- Package Options Include Plastic "Small Outline" Packages, Ceramic Chip Carriers and Flat Packages, and Plastic and Ceramic DIPs
- Dependable Texas Instruments Quality and Reliability

description

The '279 offers 4 basic $\overline{S} \cdot \overline{R}$ flip-flop latches in one 16-pin, 300-mil package. Under conventional operation, the $\overline{S} \cdot \overline{R}$ inputs are normally held high. When the \overline{S} input is pulsed low, the Ω output will be set high. When \overline{R} is pulsed low, the Ω output will be reset low. Normally, the $\overline{S} \cdot \overline{R}$ inputs should not be taken low simultaneously. The Ω output will be unpredictable in this condition.

FUNCTION TABLE (each latch)

INP	UTS	OUTPUT
St	R	a
н	Н	α ₀
L	Н	н
н	L	L
L	L	H [‡]
l .		

H = high level

L = low level

†For latches with double S inputs:

 Ω_0 = the level of Ω before the indicated input conditions were established.

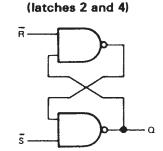
 $H = both \overline{S}$ inputs high

L = one or both \$\overline{S}\$ inputs low

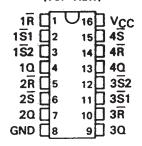
logic diagram (positive logic)

\$1 0 0

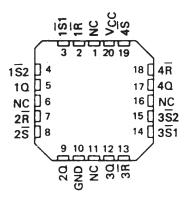
(latches 1 and 3)



SN54279, SN54LS279A . . . J OR W PACKAGE SN74279 . . . N PACKAGE SN74LS279A . . . D OR N PACKAGE (TOP VIEW)

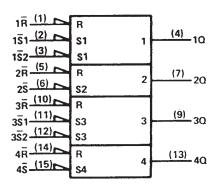


SN54LS279A . . . FK PACKAGE (TOP VIEW)



NC - No internal connection

logic symbol§



[§]This symbol is in accordance with ANSI/IEEE Std. 91-1984 and IEC Publication 617-12.

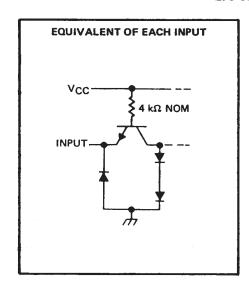
Pin numbers shown are for D, J, N, and W packages.

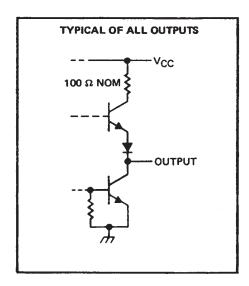
 $^{^\}ddagger$ This configuration is nonstable: that is, it may not persist when the \overline{S} and \overline{R} inputs return to their inactive (high) level.

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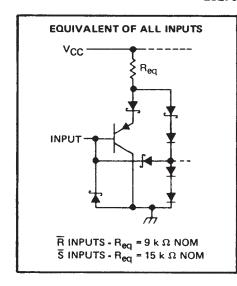
schematics of inputs and outputs

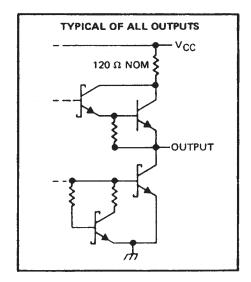
'279 CIRCUITS





'LS279A CIRCUITS





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

Supply voltage, VCC (see Note 1)	7 V
Input voltage: '279	5.5 V
' LS279A	7 V
Operating free-air temperature range: SN54' TYPES	55° C to 125° C
SN74' TYPES	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

			SN54279				SN74279			
		MIN	NOM	MAX	MIN	NOM	MAX	UNIT		
VCC	Supply voltage	4.5	5	5.5	4.75	5	5.25	V		
VIH	High-level input voltage	2			2			V		
VIL	Low-level input voltage			0.8			0.8	V		
Юн	High-level output current			- 0.8			- 0.8	mA		
IOL	Low-level output current			16			16	mA		
tw	Pulse duration, low	20			20			ns		
TA	Operating free-air temperature	- 55		125	0		70	°C		

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

PARAMETER			SN5427	9		SN7427	9	UNIT		
FANAME (Ch		TEST CONDIT	MIN	TYP‡	MAX	MIN	TYP‡	MAX	UNII	
VIK	VCC = MIN,	I _I = - 12 mA				– 1.5			- 1.5	V
Voн	V _{CC} = MIN,	V _{IL} = 0.8 V,	1 _{OH} = - 0.8 mA	2.4	3.4		2.4	3.4		V
VOL	V _{CC} = MIN,	V _{1H} = 2 V,	1 _{OL} = 16 mA		0.2	0.4		0.2	0.4	V
11	V _{CC} = MAX,	V _I = 5.5 V				1			1	mA
Чн	V _{CC} = MAX,	V ₁ = 2.4 V				40			40	μΑ
IIL	V _{CC} = MAX,	V ₁ = 0.4 V				- 1.6			- 1.6	mA
I _{OS} \$	V _{CC} = MAX			- 18		- 55	- 18		- 57	mA
1cc	V _{CC} = MAX,	See Note 2			18	30		18	30	mΑ

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

NOTE 2: I_{CC} is measured with all R inputs grounded, all S inputs at 4.5 V, and all outputs open.

switching characteristics, VCC = 5 V, TA = 25°C (see note 3)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	TEST CON	IDITIONS	MIN	TYP	MAX	UNIT
^t PLH	<u>-</u>					12	22	ns
^t PHL	3		$R_L = 400 \Omega$,	C ₁ = 15 pF		9	15	113
^t PHL	Ř	Q				15	27	ns

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

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

Not more than one output should be shorted at a time.

SN54279, SN54LS279A, SN74279, SN74LS279A QUADRUPLE \overline{S} - \overline{R} LATCHES

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recommended operating conditions

		sı	SN54LS279A			SN74LS279A			
		MIN	NOM	MAX	MIN	NOM	MAX	UNIT	
Vcc	Supply voltage	4.5	5	5.5	4.75	5	5.25	٧	
VIH	High-level input voltage	2			2			V	
VIL	Low-level input voltage			0.7			0.8	V	
Іон	High-level output current			0.4			- 0.4	mA	
IOL	Low-level output current			4			8	mΑ	
t _W	Pulse duration, low	20			20			ns	
TA	Operating free-air temperature	– 55		125	0		70	°C	

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

BADAMETED	TEST CONDITIONS†				154LS27	79A	SN	174LS27	79A	UNIT
PARAMETER		1EST CONDIT	MIN	TYP‡	MAX	MIN	TYP‡	MAX	UNIT	
VIK	V _{CC} = MIN,	I _I = - 18 mA				1.5			- 1.5	V
Voн	V _{CC} = MIN,	VIL = MAX,	I _{OH} = 0.4 mA	2.5	3.4		2.7	3.4		V
V	V _{CC} = MIN,	V _{IH} = 2 V,	IOL = 4 mA		0.25	0.4		0.25	0.4	V
VOL	V _{CC} = MIN,	V _{1H} = 2 V,	IOL = 8 mA					0.25	0.5	v
11	V _{CC} = MAX,	V ₁ = 7 V				0.1			0.1	mΑ
ΊΗ	V _{CC} = MAX,	V ₁ = 2.7 V				20			20	μΑ
IIL	V _{CC} = MAX,	V ₁ = 0.4 V				- 0.2			- 0.2	mA
I _{OS} §	V _{CC} = MAX			- 20		- 100	- 20		- 100	mA
¹cc	V _{CC} = MAX,	See note 2			3.8	7		3.8	7	mA

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

NOTE 2: I_{CC} is measured with all R inputs grounded, all S inputs at 4.5 V, and all outputs open.

switching characteristics, V_{CC} = 5 V, T_A = 25°C (see note 3)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	TEST COM	NDITIONS	MIN	TYP	MAX	UNIT
^t PLH	_	0				12	22	ns
^t PHL	3	· ·	$R_L = 2 k\Omega$,	C _L = 15 pF		13	21	113
tPHL	Ā	Q				15	27	ns

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



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

[§] Not more than one output should be shorted at a time, and the duration of the short-circuit should be less than one second.





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PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
76018012A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	76018012A SNJ54LS 279AFK	Samples
7601801EA	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	7601801EA SNJ54LS279AJ	Samples
7601801EA	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	7601801EA SNJ54LS279AJ	Samples
7601801FA	ACTIVE	CFP	W	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	7601801FA SNJ54LS279AW	Samples
7601801FA	ACTIVE	CFP	W	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	7601801FA SNJ54LS279AW	Samples
SN54279J	OBSOLETE	CDIP	J	16		TBD	Call TI	Call TI	-55 to 125		
SN54279J	OBSOLETE	CDIP	J	16		TBD	Call TI	Call TI	-55 to 125		
SN54LS279AJ	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	SN54LS279AJ	Samples
SN54LS279AJ	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	SN54LS279AJ	Samples
SN74279N	OBSOLETE	PDIP	N	16		TBD	Call TI	Call TI	0 to 70		
SN74279N	OBSOLETE	PDIP	N	16		TBD	Call TI	Call TI	0 to 70		
SN74279N3	OBSOLETE	PDIP	N	16		TBD	Call TI	Call TI	0 to 70		
SN74279N3	OBSOLETE	PDIP	N	16		TBD	Call TI	Call TI	0 to 70		
SN74LS279AD	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	LS279A	Samples
SN74LS279AD	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	LS279A	Samples
SN74LS279ADE4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	LS279A	Samples
SN74LS279ADE4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	LS279A	Samples
SN74LS279ADR	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	LS279A	Samples
SN74LS279ADR	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	LS279A	Samples



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Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish (6)	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
SN74LS279AN	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN74LS279AN	Sample
SN74LS279AN	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN74LS279AN	Sample
SN74LS279AN3	OBSOLETE	PDIP	N	16		TBD	Call TI	Call TI	0 to 70		
SN74LS279AN3	OBSOLETE	PDIP	N	16		TBD	Call TI	Call TI	0 to 70		
SN74LS279ANE4	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN74LS279AN	Sample
SN74LS279ANE4	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN74LS279AN	Sample
SN74LS279ANSR	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	74LS279A	Sample
SN74LS279ANSR	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	74LS279A	Sample
SNJ54279J	OBSOLETE	CDIP	J	16		TBD	Call TI	Call TI	-55 to 125		
SNJ54279J	OBSOLETE	CDIP	J	16		TBD	Call TI	Call TI	-55 to 125		
SNJ54279W	OBSOLETE	CFP	W	16		TBD	Call TI	Call TI	-55 to 125		
SNJ54279W	OBSOLETE	CFP	W	16		TBD	Call TI	Call TI	-55 to 125		
SNJ54LS279AFK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	76018012A SNJ54LS 279AFK	Sample
SNJ54LS279AFK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	76018012A SNJ54LS 279AFK	Sample
SNJ54LS279AJ	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	7601801EA SNJ54LS279AJ	Sampl
SNJ54LS279AJ	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	7601801EA SNJ54LS279AJ	Sampl
SNJ54LS279AW	ACTIVE	CFP	W	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	7601801FA SNJ54LS279AW	Sampl
SNJ54LS279AW	ACTIVE	CFP	W	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	7601801FA SNJ54LS279AW	Sampl

(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.

PACKAGE OPTION ADDENDUM



10-Jun-2014

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.
- (4) 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.
- (6) 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 SN54279, SN54LS279A, SN74279, SN74LS279A:

Catalog: SN74279, SN74LS279A

Military: SN54279, SN54LS279A

NOTE: Qualified Version Definitions:





10-Jun-2014

- Catalog TI's standard catalog product
- Military QML certified for Military and Defense Applications

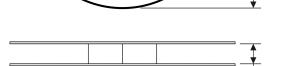
PACKAGE MATERIALS INFORMATION

www.ti.com 14-Jul-2012

TAPE AND REEL INFORMATION

REEL DIMENSIONS





TAPE DIMENSIONS



A0	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

TAPE AND REEL INFORMATION

*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
SN74LS279ADR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
SN74LS279ANSR	SO	NS	16	2000	330.0	16.4	8.2	10.5	2.5	12.0	16.0	Q1

PACKAGE MATERIALS INFORMATION

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*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LS279ADR	SOIC	D	16	2500	333.2	345.9	28.6
SN74LS279ANSR	SO	NS	16	2000	367.0	367.0	38.0

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 GDFP2-F16



FK (S-CQCC-N**)

LEADLESS CERAMIC CHIP CARRIER

28 TERMINAL SHOWN



- 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. 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-PDS0-G16)

PLASTIC SMALL OUTLINE



- 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 0.006 (0,15) each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0.017 (0,43) each 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.



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