- 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  $\Omega$  output will be set high. When  $\overline{R}$  is pulsed low, the  $\Omega$  output will be reset low. Normally, the  $\overline{S} \cdot \overline{R}$  inputs should not be taken low simultaneously. The  $\Omega$  output will be unpredictable in this condition.

FUNCTION TABLE (each latch)

INP	UTS	OUTPUT
St	R	a
н	Н	α <sub>0</sub>
L	Н	н
н	L	L
L	L	Н‡

H = high level

L = low level

†For latches with double S inputs:

 $\Omega_0$  = the level of  $\Omega$  before the indicated input conditions were established.

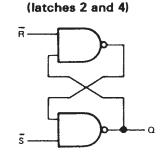
 $H = both \overline{S}$  inputs high

L = one or both \$ inputs low

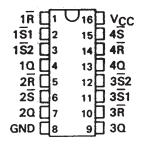
### logic diagram (positive logic)

# F C

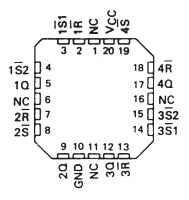
(latches 1 and 3)



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

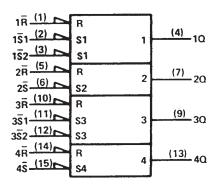


SN54LS279A . . . FK PACKAGE (TOP VIEW)



NC - No internal connection

### logic symbol§



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

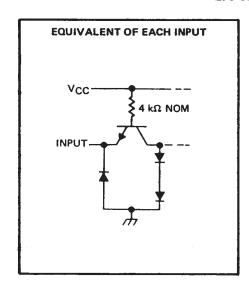
Pin numbers shown are for D, J, N, and W packages.

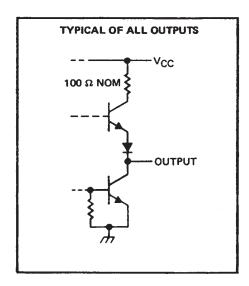
 $<sup>^{\</sup>ddagger}$  This configuration is nonstable: that is, it may not persist when the  $\overline{S}$  and  $\overline{R}$  inputs return to their inactive (high) level.

SDLS093 - DECEMBER 1983 - REVISED MARCH 1988

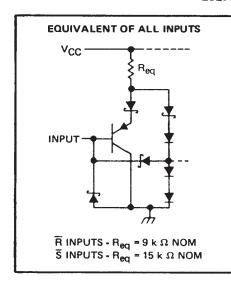
### schematics of inputs and outputs

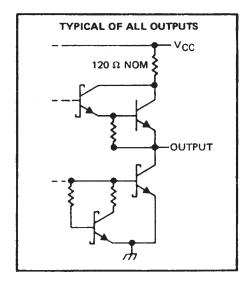
### '279 CIRCUITS





### **'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			UNIT		
		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		TEST CONDIT	noue†		SN5427	9		SN7427	9	
PANAME I EN		1E21 CONDIT	IUNS '	MIN	TYP‡	MAX	MIN	TYP‡	MAX	UNIT
VIK	VCC = MIN,	I <sub>I</sub> = - 12 mA				- 1.5			- 1.5	V
Voн	V <sub>CC</sub> = MIN,	V <sub>IL</sub> = 0.8 V,	1 <sub>OH</sub> = - 0.8 mA	2.4	3.4		2.4	3.4		V
VOL	V <sub>CC</sub> = MIN,	V <sub>1H</sub> = 2 V,	1 <sub>OL</sub> = 16 mA		0.2	0.4		0.2	0.4	V
11	V <sub>CC</sub> = MAX,	V <sub>I</sub> = 5.5 V				1			1	mA
Чн	V <sub>CC</sub> = MAX,	V <sub>1</sub> = 2.4 V				40		-	40	μА
IIL	V <sub>CC</sub> = MAX,	V <sub>1</sub> = 0.4 V				- 1.6			- 1.6	mA
IOS\$	V <sub>CC</sub> = MAX			- 18		- 55	- 18		- 57	mA
1cc	V <sub>CC</sub> = MAX,	See Note 2			18	30		18	30	mA

<sup>†</sup> 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
<sup>t</sup> PLH	<u>-</u>					12	22	ns
<sup>t</sup> PHL	3		$R_L = 400 \Omega$ ,	C <sub>1</sub> = 15 pF		9	15	113
<sup>t</sup> PHL	Ř	Q				15	27	ns

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

<sup>\$</sup> 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

SDLS093 - DECEMBER 1983 - REVISED MARCH 1988

### recommended operating conditions

		sı	SN54LS279A		SA	174LS27	79A	UNIT
		MIN	NOM	MAX	MIN	NOM	MAX	UNII
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 <sub>W</sub>	Pulse duration, low	20			20			ns
TA	Operating free-air temperature	<b>– 55</b>		125	0		70	°C

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

DADAMETED		TEST CONDIT	rougt	Si	154LS27	79A	SN	174LS27	79A	UNIT
PARAMETER		1521 CONDIT	IUNS	MIN	TYP#	MAX	MIN	TYP‡	MAX	UNIT
VIK	V <sub>CC</sub> = MIN,	I <sub>I</sub> = - 18 mA				1.5			- 1.5	V
Voн	V <sub>CC</sub> = MIN,	VIL = MAX,	I <sub>OH</sub> = 0.4 mA	2.5	3.4		2.7	3.4	-	V
V	V <sub>CC</sub> = MIN,	V <sub>IH</sub> = 2 V,	IOL = 4 mA		0.25	0.4		0.25	0.4	V
VOL	V <sub>CC</sub> = MIN,	V <sub>1H</sub> = 2 V,	IOL = 8 mA					0.25	0.5	v
11	V <sub>CC</sub> = MAX,	V <sub>1</sub> = 7 V				0.1			0.1	mA
Чн	V <sub>CC</sub> = MAX,	V <sub>1</sub> = 2.7 V				20			20	μΑ
I <sub>Ι</sub> Γ	V <sub>CC</sub> = MAX,	V <sub>1</sub> = 0.4 V				- 0.2			- 0.2	mA
IOS §	V <sub>CC</sub> = MAX			- 20		- 100	- 20		- 100	mA
¹cc	V <sub>CC</sub> = MAX,	See note 2			3.8	7		3.8	7	mA

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

NOTE 2: I<sub>CC</sub> is measured with all R inputs grounded, all S inputs at 4.5 V, and all outputs open.

### switching characteristics, V<sub>CC</sub> = 5 V, T<sub>A</sub> = 25°C (see note 3)

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

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



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

<sup>§</sup> Not more than one output should be shorted at a time, and the duration of the short-circuit should be less than one second.



### **PACKAGING INFORMATION**

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan <sup>(2)</sup>	Lead/ Ball Finish	MSL Pe
76018012A	ACTIVE	LCCC	FK	20	1	TBD	Call TI	Call TI
7601801EA	ACTIVE	CDIP	J	16	1	TBD	Call TI	Call TI
7601801EA	ACTIVE	CDIP	J	16	1	TBD	Call TI	Call TI
7601801FA	ACTIVE	CFP	W	16	1	TBD	Call TI	Call TI
7601801FA	ACTIVE	CFP	W	16	1	TBD	Call TI	Call TI
SN54279J	OBSOLETE	CDIP	J	16		TBD	Call TI	Call TI
SN54279J	OBSOLETE	CDIP	J	16		TBD	Call TI	Call TI
SN54LS279AJ	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pkg
SN54LS279AJ	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pkg
SN74279N	OBSOLETE	PDIP	N	16		TBD	Call TI	Call TI
SN74279N	OBSOLETE	PDIP	N	16		TBD	Call TI	Call TI
SN74279N3	OBSOLETE	PDIP	N	16		TBD	Call TI	Call TI
SN74279N3	OBSOLETE	PDIP	N	16		TBD	Call TI	Call TI
SN74LS279AD	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
SN74LS279AD	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
SN74LS279ADE4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
SN74LS279ADE4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
SN74LS279ADG4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
SN74LS279ADG4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
SN74LS279ADR	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
SN74LS279ADR	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
SN74LS279ADRE4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260



Orderable Device	Status <sup>(1)</sup>	Package Type	Package Drawing	Pins	Package Qty	Eco Plan <sup>(2)</sup>	Lead/ Ball Finish	MSL Pe
SN74LS279ADRE4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
SN74LS279ADRG4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
SN74LS279ADRG4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
SN74LS279AN	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pk
SN74LS279AN	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pk
SN74LS279AN3	OBSOLETE	PDIP	N	16		TBD	Call TI	Call TI
SN74LS279AN3	OBSOLETE	PDIP	N	16		TBD	Call TI	Call TI
SN74LS279ANE4	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pk
SN74LS279ANE4	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pk
SN74LS279ANSR	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
SN74LS279ANSR	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
SN74LS279ANSRE4	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
SN74LS279ANSRE4	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
SN74LS279ANSRG4	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
SN74LS279ANSRG4	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
SNJ54279J	OBSOLETE	CDIP	J	16		TBD	Call TI	Call TI
SNJ54279J	OBSOLETE	CDIP	J	16		TBD	Call TI	Call TI
SNJ54279W	OBSOLETE	CFP	W	16		TBD	Call TI	Call TI
SNJ54279W	OBSOLETE	CFP	W	16		TBD	Call TI	Call TI
SNJ54LS279AFK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N/A for Pk
SNJ54LS279AFK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N/A for Pk
SNJ54LS279AJ	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pk
SNJ54LS279AJ	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pk
SNJ54LS279AW	ACTIVE	CFP	W	16	1	TBD	A42	N / A for Pk



Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan <sup>(2)</sup>	Lead/ Ball Finish	MSL Pea
SNJ54LS279AW	ACTIVE	CFP	W	16	1	TBD	A42	N / A for Pkg

<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

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.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 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 **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, 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 retard 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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### OTHER QUALIFIED VERSIONS OF SN54279, SN54LS279A, SN74279, SN74LS279A:

Military: SN54279, SN54LS279A

NOTE: Qualified Version Definitions:

• Catalog - TI's standard catalog product



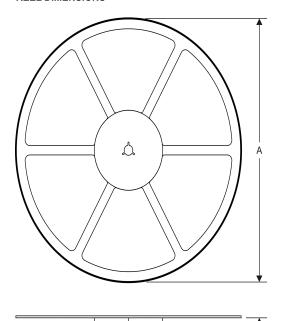
• Military - QML certified for Military and Defense Applications

## PACKAGE MATERIALS INFORMATION

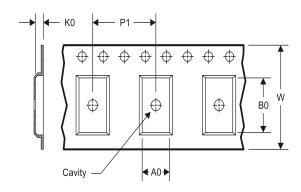
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### TAPE AND REEL INFORMATION

### **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

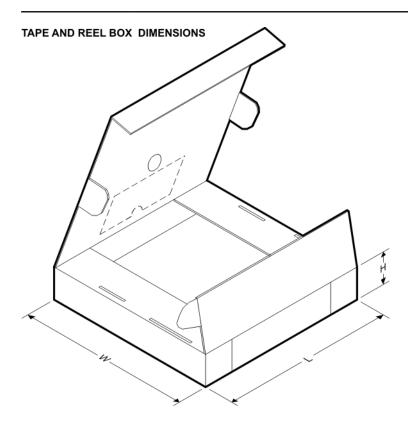
### TAPE AND REEL INFORMATION

### \*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

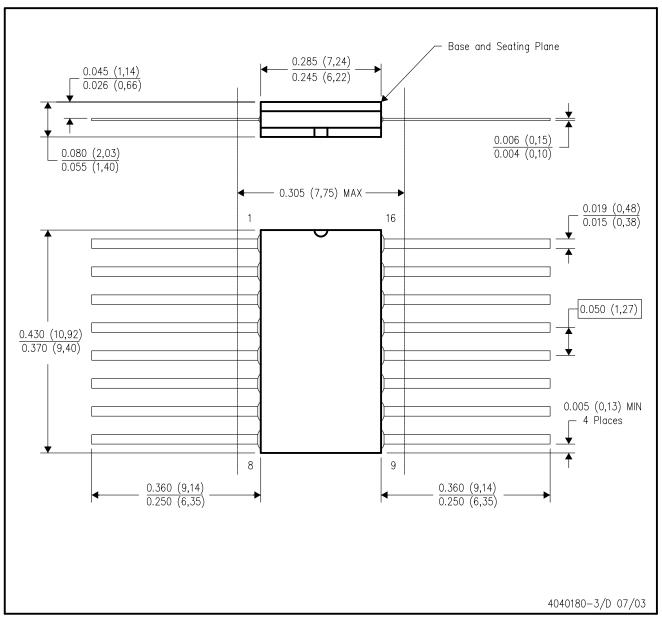
### 14 LEADS SHOWN



- 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



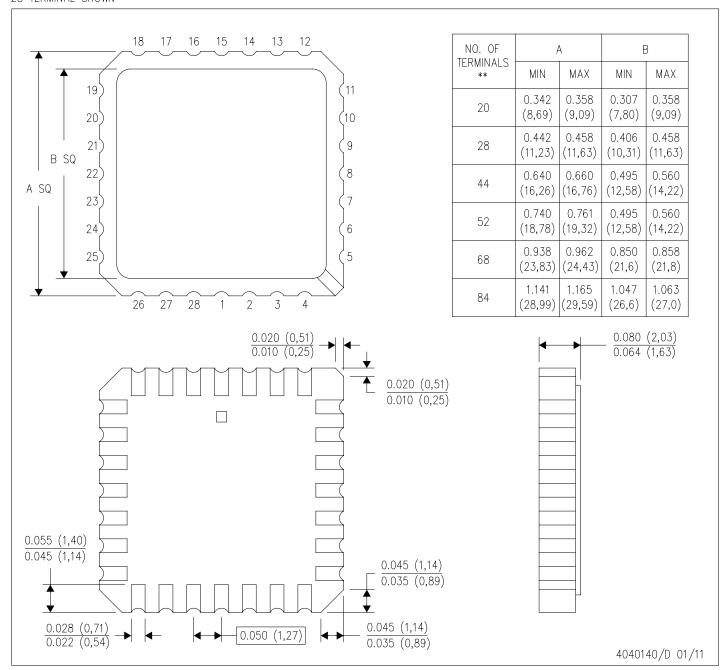
- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only.
- E. Falls within MIL STD 1835 GDFP1-F16 and JEDEC MO-092AC



# FK (S-CQCC-N\*\*)

### LEADLESS CERAMIC CHIP CARRIER

28 TERMINAL SHOWN



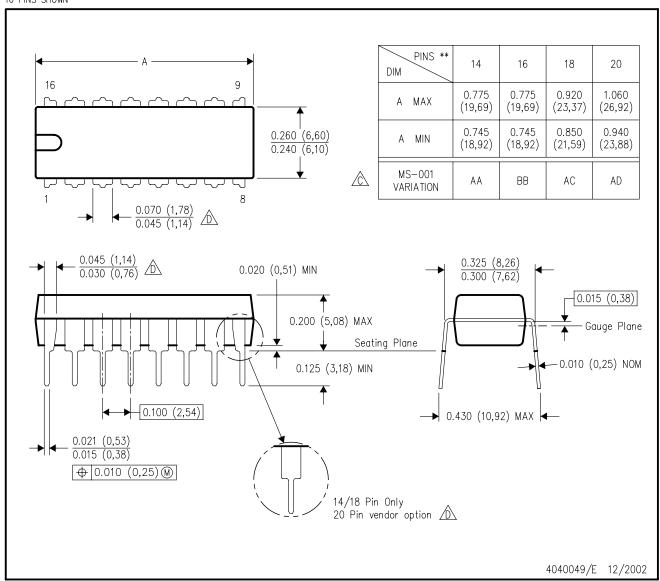
- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a metal lid.
- D. Falls within JEDEC MS-004



# 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



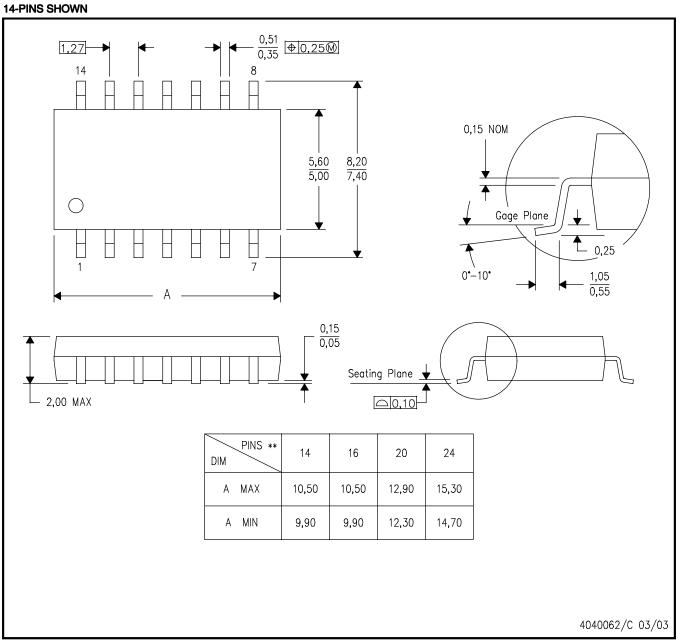
- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.006 (0,15) each side.
- Body width does not include interlead 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\*\*)

### PLASTIC SMALL-OUTLINE PACKAGE



- 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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