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CMOS BCD Rate Multiplier

High-Voltage Types (20-Volt Rating)

■ CD4527B is a low-power 4-bit digital rate multiplier that provides an output-pulse rate which is the clock-input-pulse rate multiplied by 1/10 times the BCD input. For example, when the BCD input is 8, there will be 8 output pulses for every 10 input pulses. This device may be used to perform arithmetic operations (add, subtract, divide, raise to a power), solve algebraic and differential equations, generate natural logarithms and trigonometric functions, A/D and D/A conversion, and frequency division.

For fractional multipliers with more than one digit, CD4527B devices may be cascaded in two different modes: the Add mode and the Multiply mode. (See Figs.12 and 15). In the Add mode,

$$\text{Output Rate} = (\text{Clock Rate}) \left[0.1 \text{BCD}_1 + 0.01 \text{BCD}_2 + 0.001 \text{BCD}_3 + \dots \right]$$

In the Multiply mode, the fraction programmed into the first rate multiplier is multiplied by the fraction programmed into the second one,

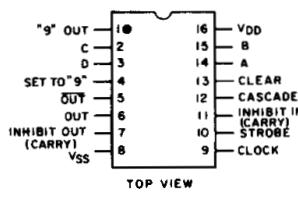
$$\text{e.g. } \frac{9}{10} \times \frac{4}{10} = \frac{36}{100} \text{ or 36 output}$$

pulses for every 100 clock input pulses.

The CD4527B types are supplied in 16-lead dual-in-line plastic packages (E suffix), 16-lead small-outline packages (NSR suffix), and 16-lead thin shrink small-outline packages (PW and PWR suffixes).

Applications:

- Numerical control
- Instrumentation
- Digital filtering
- Frequency synthesis



TERMINAL ASSIGNMENT

Features:

- Cascadable in multiples of 4-bits
- Set to "9" input and "9" detect output
- 100% test for quiescent current at 20 V
- 5-V, 10-V, and 15-V parametric ratings
- Standardized, symmetrical output characteristics
- Maximum input current of 1 μ A at 18 V over full package-temperature range; 100 nA at 18 V and 25°C
- Noise margin (full package-temperature range) =
 1 V at $V_{DD} = 5$ V
 2 V at $V_{DD} = 10$ V
 2.5 V at $V_{DD} = 15$ V
- Meets all requirements of JEDEC Tentative Standard No. 13B, 'Standard Specifications for Description of 'B' Series CMOS Devices'

MAXIMUM RATINGS, Absolute-Maximum Values:

DC SUPPLY-VOLTAGE RANGE, (V_{DD})

Voltages referenced to V_{SS} Terminal -0.5V to +20V

INPUT VOLTAGE RANGE, ALL INPUTS -0.5V to $V_{DD} + 0.5$ V

DC INPUT CURRENT, ANY ONE INPUT ± 10 mA

POWER DISSIPATION PER PACKAGE (P_D):

For $T_A = -55^\circ\text{C}$ to $+100^\circ\text{C}$ 500mW

For $T_A = +100^\circ\text{C}$ to $+125^\circ\text{C}$ Derate Linearity at 12mW/ $^\circ\text{C}$ to 200mW

DEVICE DISSIPATION PER OUTPUT TRANSISTOR

FOR $T_A =$ FULL PACKAGE-TEMPERATURE RANGE (All Package Types) 100mW

OPERATING-TEMPERATURE RANGE (T_A) -55°C to $+125^\circ\text{C}$

STORAGE TEMPERATURE RANGE (T_{STG}) -65°C to $+150^\circ\text{C}$

LEAD TEMPERATURE (DURING SOLDERING):

At distance $1/16 \pm 1/32$ inch (1.59 \pm 0.79mm) from case for 10s max $+265^\circ\text{C}$

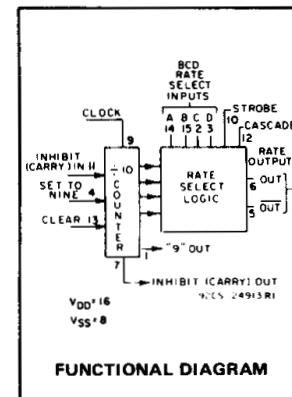
RECOMMENDED OPERATING CONDITIONS AT $T_A = 25^\circ\text{C}$, Except as Noted.

For maximum reliability, nominal operating conditions should be selected so that operation is always within the following ranges:

CHARACTERISTIC	V_{DD} (V)	LIMITS		UNITS
		Min.	Max.	
Supply Voltage Range (For $T_A =$ Full Package- Temperature Range)		3	18	V
Set or Clear Pulse Width, t_W	5	160	—	ns
	10	90	—	
	15	60	—	
Clock Pulse Width, t_W	5	330	—	ns
	10	170	—	
	15	100	—	
Clock Frequency, f_{CL}	5	—	1.2	MHz
	10	dc	2.5	
	15	—	3.5	
Clock Rise or Fall Time, t_{rCL} or t_{fCL}	5, 10, 15	—	15	μ s
Inhibit In Setup Time, t_{SU}	5	100	—	ns
	10	40	—	
	15	20	—	
Inhibit In Removal Time, t_{REM}	5	240	—	ns
	10	130	—	
	15	110	—	
Set Removal Time, t_{REM}	5	150	—	ns
	10	80	—	
	15	50	—	
Clear Removal Time, t_{REM}	5	60	—	ns
	10	40	—	
	15	30	—	

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CD4527B Types



FUNCTIONAL DIAGRAM

CD4527B Types

STATIC ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	CONDITIONS			LIMITS AT INDICATED TEMPERATURES (°C)							UNITS	
				-55			-40			+85		
	Min.	Typ.	Max.	+25			+125			+25		
Quiescent Device Current, I_{DD} Max.	-	0,5	5	5	5	150	150	-	0,04	5	μA	
	-	0,10	10	10	10	300	300	-	0,04	10		
	-	0,15	15	20	20	600	600	-	0,04	20		
	-	0,20	20	100	100	3000	3000	-	0,08	100		
Output Low (Sink) Current, I_{OL} Min.	0,4	0,5	5	0,64	0,61	0,42	0,36	0,51	1	-	mA	
	0,5	0,10	10	1,6	1,5	1,1	0,9	1,3	2,6	-		
	1,5	0,15	15	4,2	4	2,8	2,4	3,4	6,8	-		
Output High (Source) Current, I_{OH} Min.	4,6	0,5	5	-0,64	-0,61	-0,42	-0,36	-0,51	-1	-	mA	
	2,5	0,5	5	-2	-1,8	-1,3	-1,15	-1,6	-3,2	-		
	9,5	0,10	10	-1,6	-1,5	-1,1	-0,9	-1,3	-2,6	-		
	13,5	0,15	15	-4,2	-4	-2,8	-2,4	-3,4	-6,8	-		
Output Voltage: Low-Level, V_{OL} Max.	-	0,5	5	0,05			-	0	0,05	V		
	-	0,10	10	0,05			-	0	0,05			
	-	0,15	15	0,05			-	0	0,05			
Output Voltage: High-Level, V_{OH} Min.	-	0,5	5	4,95			4,95	5	-	V		
	-	0,10	10	9,95			9,95	10	-			
	-	0,15	15	14,95			14,95	15	-			
Input Low Voltage, V_{IL} Max.	0,5, 4,5	-	5	1,5			-	-	1,5	V		
	1,9	-	10	3			-	-	3			
	1,5, 13,5	-	15	4			-	-	4			
Input High Voltage, V_{IH} Min.	0,5, 4,5	-	5	3,5			3,5	-	-	V		
	1,9	-	10	7			7	-	-			
	1,5, 13,5	-	15	11			11	-	-			
Input Current I_{IN} Max.		0,18	18	$\pm 0,1$	$\pm 0,1$	± 1	± 1	-	$\pm 10^{-5}$	$\pm 0,1$	μA	

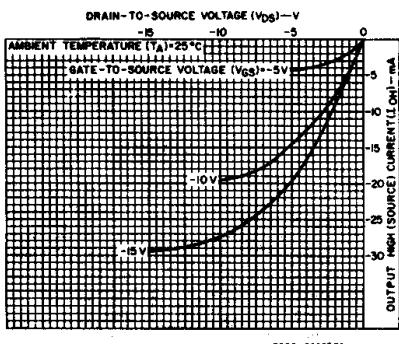


Fig.3 – Typical output high (source) current characteristics.

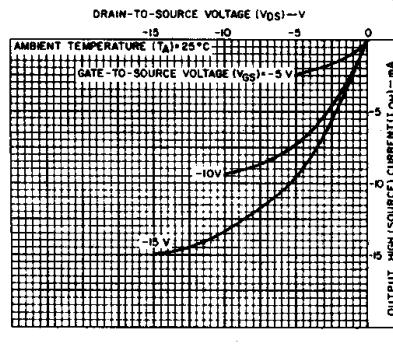


Fig.4 – Minimum output high (source) current characteristics.

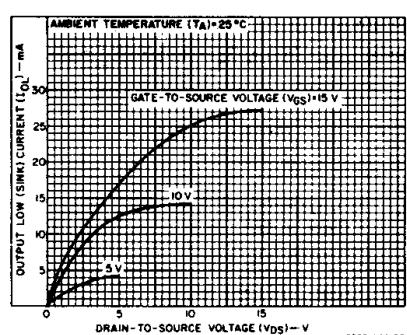


Fig.1 – Typical output low (sink) current characteristics.

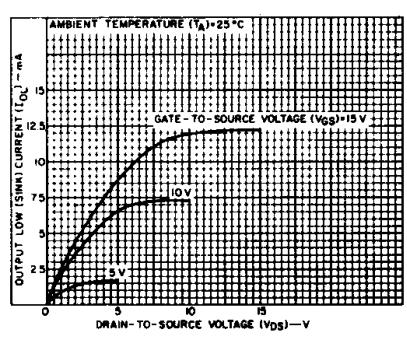


Fig.2 – Minimum output low (sink) current characteristics.

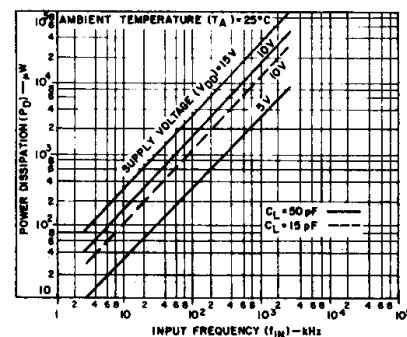


Fig.5 – Typical dynamic power dissipation as a function of input frequency.

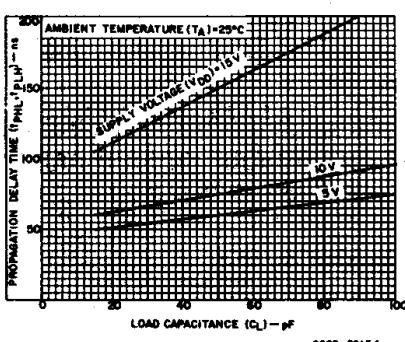


Fig.6 – Typical propagation delay time as a function of load capacitance (Clock or Strobe to Out).

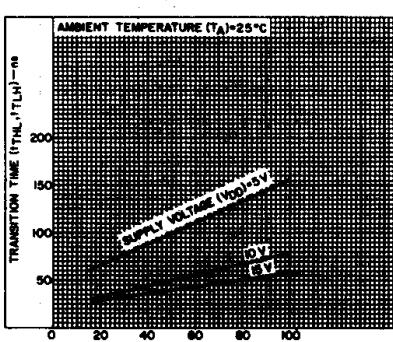


Fig.7 – Typical transition time as a function of load capacitance.

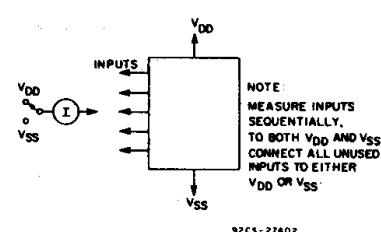


Fig.8 – Input current test circuit.

CD4527B Types

DYNAMIC ELECTRICAL CHARACTERISTICS at $T_A = 25^\circ\text{C}$:

Input $t_r, t_f = 20 \text{ ns}$, $C_L = 50 \text{ pF}$, $R_L = 200 \text{ k}\Omega$

CHARACTERISTIC	TEST CONDITIONS	LIMITS			UNITS	
		V _{DD} (V)	Min.	Typ.	Max.	
Propagation Delay Time, t_{PHL}, t_{PLH} Clock to Out	5	—	110	220		ns
	10	—	55	110		
	15	—	45	90		
Clock or Strobe to Out	5	—	150	300		ns
	10	—	75	150		
	15	—	60	120		
Clock to Inhibit Out High Level to Low Level	5	—	320	640		ns
	10	—	145	290		
	15	—	100	200		
Low Level to High Level	5	—	250	500		ns
	10	—	100	200		
	15	—	75	150		
Clear to Out	5	—	380	760		ns
	10	—	175	350		
	15	—	130	260		
Clock to "9" or "15" Out	5	—	300	600		ns
	10	—	125	250		
	15	—	90	180		
Cascade to Out	5	—	90	180		ns
	10	—	45	90		
	15	—	35	70		
Inhibit In to Inhibit Out	5	—	130	260		ns
	10	—	60	120		
	15	—	45	90		
Set to Out	5	—	330	660		ns
	10	—	150	300		
	15	—	110	220		
Transition Time, t_{THL}, t_{TLH}	5	—	100	200		ns
	10	—	50	100		
	15	—	40	80		
Maximum Clock Frequency, f_{CL}	5	1.2	2.4	—		MHz
	10	2.5	5	—		
	15	3.5	7	—		
Minimum Clock Pulse Width, t_W	5	—	165	330		ns
	10	—	85	170		
	15	—	50	100		
Clock Rise or Fall Time, t_{rCL}, t_{fCL}	5	—	—	15		μs
	10	—	—	15		
	15	—	—	15		
Minimum Set or Clear Pulse Width, t_W	5	—	80	160		ns
	10	—	45	90		
	15	—	30	60		
Minimum Inhibit In Setup Time, t_{SI}	5	—	50	100		ns
	10	—	20	40		
	15	—	10	20		
Minimum Inhibit In Removal Time, t_{REMI}	5	—	120	240		ns
	10	—	65	130		
	15	—	55	110		
Minimum Set Removal Time, t_{REM}	5	—	76	150		ns
	10	—	40	80		
	15	—	25	50		
Minimum Clear Removal Time, T_{REM}	5	—	30	60		ns
	10	—	20	40		
	15	—	15	30		
Input Capacitance, C_{IN}	Any Input	—	5	7.5	pF	

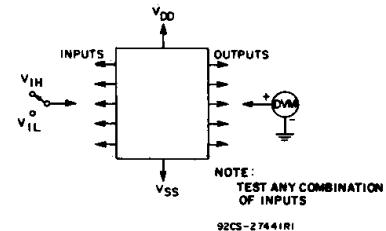


Fig. 9 — Input voltage test circuit.

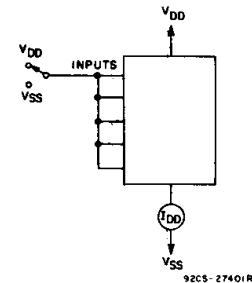


Fig. 10 — Quiescent device current test circuit.

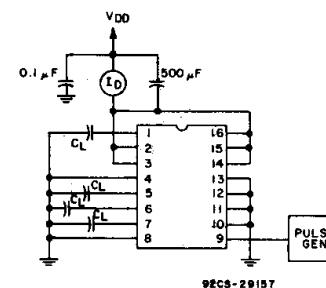


Fig. 11 — Dynamic power dissipation test circuit.

APPLICATIONS

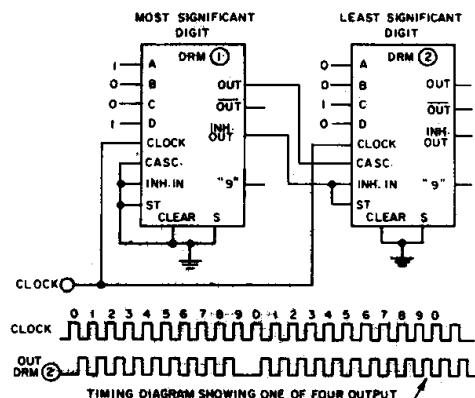
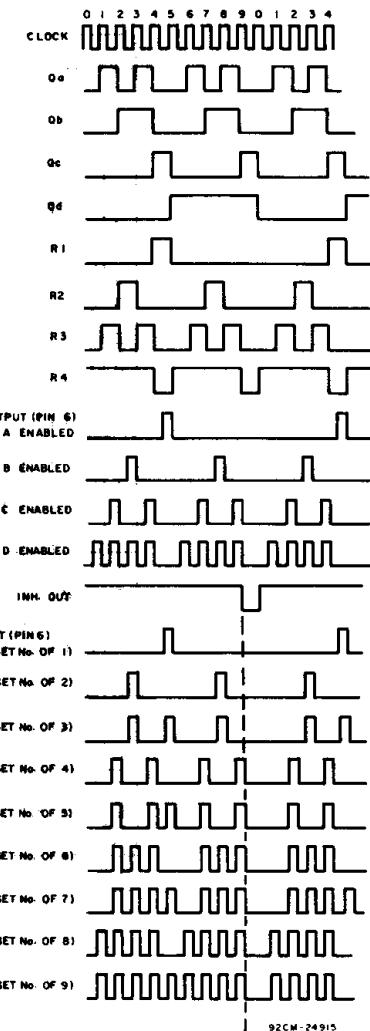
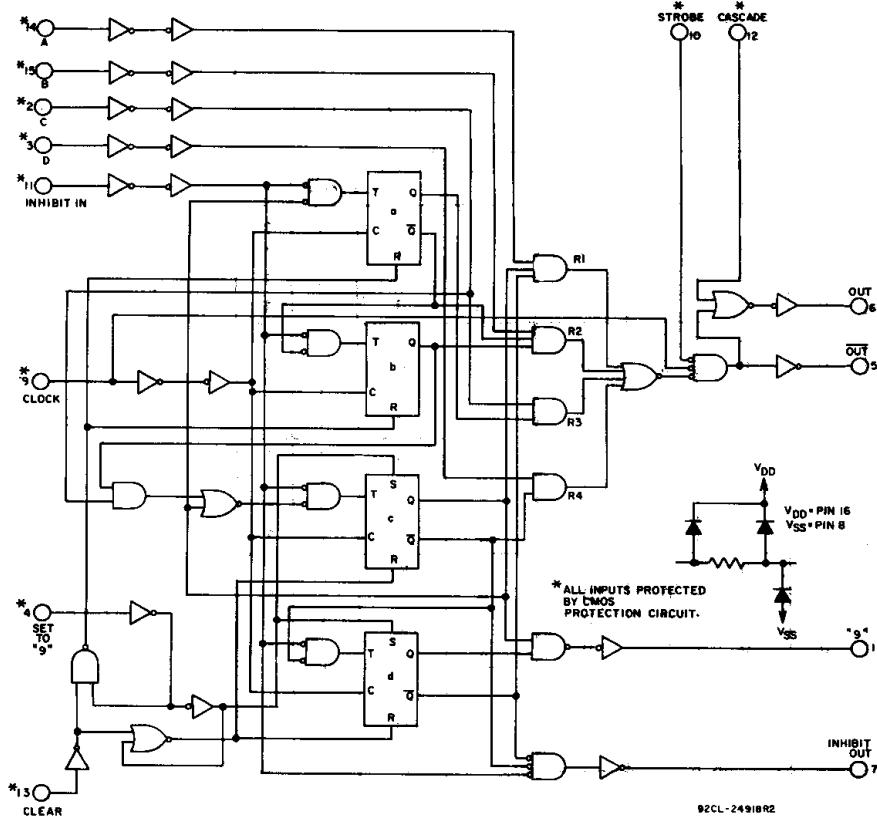


Fig. 12 — Two CD4527B's cascaded in the "Add" mode with a preset number

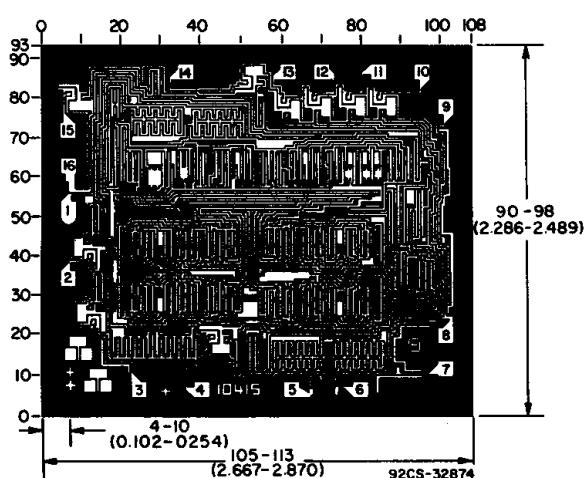
$$\text{of } 94 \left(\frac{9}{10} + \frac{4}{100} = \frac{94}{100} \right).$$

CD4527B Types

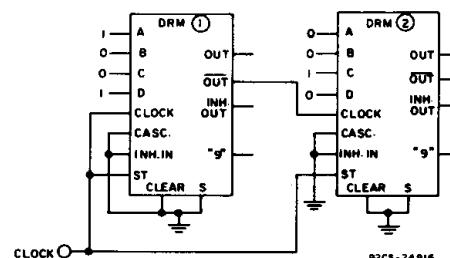


3

COMMERCIAL CMOS
HIGH VOLTAGE ICs



Dimensions in parentheses are in millimeters and are derived from the basic inch dimensions as indicated. Grid graduations are in mils (10^{-3} inch).



CD4527B Types

TRUTH TABLE

INPUTS									OUTPUTS				
Number of Pulses or Input Logic Level (0 = Low; 1 = High; X = Don't Care)									Number of Pulses or Output Logic Level (L = Low; H = High)				
D	C	B	A	CLK	INH IN	STR	CAS	CLR #	SET #	OUT	OUT	INH OUT	"9" OUT
0	0	0	0	10	0	0	0	0	0	L	H	1	1
0	0	0	1	10	0	0	0	0	0	1	1	1	1
0	0	1	0	10	0	0	0	0	0	2	2	1	1
0	0	1	1	10	0	0	0	0	0	3	3	1	1
0	1	0	0	10	0	0	0	0	0	4	4	1	1
0	1	0	1	10	0	0	0	0	0	5	5	1	1
0	1	1	0	10	0	0	0	0	0	6	6	1	1
0	1	1	1	10	0	0	0	0	0	7	7	1	1
1	0	0	0	10	0	0	0	0	0	8	8	1	1
1	0	0	1	10	0	0	0	0	0	9	9	1	1
1	0	1	0	10	0	0	0	0	0	8	8	1	1
1	0	1	1	10	0	0	0	0	0	9	9	1	1
1	1	0	0	10	0	0	0	0	0	8	8	1	1
1	1	0	1	10	0	0	0	0	0	9	9	1	1
1	1	1	0	10	0	0	0	0	0	8	8	1	1
1	1	1	1	10	0	0	0	0	0	9	9	1	1
X	X	X	X	10	1	0	0	0	0	†	†	H	†
X	X	X	X	10	0	1	0	0	0	L	H	1	1
X	X	X	X	10	0	0	1	0	0	H	*	1	1
1	X	X	X	10	0	0	0	1	0	10	10	H	L
0	X	X	X	10	0	0	0	1	0	L	H	H	L
X	X	X	X	10	0	0	0	0	1	L	H	L	H

* Output same as the first 16 lines of this truth table (depending on values of A, B, C, D).

† Depends on internal state of counter.

#Clear and Set Inputs should not be high at the same time; device draws increased quiescent current when in this non-valid state.

PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead/Ball Finish (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
CD4527BE	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-55 to 125	CD4527BE	Samples
CD4527BEE4	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-55 to 125	CD4527BE	Samples
CD4527BNSR	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	CD4527B	Samples
CD4527BNSRG4	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	CD4527B	Samples
CD4527BPW	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	CM527B	Samples
CD4527BPWR	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	CM527B	Samples

(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.

(4) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.

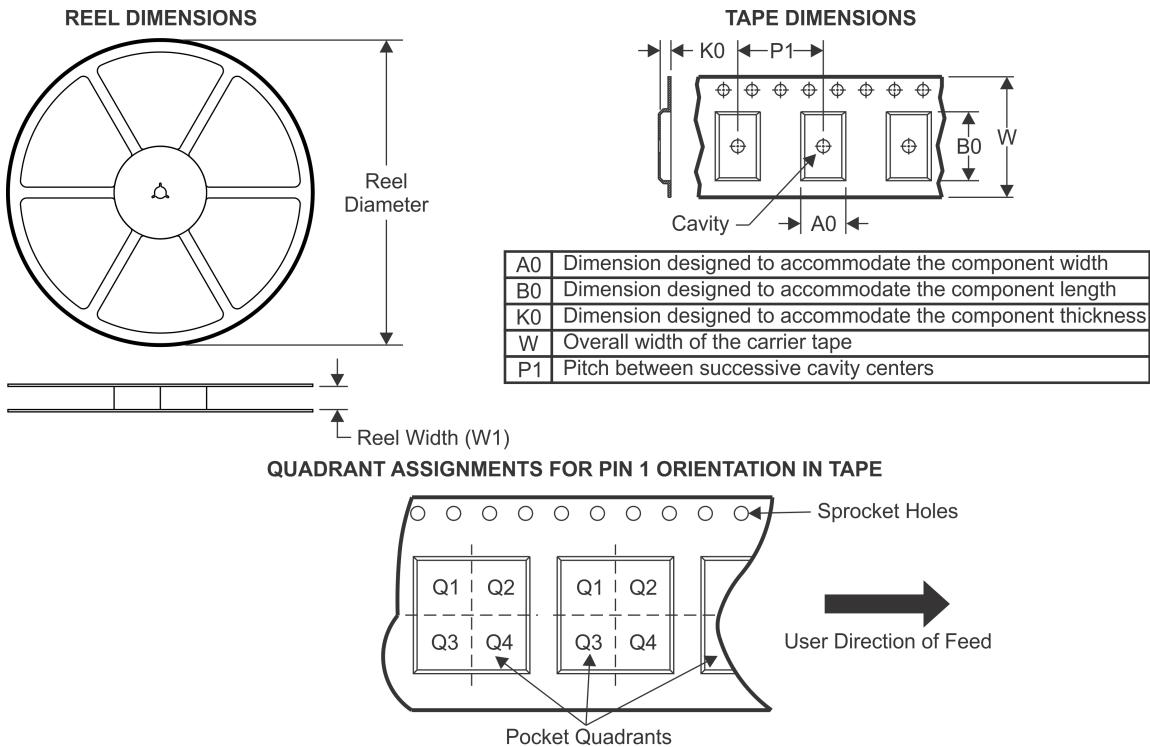
(5) Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "-" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.

⁽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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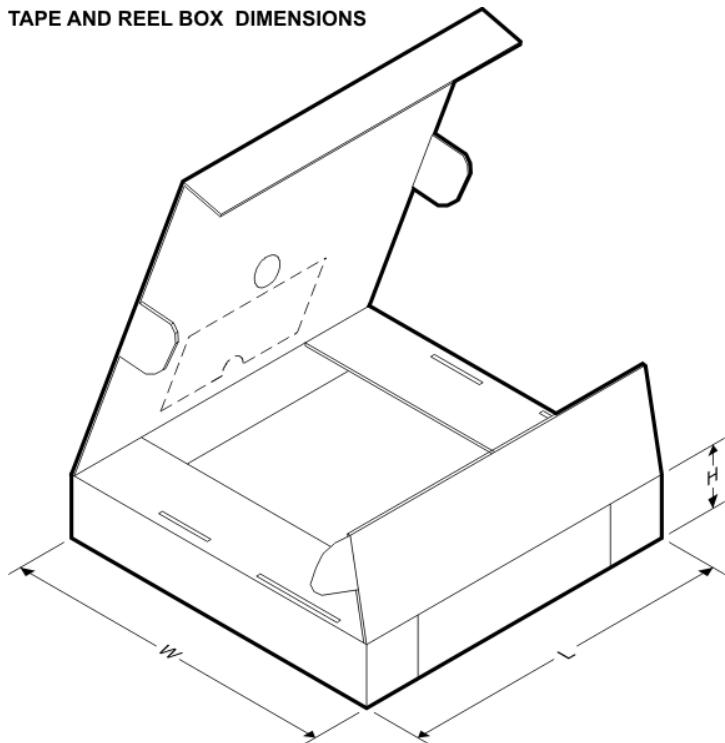
TAPE AND REEL INFORMATION



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
CD4527BNSR	SO	NS	16	2000	330.0	16.4	8.2	10.5	2.5	12.0	16.0	Q1
CD4527BPWR	TSSOP	PW	16	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1

TAPE AND REEL BOX DIMENSIONS



*All dimensions are nominal

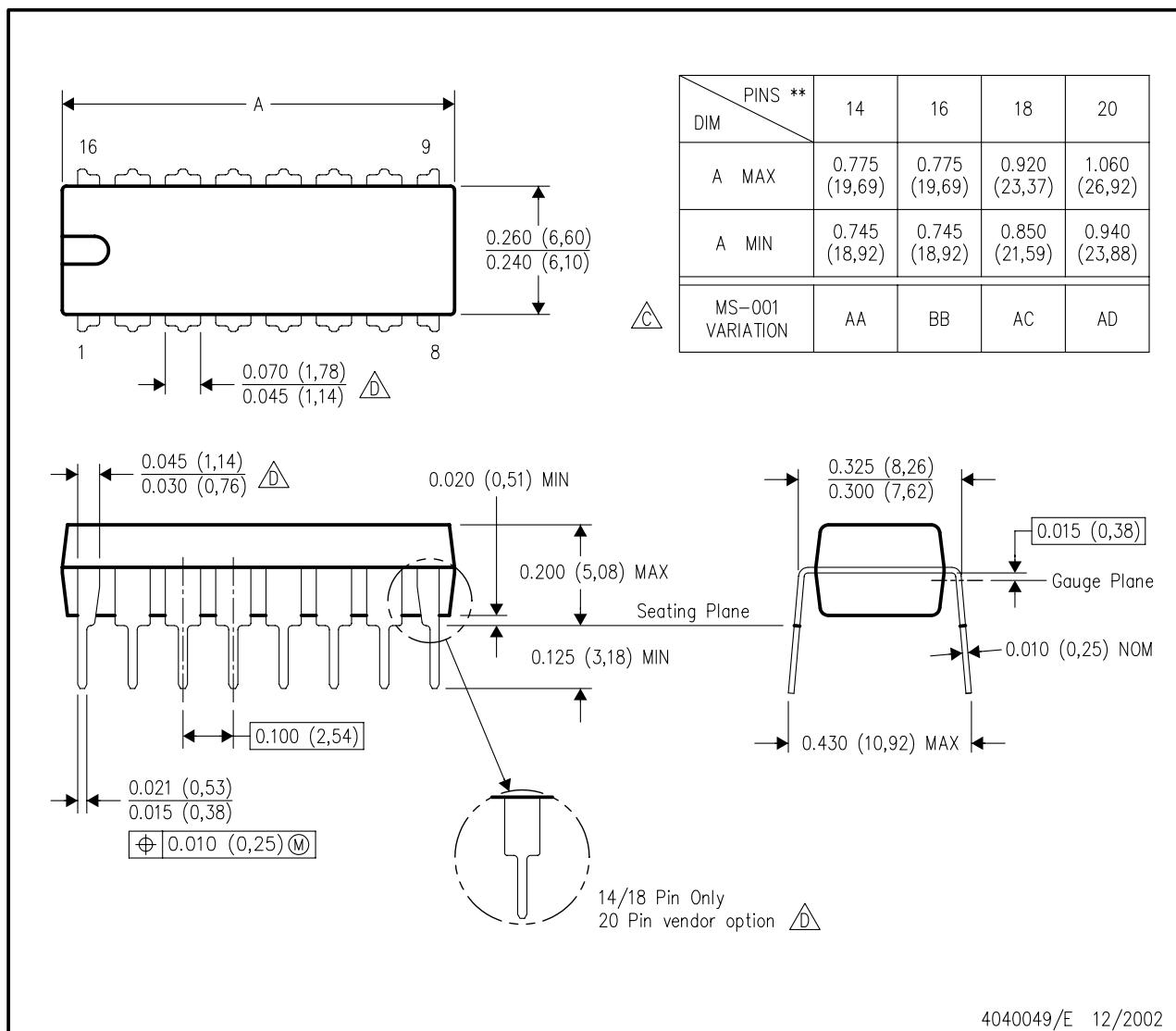
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
CD4527BNSR	SO	NS	16	2000	367.0	367.0	38.0
CD4527BPWR	TSSOP	PW	16	2000	367.0	367.0	35.0

MECHANICAL DATA

N (R-PDIP-T**)

16 PINS SHOWN

PLASTIC DUAL-IN-LINE PACKAGE



NOTES: A. All linear dimensions are in inches (millimeters).
B. This drawing is subject to change without notice.

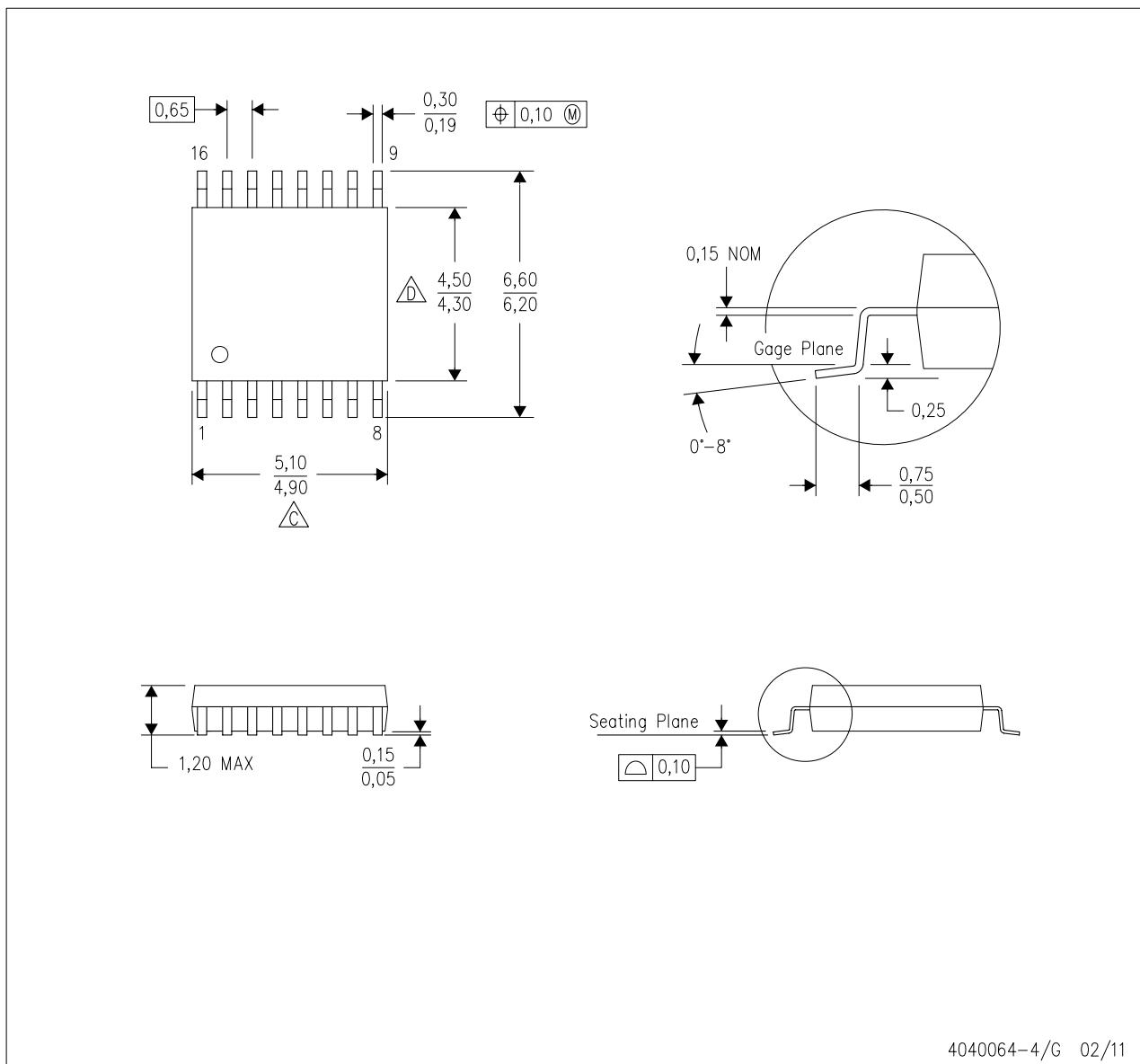
Symbol A: Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).

Symbol D: The 20 pin end lead shoulder width is a vendor option, either half or full width.

MECHANICAL DATA

PW (R-PDSO-G16)

PLASTIC SMALL OUTLINE



4040064-4/G 02/11

NOTES: A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994.

B. This drawing is subject to change without notice.

C. Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.15 each side.

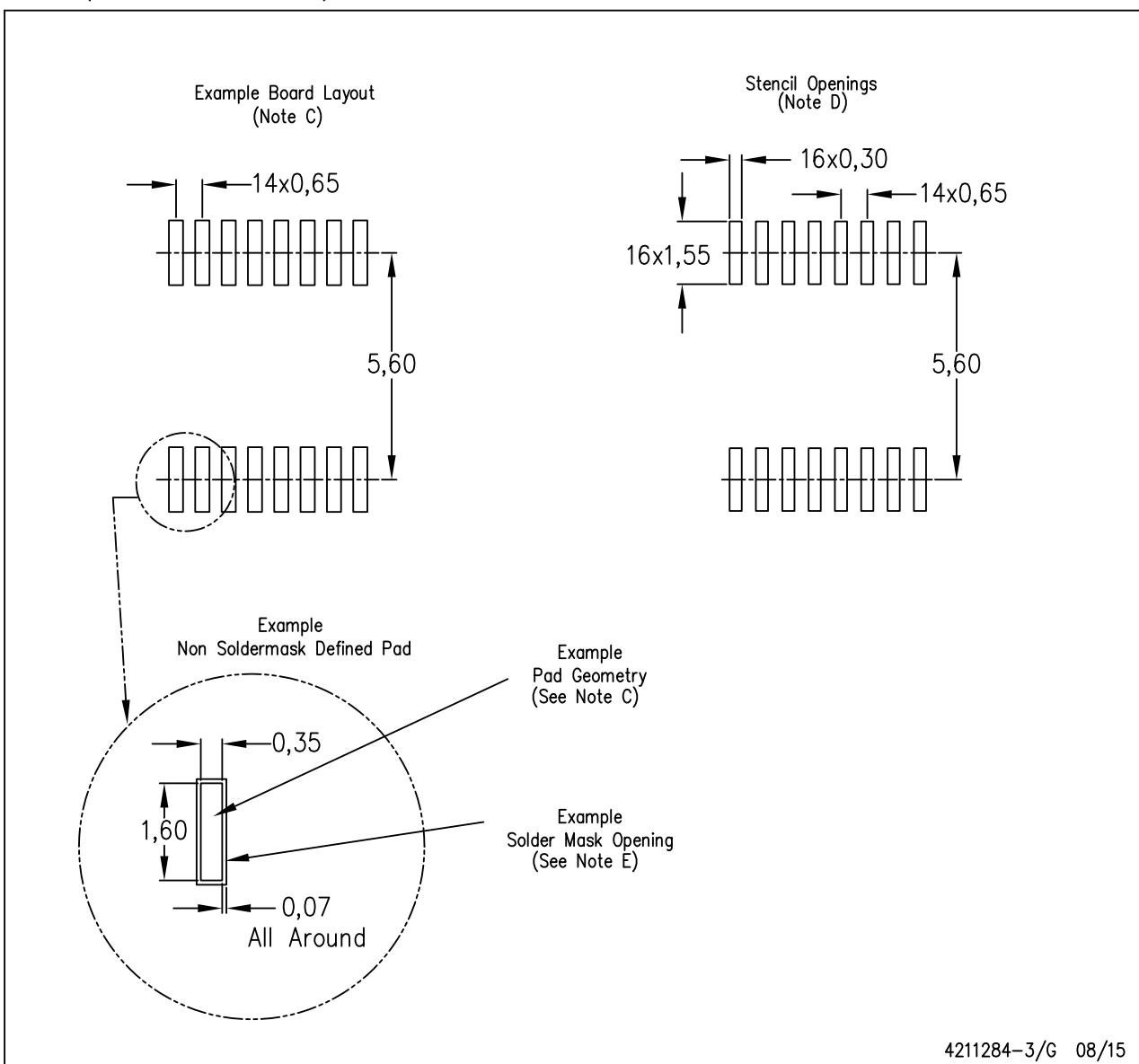
D. Body width does not include interlead flash. Interlead flash shall not exceed 0.25 each side.

E. Falls within JEDEC MO-153

LAND PATTERN DATA

PW (R-PDSO-G16)

PLASTIC SMALL OUTLINE



4211284-3/G 08/15

NOTES:

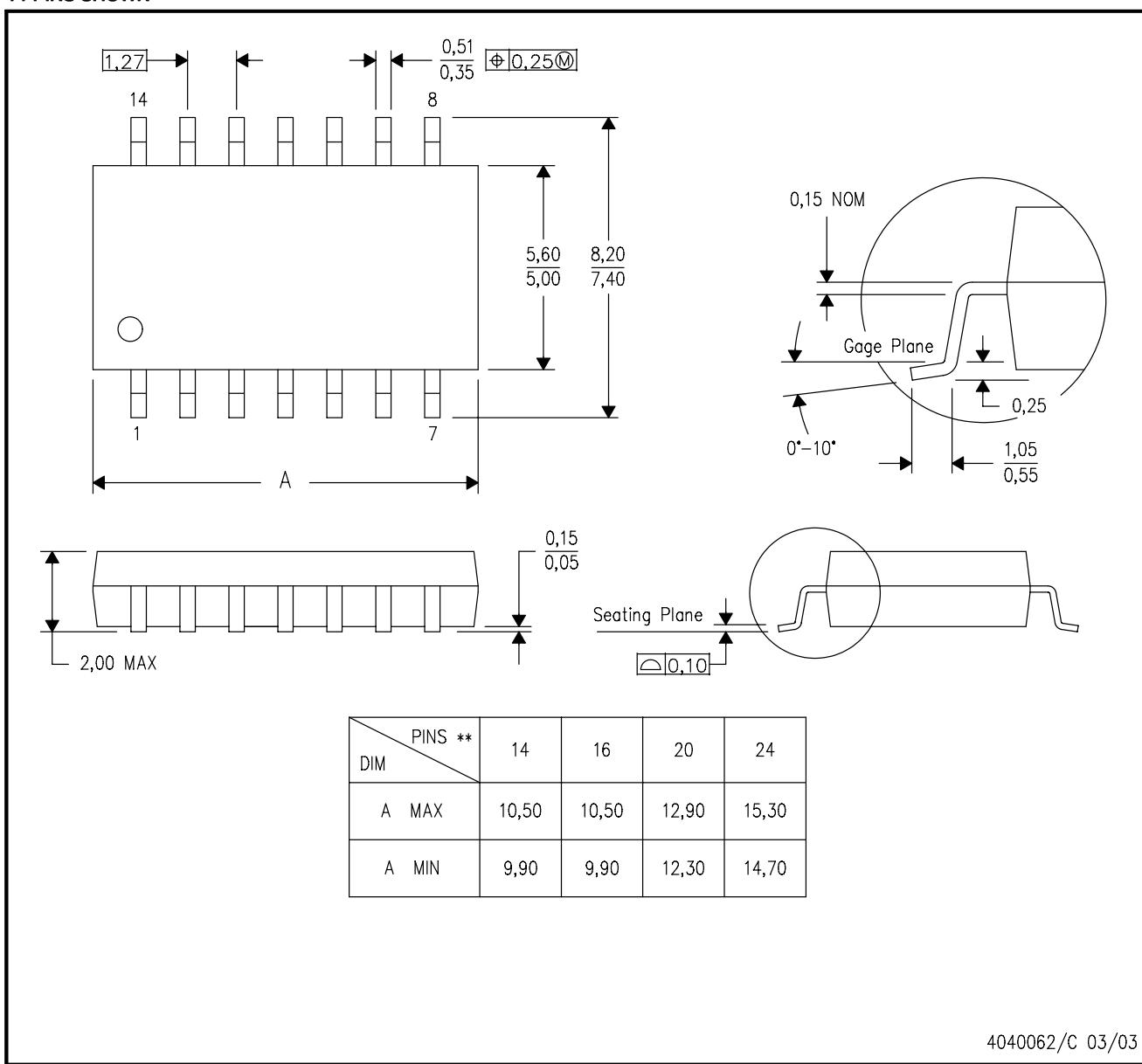
- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 is recommended for alternate designs.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
- 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



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.

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