧ıH	/IH High-level input voltage	V _{CC} = 4.5 V	3.15			3.15			V	
		VCC = 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	
		V _{CC} = 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	
		V _{CC} = 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 V_{CC} 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)

24244555	7507.00	NIDITIONS	.,	Т	A = 25°C	;	SN54H	IC259	SN74H	C259	LINIT
PARAMETER	TEST CC	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
		$I_{OH} = -4 \text{ mA}$	4.5 V	3.98	4.3		3.7		3.84]
		$I_{OH} = -5.2 \text{ mA}$	6 V	5.48	5.8		5.2		5.34		
		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	
VoL	VI = VIH or VIL		6 V		0.001	0.1		0.1		0.1	V
		I _{OL} = 4 mA	4.5 V		0.17	0.26		0.4		0.33	
		$I_{OL} = 5.2 \text{ mA}$	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
Icc	$V_I = V_{CC}$ or 0,	IO = 0	6 V			8		160		80	μΑ
Ci		_	2 V to 6 V		3	10		10		10	pF

timing requirements over recommended operating free-air temperature range (unless otherwise noted)

1			.,	T _A =	25°C	SN54F	IC259	SN74HC259		
			vcc	MIN	MAX	MIN	MAX	MIN	MAX	UNIT
t _W Pulse du			2 V	80		120		100		
		CLR low	4.5 V	16		24		20		
	Delega deserva		6 V	14		20		17		ns
	Pulse duration	G low	2 V	80		120		100		
			4.5 V	16		24		20		
			6 V	14		20		17		
			2 V	75		115		95		
t _{su}	Setup time, data or address before $\overline{G}\!\!\uparrow$		4.5 V	15		23		19		ns
			6 V	13		20		16		
		_	2 V	5		5		5		
th	Hold time, data or address after $\overline{G}\!\!\uparrow$		4.5 V	5		5		5		ns
			6 V	5		5		5		

SN54HC259, SN74HC259 8-BIT ADDRESSABLE LATCHES

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

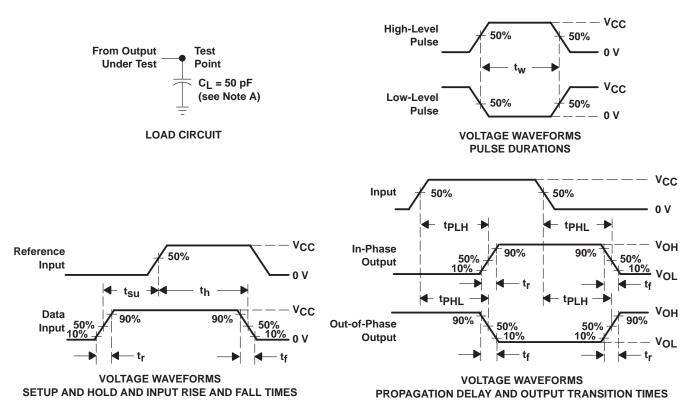
242445	FROM	то	l ,,	T,	ղ = 25°C	;	SN54H	IC259	SN74H	C259		
PARAMETER	(INPUT)	(OUTPUT)	VCC	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT	
			2 V		60	150		225		190		
tPHL	CLR	Any Q	4.5 V		18	30		45		38	ns	
			6 V		14	26		38		32		
			2 V		56	130		195		165		
	Data	Any Q	4.5 V		17	26		39		33		
			6 V		13	22		33		28		
	Address	Any Q	2 V		74	200		300		250	ns	
^t pd			4.5 V		21	40		60		50		
·			6 V		17	34		51		43		
			2 V		66	170		255		215		
	G	Any Q	4.5 V		20	34		51		43		
			6 V		16	29		43		37		
			2 V		28	75		110		95		
t _t		Any	4.5 V		8	15		22		19	ns	
			6 V		6	13		19		16		

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

	PARAMETER	TEST CONDITIONS	TYP	UNIT
C _{pd}	Power dissipation capacitance per latch	No load	33	pF



PARAMETER MEASUREMENT INFORMATION



NOTES: A. C_I includes probe and test-fixture capacitance.

- B. Phase relationships between waveforms were chosen arbitrarily. All input pulses are supplied by generators having the following characteristics: PRR \leq 1 MHz, $Z_O = 50 \ \Omega$, $t_f = 6 \ ns$, $t_f = 6 \ ns$.
- C. The outputs are measured one at a time with one input transition per measurement.
- D. tpLH and tpHL are the same as tpd.

Figure 1. Load Circuit and Voltage Waveforms



PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
85519012A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type
8551901EA	ACTIVE	CDIP	J	16	1	TBD	A42 SNPB	N / A for Pkg Type
8551901FA	ACTIVE	CFP	W	16	1	TBD	A42	N / A for Pkg Type
JM38510/65402BEA	ACTIVE	CDIP	J	16	1	TBD	A42 SNPB	N / A for Pkg Type
SN54HC259J	ACTIVE	CDIP	J	16	1	TBD	A42 SNPB	N / A for Pkg Type
SN74HC259D	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC259DE4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC259DG4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC259DR	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC259DRE4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC259DRG4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC259DT	ACTIVE	SOIC	D	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC259DTE4	ACTIVE	SOIC	D	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC259DTG4	ACTIVE	SOIC	D	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC259N	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74HC259NE4	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74HC259NSR	ACTIVE	so	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC259NSRE4	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC259NSRG4	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC259PWLE	OBSOLETE	TSSOP	PW	16		TBD	Call TI	Call TI
SN74HC259PWR	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC259PWRE4	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC259PWRG4	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC259PWT	ACTIVE	TSSOP	PW	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC259PWTE4	ACTIVE	TSSOP	PW	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC259PWTG4	ACTIVE	TSSOP	PW	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SNJ54HC259FK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type
SNJ54HC259J	ACTIVE	CDIP	J	16	1	TBD	A42 SNPB	N / A for Pkg Type



PACKAGE OPTION ADDENDUM

9-Oct-2007

⁽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.

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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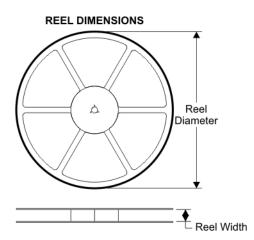
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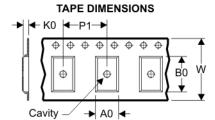




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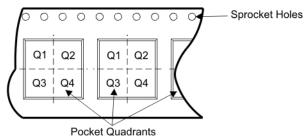
TAPE AND REEL BOX INFORMATION





	Dimension designed to accommodate the component width
B0	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



Device	Package	Pins	Site	Reel Diameter (mm)	Reel Width (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74HC259DR	D	16	SITE 27	330	16	6.5	10.3	2.1	8	16	Q1
SN74HC259DR	D	16	SITE 41	330	16	6.5	10.3	2.1	8	16	Q1
SN74HC259NSR	NS	16	SITE 41	330	16	8.2	10.5	2.5	12	16	Q1
SN74HC259PWR	PW	16	SITE 41	330	12	7.0	5.6	1.6	8	12	Q1





Device	Package	Pins	Site	Length (mm)	Width (mm)	Height (mm)
SN74HC259DR	D	16	SITE 27	342.9	336.6	28.58
SN74HC259DR	D	16	SITE 41	346.0	346.0	33.0
SN74HC259NSR	NS	16	SITE 41	346.0	346.0	33.0
SN74HC259PWR	PW	16	SITE 41	346.0	346.0	29.0

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.

W (R-GDFP-F16)

CERAMIC DUAL FLATPACK



- 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 ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only.
- E. Falls within MIL STD 1835 GDFP1-F16 and JEDEC MO-092AC



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.



D (R-PDSO-G16)

PLASTIC SMALL-OUTLINE PACKAGE



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed .006 (0,15) per end.
- Body width does not include interlead flash. Interlead flash shall not exceed .017 (0,43) per side.
- E. Reference JEDEC MS-012 variation AC.



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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