

CDx4HC(T)259 ハイスピード SMOS ロジック 8 ビット・アドレス指定可能ラッチ

1 特長

- バッファ付き入力および出力
- 4 つの動作モード
- 15ns の伝搬遅延 (標準値、 $V_{CC} = 5V$ 、 $C_L = 15pF$ 、 $T_A = 25^\circ C$)
- ファンアウト (全温度範囲にわたって)
 - 標準出力: 10 の LSTTL 負荷
 - バス・ドライバ出力: 15 の LSTTL 負荷
- 広い動作温度範囲: $-55^\circ C \sim 125^\circ C$
- 平衡な伝搬遅延と遷移時間
- LSTTL ロジック IC に比べて消費電力を大幅削減
- HC タイプ
 - 2V~6V で動作
 - 優れたノイズ耐性: $N_{IL} = V_{CC}$ の 30%、 $N_{IH} = V_{CC}$ の 30% ($V_{CC} = 5V$ の場合)
- HCT タイプ
 - 4.5V~5.5V で動作
 - LSTTL 入力ロジックと直接互換、 $V_{IL} = 0.8V$ (最大値)、 $V_{IH} = 2V$ (最小値)
 - CMOS 入力互換、 V_{OL} 、 V_{OH} で $I_L \leq 1\mu A$

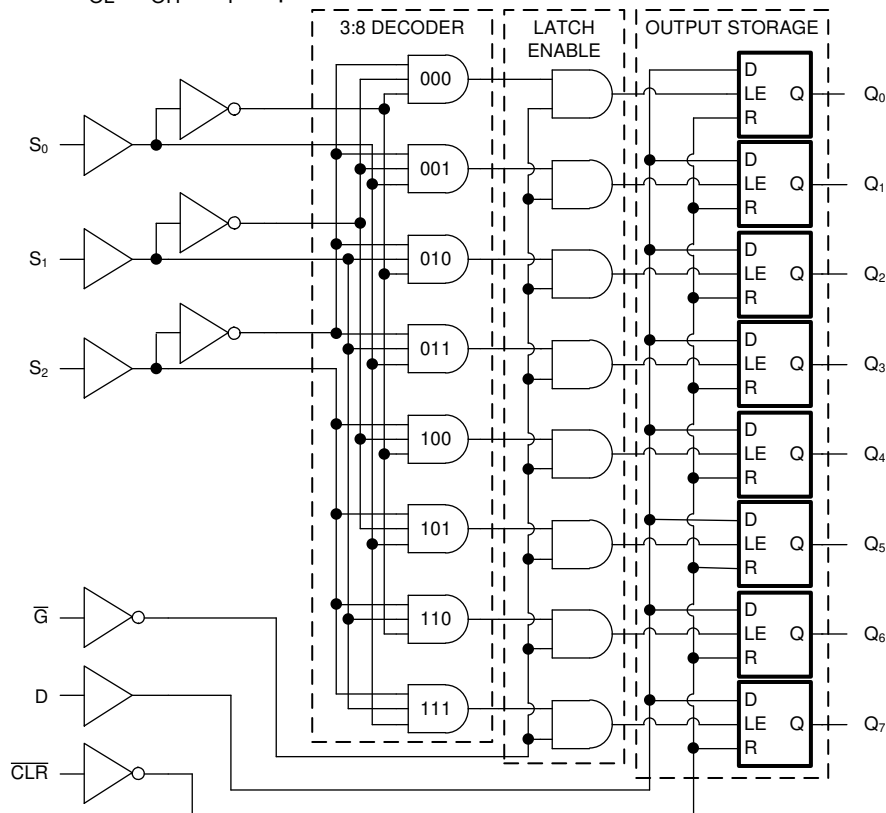
2 概要

CDx4HC(T)259 は、3 つのアクティブ動作モード (アドレス指定可能ラッチ、メモリ、8 ライン・デマルチプレクサ) と 1 つのリセット・モードを備えた 8 ビット・アドレス指定可能ラッチです。

製品情報

部品番号	パッケージ ⁽¹⁾	本体サイズ (公称)
CD54HC259F3A	CDIP (16)	21.34mm × 6.92mm
CD54HCT259F3A	CDIP (16)	21.34mm × 6.92mm
CD74HC259E	PDIP (16)	19.31mm × 6.35mm
CD74HCT259E	PDIP (16)	19.31mm × 6.35mm
CD74HC259M	SOIC (16)	9.90mm × 3.90mm
CD74HCT259M	SOIC (16)	9.90mm × 3.90mm

(1) すべてのパッケージについては、このデータシートの末尾にある注文情報を参照してください。



機能ブロック図



Table of Contents

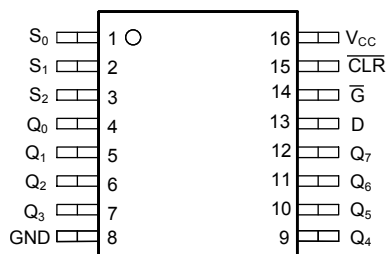
1 特長	1	7.2 Functional Block Diagram.....	10
2 概要	1	7.3 Device Functional Modes.....	11
3 Revision History	2	8 Power Supply Recommendations	12
4 Pin Configuration and Functions	3	9 Layout	12
5 Specifications	4	9.1 Layout Guidelines.....	12
5.1 Absolute Maximum Ratings.....	4	10 Device and Documentation Support	13
5.2 Recommended Operating Conditions.....	4	10.1 Documentation Support.....	13
5.3 Thermal Information.....	4	10.2 Receiving Notification of Documentation Updates..	13
5.4 Electrical Characteristics.....	5	10.3 サポート・リソース.....	13
5.5 Prerequisite for Switching Characteristics.....	6	10.4 Trademarks.....	13
5.6 Switching Characteristics ⁽²⁾	7	10.5 Electrostatic Discharge Caution.....	13
6 Parameter Measurement Information	8	10.6 Glossary.....	13
7 Detailed Description	10	11 Mechanical, Packaging, and Orderable Information	13
7.1 Overview.....	10		

3 Revision History

資料番号末尾の英字は改訂を表しています。その改訂履歴は英語版に準じています。

Changes from Revision C (October 2003) to Revision D (November 2021)	Page
• 最新のデータシート規格を反映するように、文書全体の表、図、相互参照の採番と書式設定を更新.....	1
• Updated pin names to match current TI naming conventions. A ₀ is now S ₀ , A ₁ is now S ₁ , A ₂ is now S ₂	3

4 Pin Configuration and Functions



J, D or PW Package
16-Pin CDIP, SOIC or TSSOP
Top View

5 Specifications

5.1 Absolute Maximum Ratings

Over operating free-air temperature range (unless otherwise noted)⁽¹⁾

			MIN	MAX	UNIT
V_{CC}	Supply voltage		-0.5	7	V
I_{IK}	Input clamp diode current	For $V_I < -0.5V$ or $V_I > V_{CC} + 0.5V$		± 20	mA
I_{OK}	Output clamp diode current	For $V_O < -0.5V$ or $V_O > V_{CC} + 0.5V$		± 20	mA
I_O	Drain current, per output	For $-0.5V < V_O < V_{CC} + 0.5V$		± 25	mA
I_O	Output source or sink current per output pin	For $V_O > -0.5V$ or $V_O < V_{CC} + 0.5V$		± 25	mA
	Continuous current through V_{CC} or GND			± 50	mA
T_J	Junction temperature			150	°C
T_{stg}	Storage temperature		-65	150	°C
	Lead temperature (Soldering 10s) (SOIC - lead tips only)			300	°C

- (1) 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.

5.2 Recommended Operating Conditions

			MIN	MAX	UNIT
V_{CC}	Supply voltage range	HC Types	2	6	V
		HCT Types	4.5	5.5	
V_I	Input voltage		0	V_{CC}	V
V_O	Output voltage		0	V_{CC}	V
t_t	Input rise and fall time	$V_{CC} = 2V$		1000	ns
		$V_{CC} = 4.5V$		500	
		$V_{CC} = 6V$		400	
T_A	Temperature range		-55	125	°C

5.3 Thermal Information

THERMAL METRIC		CD74HC259, CD74HCT259		UNIT
		N (PDIP)	D (SOIC)	
		16 PINS	16 PINS	
$R_{\theta JA}$	Junction-to-ambient thermal resistance ⁽¹⁾	67	73	°C/W

- (1) For more information about traditional and new thermal metrics, see the [Semiconductor and IC Package Thermal Metrics](#) application report.

5.4 Electrical Characteristics

PARAMETER		TEST CONDITIONS	V _{CC} (V)	25°C			-40°C to 85°C		-55°C to 125°C		UNIT
				MIN	TYP	MAX	MIN	MAX	MIN	MAX	
HC TYPES											
V _{IH}	High-level input voltage		2	1.5			1.5		1.5		V
			4.5	3.15			3.15		3.15		V
			6	4.2			4.2		4.2		V
V _{IL}	Low-level input voltage		2	0.5			0.5		0.5		V
			4.5	1.35			1.35		1.35		V
			6	1.8			1.8		1.8		V
V _{OH}	High-level output voltage	I _{OH} = – 20 µA	2	1.9			1.9		1.9		V
		I _{OH} = – 20 µA	4.5	4.4			4.4		4.4		V
		I _{OH} = – 20 µA	6	5.9			5.9		5.9		V
	High-level output voltage	I _{OH} = – 4 mA	4.5	3.98			3.84		3.7		V
		I _{OH} = – 5.2 mA	6	5.48			5.34		5.2		V
V _{OL}	Low-level output voltage	I _{OL} = 20 µA	2	0.1			0.1		0.1		V
		I _{OL} = 20 µA	4.5	0.1			0.1		0.1		V
		I _{OL} = 20 µA	6	0.1			0.1		0.1		V
	Low-level output voltage	I _{OL} = 4 mA	4.5	0.26			0.33		0.4		V
		I _{OL} = 5.2 mA	6	0.26			0.33		0.4		V
I _I	Input leakage current	V _I = V _{CC} or GND	6	±0.1			±1		±1		µA
I _{CC}	Supply current	V _I = V _{CC} or GND	6	8			80		160		µA
HCT TYPES											
V _{IH}	High-level input voltage		4.5 to 5.5	2			2		2		V
V _{IL}	Low-level input voltage		4.5 to 5.5	0.8			0.8		0.8		V
V _{OH}	High-level output voltage	V _{OH} = – 20 µA	4.5	4.4			4.4		4.4		V
	High-level output voltage	V _{OH} = – 4 mA	4.5	3.98			3.84		3.7		V
V _{OL}	Low-level output voltage	V _{OL} = 20 µA	4.5	0.1			0.1		0.1		V
	Low-level output voltage	V _{OL} = 4 mA	4.5	0.26			0.33		0.4		V
I _I	Input leakage current	V _I = V _{CC} or GND	5.5	±0.1			±1		±1		µA
I _{CC}	Supply current	V _I = V _{CC} or GND	5.5	8			80		160		µA
ΔI _{CC} (1)	Additional supply current per input pin	One of A0 - A2 and $\overline{LE}$ inputs held at V _{CC} – 2.1	4.5 to 5.5	100	540	675		735		µA	
		D input held at V _{CC} – 2.1	4.5 to 5.5	100	432	540		588			
		$\overline{MR}$ input held at V _{CC} – 2.1	4.5 to 5.5	100	270	337.5		367.5			

(1) V_I = V_{IH} or V_{IL}, unless otherwise noted.

5.5 Prerequisite for Switching Characteristics

PARAMETER		V _{CC} (V)	25°C			-40°C to 85°C			-55°C to 125°C			UNIT
			MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	
HC TYPES												
t _{WL}	Pulse Width $\overline{G}$	2	70			90			105			ns
		4.5	14			18			21			
		5	12			15			18			
t _{WL}	$\overline{CLR}$	2	70			90			105			ns
		4.5	14			18			21			
		6	12			15			18			
t _{SU}	Setup time D to $\overline{G}$ S to $\overline{G}$	2	80			100			120			ns
		4.5	16			20			24			
		6	14			17			20			
t _H	Hold time D to $\overline{G}$ S to $\overline{G}$	2	0			0			0			ns
		4.5	0			0			0			
		6	0			0			0			
HCT TYPES												
t _{WL}	Pulse width $\overline{G}$ $\overline{CLR}$	4.5	18			23			27			ns
t _{SU}	Setup Time D to $\overline{G}$ S to $\overline{G}$	4.5	17			21			26			ns
t _H	Hold Time D to $\overline{G}$ S to $\overline{G}$	4.5	0			0			0			pF

5.6 Switching Characteristics⁽²⁾

$C_L = 50\text{pF}$, Input $t_t = 6\text{ns}$

PARAMETER		V _{CC} (V)	25°C			-40°C to 85°C		-55°C to 125°C		UNIT	
			MIN	TYP	MAX	MIN	MAX	MIN	MAX		
HC TYPES											
t _{pd}	D to Q	2	185			230		280		ns	
		4.5	15 ⁽¹⁾			46		56			
		6	31			39		48			
	$\overline{G}$ to Q	2	170			215		255		ns	
		4.5	14 ⁽¹⁾			43		51			
		6	29			37		43			
	S to Q	2	185			230		280		ns	
		4.5	15 ⁽¹⁾			46		56			
		6	31			39		48			
	$\overline{CLR}$ to Q	2	155			195		235		ns	
		4.5	13 ⁽¹⁾			39		47			
		6	26			33		40			
t _t	Output transition time	2	75			95		110		ns	
		4.5	15			19		22			
		6	13			16		19			
C _{pd}	Power dissipation Capacitance ⁽¹⁾	5	21 ⁽¹⁾							pF	
C _i	Input capacitance		10			10		10		pF	
HCT TYPES											
t _{pd}	D to Q	4.5	16 ⁽¹⁾			39		49		59	ns
	$\overline{G}$ to Q	4.5	16 ⁽¹⁾			38		48		57	ns
	S to Q	4.5	17 ⁽¹⁾			41		51		61	ns
	$\overline{CLR}$ to Q	4.5	16 ⁽¹⁾			39		49		59	pF
C _{pd}	Power dissipation Capacitance ⁽¹⁾	5	22 ⁽¹⁾								pF
C _i	Input Capacitance		10			10		10		10	pF
t _t	Output transition time	4.5	15			19		22		22	ns

(1) $C_L = 15\text{pF}$ and $V_{CC} = 5\text{V}$.

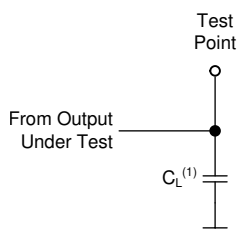
(2) For details on CMOS power calculation see, [SCAA053B](#).

6 Parameter Measurement Information

Phase relationships between waveforms were chosen arbitrarily. All input pulses are supplied by generators having the following characteristics: $PRR \leq 1 \text{ MHz}$, $Z_O = 50 \Omega$, $t_t < 6 \text{ ns}$.

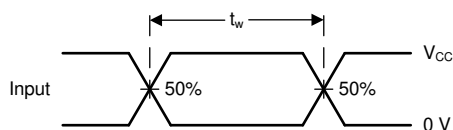
For clock inputs, $f_{\max}$ is measured when the input duty cycle is 50%.

The outputs are measured one at a time with one input transition per measurement.

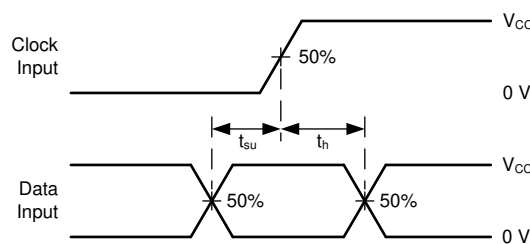


(1) C_L includes probe and test-fixture capacitance.

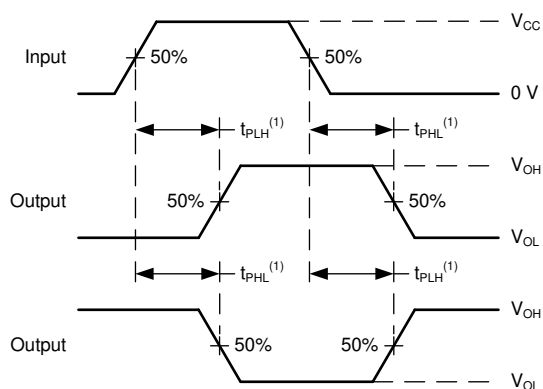
FIG 6-1. Load Circuit for Push-Pull Outputs



**FIG 6-2. Voltage Waveforms, Standard CMOS Inputs
Pulse Duration**

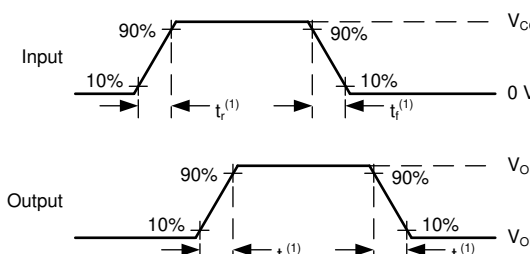


**FIG 6-3. Voltage Waveforms, Standard CMOS Inputs
Setup and Hold Times**



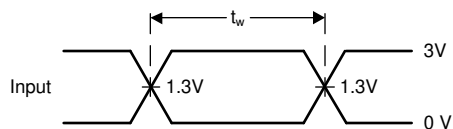
(1) The greater between t_{PLH} and t_{PHL} is the same as t_{pd} .

**FIG 6-4. Voltage Waveforms, Propagation Delays for
Standard CMOS Inputs**

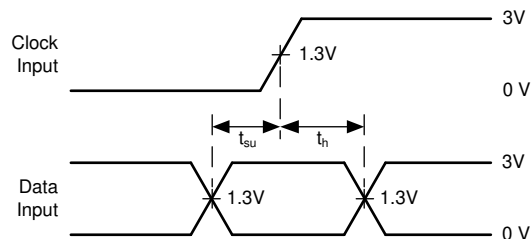


(1) The greater between t_r and t_f is the same as t_t .

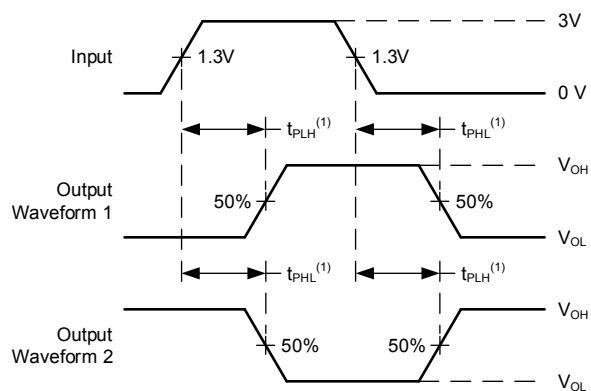
**FIG 6-5. Voltage Waveforms, Input and Output
Transition Times for Standard CMOS Inputs**



6-6. Voltage Waveforms, TTL-Compatible CMOS Inputs Pulse Duration



6-7. Voltage Waveforms, TTL-Compatible CMOS Inputs Setup and Hold Times



(1) The greater between t_{PLH} and t_{PHL} is the same as t_{pd} .

6-8. Voltage Waveforms, Propagation Delays for TTL-Compatible Inputs

7 Detailed Description

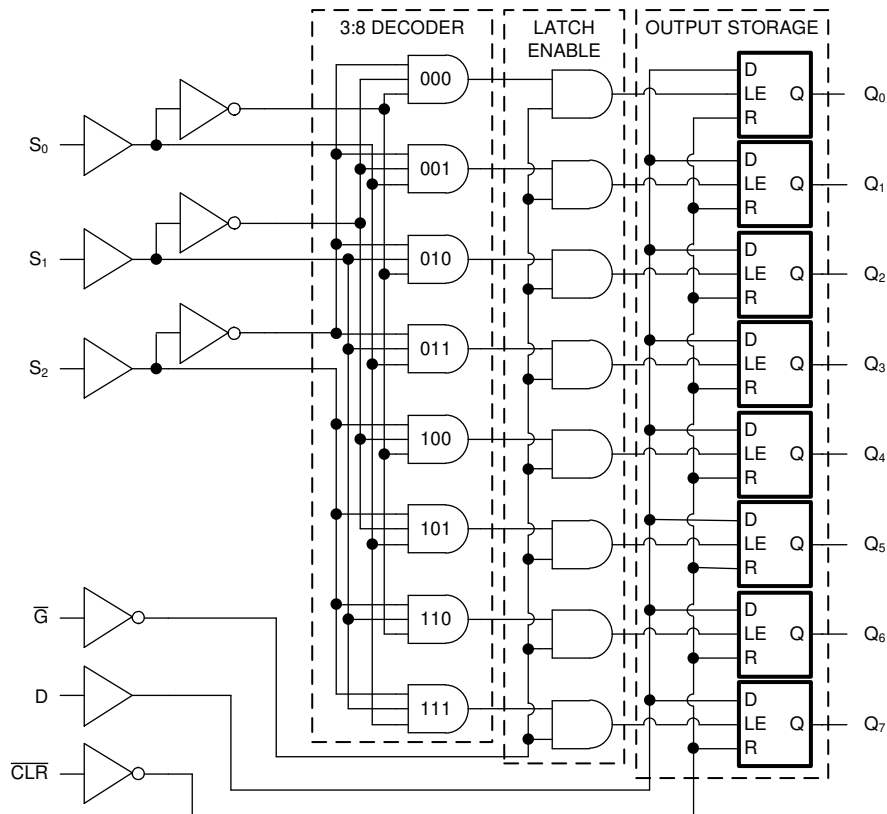
7.1 Overview

The CDx4HC(T)259 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.

Four distinct modes of operation are selectable by controlling the clear ($\overline{\text{CLR}}$) and enable ($\overline{\text{G}}$) inputs:

- Addressable-latch mode: $\overline{\text{CLR}} = \text{HIGH}$; $\overline{\text{G}} = \text{LOW}$
 - 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
- Memory mode: $\overline{\text{CLR}} = \text{HIGH}$; $\overline{\text{G}} = \text{HIGH}$
 - 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, $\overline{\text{G}}$ should be held high (inactive) while the address lines are changing
- 1-of-8 decoding or demultiplexing mode: $\overline{\text{CLR}} = \text{LOW}$; $\overline{\text{G}} = \text{LOW}$
 - The addressed output follows the level of the D input with all other outputs low
- Clear mode: $\overline{\text{CLR}} = \text{LOW}$; $\overline{\text{G}} = \text{HIGH}$
 - All outputs are low and unaffected by the address and data inputs

7.2 Functional Block Diagram



7.3 Device Functional Modes

The [Function Table](#) and [Latch Selection Table](#) below list the functional modes of the CDx4HC(T)259.

表 7-1. Function Table

INPUTS ⁽¹⁾		OUTPUT OF ADDRESSED LATCH ⁽²⁾	EACH OTHER OUTPUT ⁽²⁾	FUNCTION
CLR	$\bar{G}$			
H	L	D	Q_{iO}	Addressable latch
H	H	Q_{iO}	Q_{iO}	Memory
L	L	D	L	8-line demultiplexer
L	H	L	L	Clear

- (1) H = High voltage level, L = Low voltage level
 (2) Q_{iO} = Previous output state of selected latch, D = Data input logic value

表 7-2. Latch Selection Table

SELECT INPUTS ⁽¹⁾			LATCH ADDRESSED
S2	S1	S0	
L	L	L	0
L	L	H	1
L	H	L	2
L	H	H	3
H	L	L	4
H	L	H	5
H	H	L	6
H	H	H	7

- (1) H = High Voltage Level, L = Low Voltage Level

8 Power Supply Recommendations

The power supply can be any voltage between the minimum and maximum supply voltage rating located in the *Recommended Operating Conditions*. Each V_{CC} terminal should have a good bypass capacitor to prevent power disturbance. A 0.1- μ F capacitor is recommended for this device. It is acceptable to parallel multiple bypass caps to reject different frequencies of noise. The 0.1- μ F and 1- μ F capacitors are commonly used in parallel. The bypass capacitor should be installed as close to the power terminal as possible for best results.

9 Layout

9.1 Layout Guidelines

When using multiple-input and multiple-channel logic devices inputs must not ever be left floating. In many cases, functions or parts of functions of digital logic devices are unused; for example, when only two inputs of a triple-input AND gate are used or only 3 of the 4 buffer gates are used. Such unused input pins must not be left unconnected because the undefined voltages at the outside connections result in undefined operational states. All unused inputs of digital logic devices must be connected to a logic high or logic low voltage, as defined by the input voltage specifications, to prevent them from floating. The logic level that must be applied to any particular unused input depends on the function of the device. Generally, the inputs are tied to GND or V_{CC} , whichever makes more sense for the logic function or is more convenient.

10 Device and Documentation Support

TI offers an extensive line of development tools. Tools and software to evaluate the performance of the device, generate code, and develop solutions are listed below.

10.1 Documentation Support

10.1.1 Related Documentation

10.2 Receiving Notification of Documentation Updates

To receive notification of documentation updates, navigate to the device product folder on [ti.com](https://www.ti.com). Click on *Subscribe to updates* to register and receive a weekly digest of any product information that has changed. For change details, review the revision history included in any revised document.

10.3 サポート・リソース

[TI E2E™ サポート・フォーラム](#)は、エンジニアが検証済みの回答と設計に関するヒントをエキスパートから迅速かつ直接得ることができる場所です。既存の回答を検索したり、独自の質問をしたりすることで、設計に必要な支援を迅速に得ることができます。

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10.4 Trademarks

TI E2E™ is a trademark of Texas Instruments.

すべての商標は、それぞれの所有者に帰属します。

10.5 Electrostatic Discharge Caution



This integrated circuit can be damaged by ESD. Texas Instruments recommends that all integrated circuits be handled with appropriate precautions. Failure to observe proper handling and installation procedures can cause damage.

ESD damage can range from subtle performance degradation to complete device failure. Precision integrated circuits may be more susceptible to damage because very small parametric changes could cause the device not to meet its published specifications.

10.6 Glossary

[TI Glossary](#) This glossary lists and explains terms, acronyms, and definitions.

11 Mechanical, Packaging, and Orderable Information

The following pages include mechanical, packaging, and orderable information. This information is the most current data available for the designated devices. This data is subject to change without notice and revision of this document. For browser-based versions of this data sheet, refer to the left-hand navigation.

PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
5962-8985201EA	ACTIVE	CDIP	J	16	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-8985201EA CD54HCT259F3A	Samples
CD54HC259F3A	ACTIVE	CDIP	J	16	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	8551901EA CD54HC259F3A	Samples
CD54HCT259F3A	ACTIVE	CDIP	J	16	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-8985201EA CD54HCT259F3A	Samples
CD74HC259E	ACTIVE	PDIP	N	16	25	RoHS & Green	NIPDAU	N / A for Pkg Type	-55 to 125	CD74HC259E	Samples
CD74HC259M96	ACTIVE	SOIC	D	16	2500	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-55 to 125	HC259M	Samples
CD74HCT259E	ACTIVE	PDIP	N	16	25	RoHS & Green	NIPDAU	N / A for Pkg Type	-55 to 125	CD74HCT259E	Samples
CD74HCT259EE4	ACTIVE	PDIP	N	16	25	RoHS & Green	NIPDAU	N / A for Pkg Type	-55 to 125	CD74HCT259E	Samples
CD74HCT259M96	ACTIVE	SOIC	D	16	2500	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-55 to 125	HCT259M	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) **RoHS:** TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

RoHS Exempt: TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

Green: TI defines "Green" to mean the content of Chlorine (Cl) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.

(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 finish/Ball material - Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

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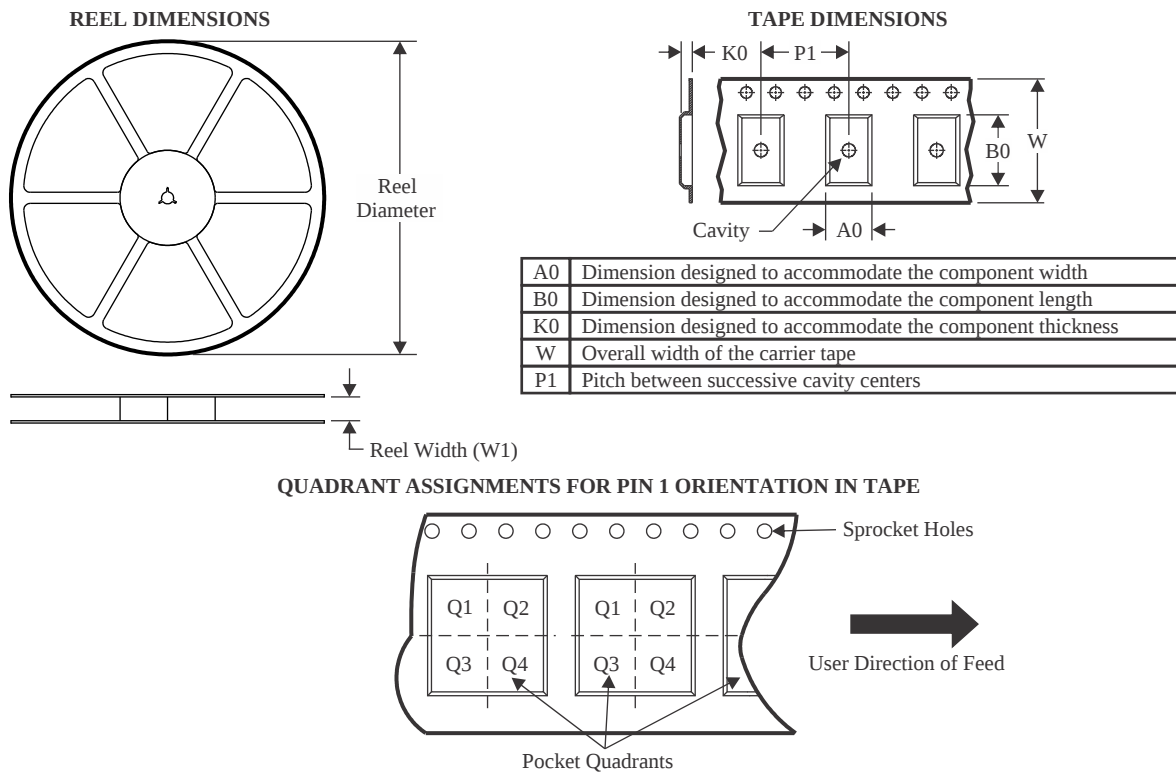
OTHER QUALIFIED VERSIONS OF CD54HC259, CD54HCT259, CD74HC259, CD74HCT259 :

- Catalog : [CD74HC259](#), [CD74HCT259](#)
- Military : [CD54HC259](#), [CD54HCT259](#)

NOTE: Qualified Version Definitions:

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

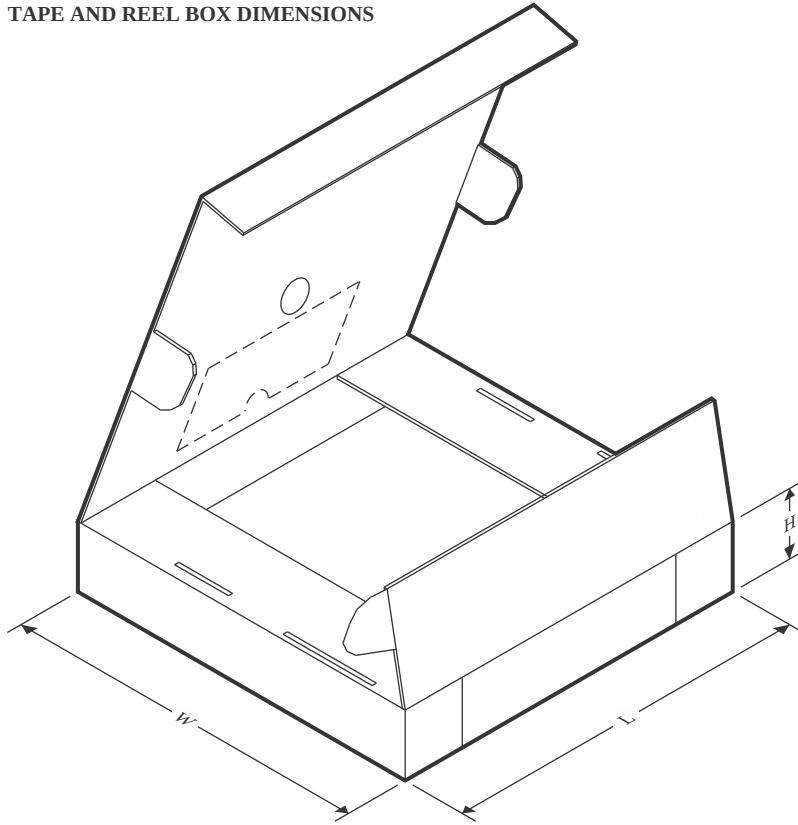
TAPE AND REEL INFORMATION



*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
CD74HC259M96	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
CD74HCT259M96	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1

TAPE AND REEL BOX DIMENSIONS



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
CD74HC259M96	SOIC	D	16	2500	356.0	356.0	35.0
CD74HCT259M96	SOIC	D	16	2500	356.0	356.0	35.0

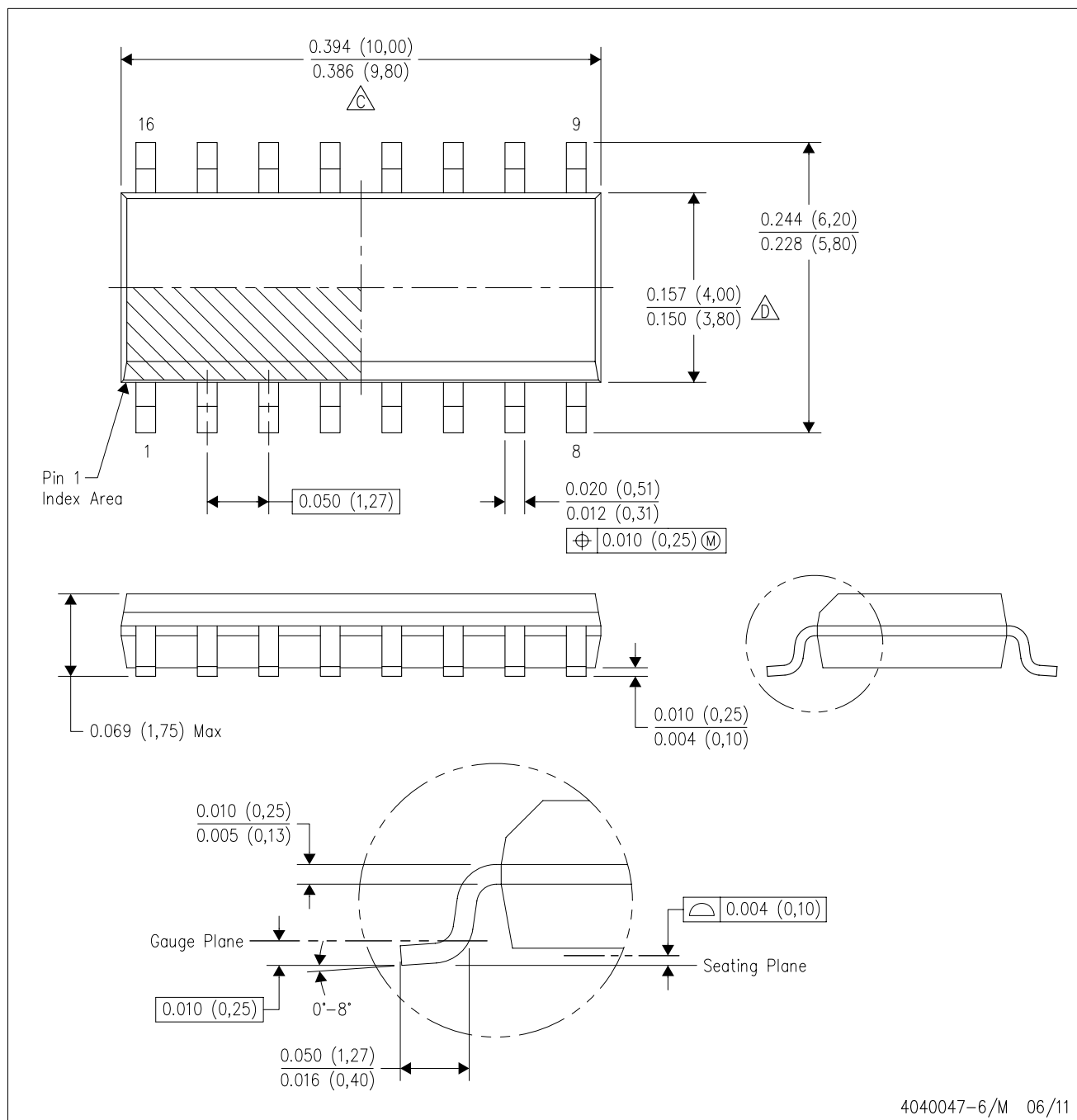
TUBE


*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (μm)	B (mm)
CD74HC259E	N	PDIP	16	25	506	13.97	11230	4.32
CD74HC259E	N	PDIP	16	25	506	13.97	11230	4.32
CD74HCT259E	N	PDIP	16	25	506	13.97	11230	4.32
CD74HCT259E	N	PDIP	16	25	506	13.97	11230	4.32
CD74HCT259EE4	N	PDIP	16	25	506	13.97	11230	4.32
CD74HCT259EE4	N	PDIP	16	25	506	13.97	11230	4.32

D (R-PDSO-G16)

PLASTIC SMALL OUTLINE



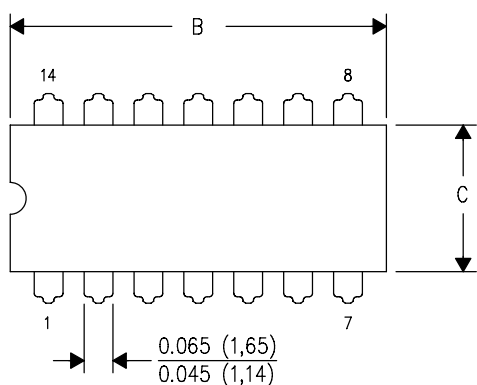
4040047-6/M 06/11

- NOTES:
- A. All linear dimensions are in inches (millimeters).
 - 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 0.006 (0,15) each side.
 - D. 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.

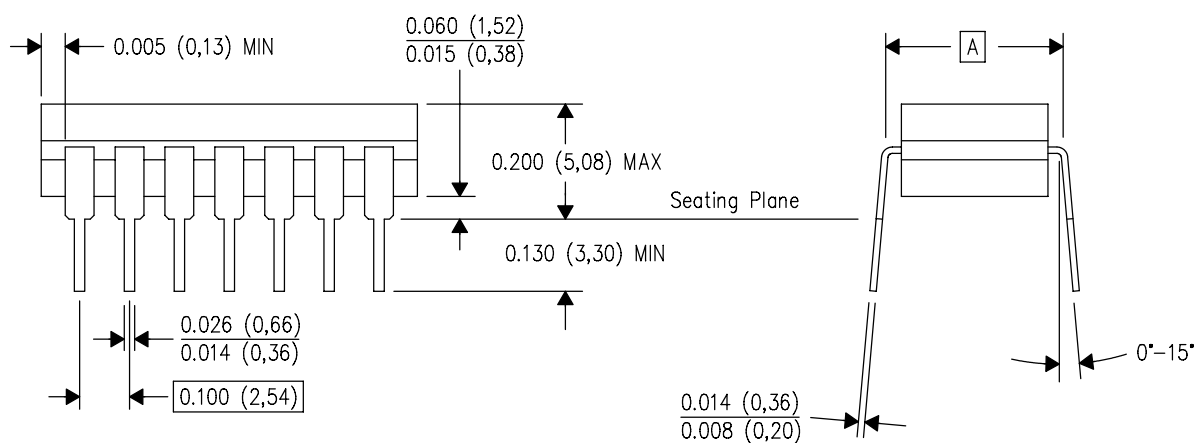
J (R-GDIP-T**)

14 LEADS SHOWN

CERAMIC DUAL IN-LINE PACKAGE



PINS ** DIM	14	16	18	20
A	0.300 (7,62) BSC	0.300 (7,62) BSC	0.300 (7,62) BSC	0.300 (7,62) BSC
B MAX	0.785 (19,94)	.840 (21,34)	0.960 (24,38)	1.060 (26,92)
B MIN	—	—	—	—
C MAX	0.300 (7,62)	0.300 (7,62)	0.310 (7,87)	0.300 (7,62)
C MIN	0.245 (6,22)	0.245 (6,22)	0.220 (5,59)	0.245 (6,22)



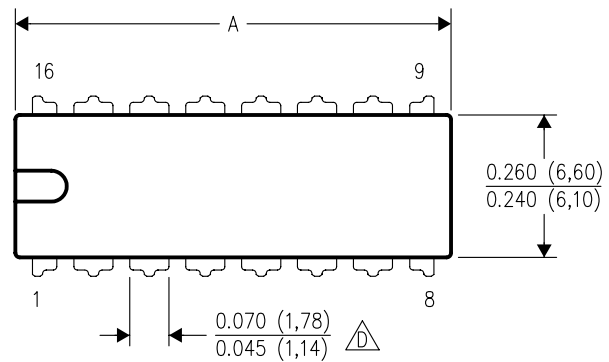
4040083/F 03/03

- NOTES:
- 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.

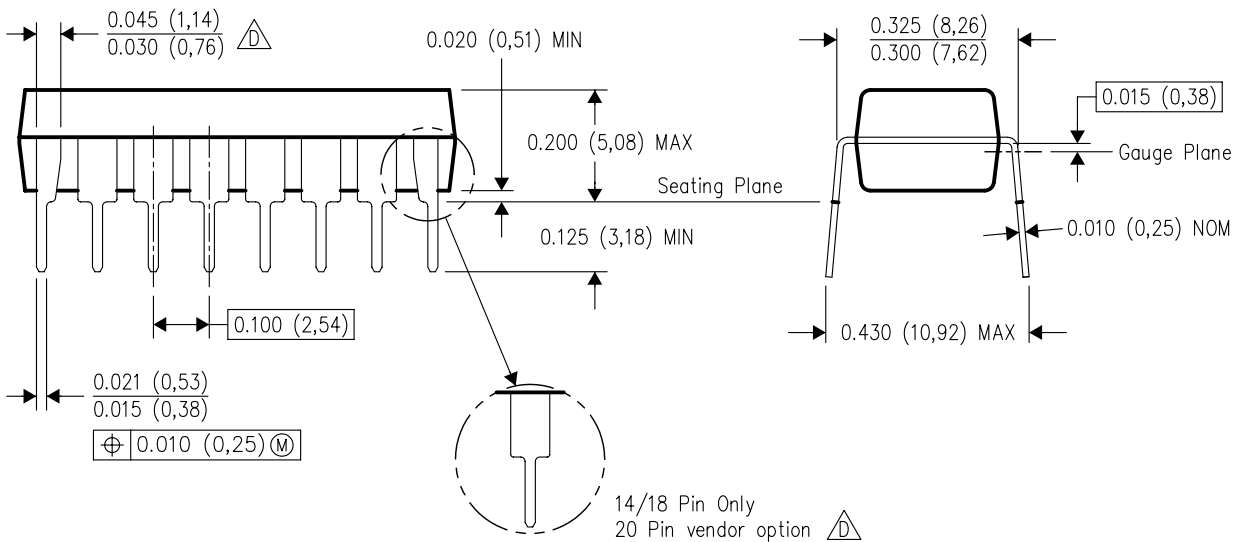
N (R-PDIP-T**)

16 PINS SHOWN

PLASTIC DUAL-IN-LINE PACKAGE



PINS **	14	16	18	20
DIM				
A MAX	0.775 (19,69)	0.775 (19,69)	0.920 (23,37)	1.060 (26,92)
A MIN	0.745 (18,92)	0.745 (18,92)	0.850 (21,59)	0.940 (23,88)
MS-001 VARIATION	AA	BB	AC	AD



4040049/E 12/2002

- NOTES:
- 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.

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