

高速 CMOS 逻辑六路缓冲器/线路驱动器，三态同相和反相

1 特性

- 缓冲输入
- 高电流总线驱动器输出
- 传播延迟典型值 t_{PLH} 、 $t_{PHL} = 8\text{ns}$
 $V_{CC} = 5\text{V}$ 、 $C_L = 15\text{pF}$ 且 $T_A = 25^\circ\text{C}$ 时
- 扇出 (在温度范围内)
 - 标准输出：10 个 LSTTL 负载
 - 总线驱动器输出：15 个 LSTTL 负载
- 宽工作温度范围：-55°C 至 +125°C
- 平衡的传播延迟及转换时间
- 与 LSTTL 逻辑 IC 相比，可显著降低功耗
- HC 类型
 - 工作电压为 2V 至 6V
 - 高抗噪性：当 $V_{CC} = 5\text{V}$ 时， $N_{IL} = 30\%$ ， $N_{IH} = V_{CC}$ 的 30%
- HCT 类型
 - 工作电压为 4.5V 至 5.5V
 - 直接 LSTTL 输入逻辑兼容性， $V_{IL} = 0.8\text{V}$ (最大值)， $V_{IH} = 2\text{V}$ (最小值)
 - CMOS 输入兼容性，当电压为 V_{OL} 、 V_{OH} 时， $I_I \leq 1\mu\text{A}$

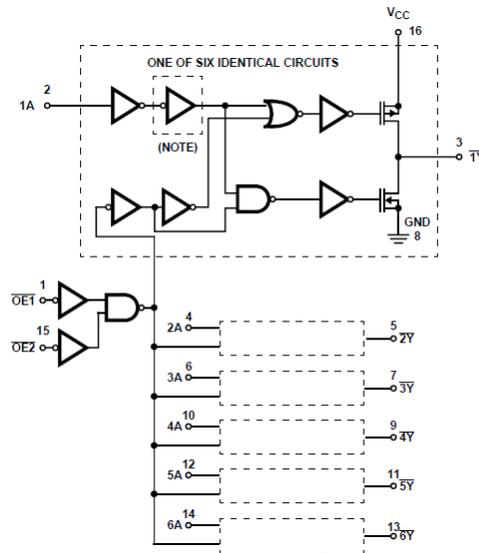
器件信息

器件型号	封装 ⁽¹⁾	封装尺寸 (标称值)
CD54HC365	J (CerDIP, 16)	19.56mm × 6.92mm
CD54HC366	J (CerDIP, 16)	19.56mm × 6.92mm
CD54HCT365	J (CerDIP, 16)	19.56mm × 6.92mm
CD74HC365	N (PDIP, 16)	19.30mm × 6.35mm
	D (SOIC, 16)	9.90mm × 3.90mm
	D (SOIC, 16)	9.90mm × 3.90mm
	D (SOIC, 16)	9.90mm × 3.90mm
CD74HC366	N (PDIP, 16)	19.30mm × 6.35mm
	D (SOIC, 16)	9.90mm × 3.90mm
	D (SOIC, 16)	9.90mm × 3.90mm
CD74HCT365	N (PDIP, 16)	19.30mm × 6.35mm
	D (SOIC, 16)	9.90mm × 3.90mm
	D (SOIC, 16)	9.90mm × 3.90mm
	D (SOIC, 16)	9.90mm × 3.90mm

(1) 如需了解所有可用封装，请参阅数据表末尾的可订购产品附录。

2 说明

HC365、HCT365 和 HC366 硅栅 CMOS 三态缓冲器是通用型高速同相和反相缓冲器。



HC/HCT365 和 HC366 的逻辑图 (HC/HCT365 的输出是所示输出的补充，即 1Y、2Y 等)

A. HC/HCT 365 中不包含逆变器。



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3 Revision History

注：以前版本的页码可能与当前版本的页码不同

Changes from Revision C (October 2003) to Revision D (July 2022)

Page

- 更新了整个文档中的编号、格式、表格、图和交叉参考，以反映现代数据表标准..... 1

4 Pin Configuration and Functions

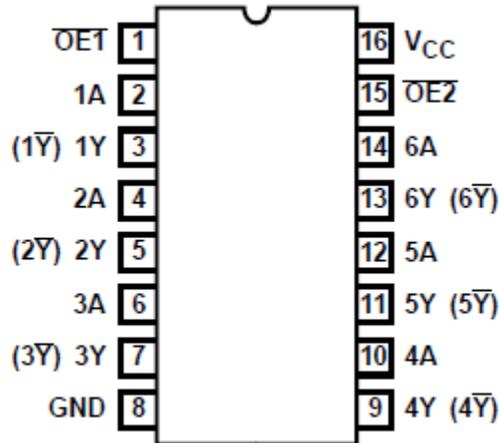


图 4-1. CD54HC365, CD54HCT365, CD54HC366 (CERDIP) CD74HC365, CD74HCT365, CD74HC366 (PDIP, SOIC) Top View

表 4-1. Pin Functions

NO.	PIN		TYPE ⁽¹⁾	DESCRIPTION
		NAME		
1		$\overline{OE1}$	I	Output Enable 1, Active Low
2		1A	I	1A Input
3		1Y	O	1Y Output
4		2A	I	2A Input
5		2Y	O	2Y Output
6		3A	I	3A Input
7		3Y	O	3Y Output
8		GND	—	Ground Pin
9		4Y	O	4Y Output
10		4A	I	4A Input
11		5Y	O	5Y Output
12		5A	I	5A Input
13		6Y	O	6Y Output
14		6A	I	6A Input
15		$\overline{OE2}$	I	Output Enable 2, Active Low
16		V _{CC}	—	Power Pin

(1) Signal Types: I = Input, O = Output, I/O = Input or Output.

5 Specifications

5.1 Absolute Maximum Ratings⁽¹⁾

			MIN	MAX	UNIT
V _{CC}	DC supply voltage		-0.5	7	V
I _{IK}	DC input diode current	For V _I < -0.5 V or V _I > V _{CC} + 0.5 V		±20	mA
I _{OK}	DC output diode current	For V _O < -0.5 V or V _O > V _{CC} + 0.5		±20	mA
I _O	DC drain current, per output	For -0.5 V < V _O < V _{CC} + 0.5 V		±35	mA
I _O	DC output source or sink current per output pin	For V _O > -0.5 V or V _O < V _{CC} + 0.5 V		±25	mA
I _{CC}	DC V _{CC} or ground current			±50	mA
T _J	Maximum junction temperature			150	°C
T _{stg}	Maximum storage temperature range		-65	150	°C
	Maximum 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 Operating Conditions

			MIN	MAX	UNIT
V _{CC}	Supply voltage range	HC Types	2	6	V
		HCT Types	4.5	5.5	V
V _I , V _O	DC input or output voltage		0	V _{CC}	V
	Input rise and fall time	2 V		1000	ns
		4.5 V		500	
		6 V		400	
T _A	Temperature range		-55	125	°C

5.3 Thermal Information

THERMAL METRIC		N (PDIP)	D (SOIC)	UNIT
		16 PINS	16 PINS	
R _{θJA}	Junction-to-ambient thermal resistance ⁽¹⁾	67	73	°C/W

- (1) The package thermal impedance is calculated in accordance with JESD 51 - 7

5.4 Electrical Characteristics

PARAMETER		TEST CONDITIONS		V _{CC} (V)	25°C			-40°C to 85°C		-55°C to 125°C		UNIT
		V _I (V)	I _O (mA)		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		
				6	4.2			4.2		4.2		
V _{IL}	Low level input voltage			2	0.5			0.5		0.5		V
				4.5	1.35			1.35		1.35		
				6	1.8			1.8		1.8		
V _{OH}	High level output voltage CMOS loads	V _{IH} or V _{IL}	-0.02	2	1.9			1.9		1.9		V
			-0.02	4.5	4.4			4.4		4.4		
	-0.02		6	5.9			5.9		5.9			
	High level output voltage TTL loads		-6	4.5	3.98			3.84		3.7		
-7.8		6	5.48			5.34		5.2				
V _{OL}	Low level output voltage CMOS loads	V _{IH} or V _{IL}	0.02	2	0.1			0.1		0.1		V
			0.02	4.5	0.1			0.1		0.1		
			0.02	6	0.1			0.1		0.1		
	Low level output voltage TTL loads		6	4.5	0.26			0.33		0.4		
7.8		6	0.26			0.33		0.4				
I _I	Input leakage current	V _{CC} or GND		6	±0.1			±1		±1		μA
I _{CC}	Quiescent device current	V _{CC} or GND	0	6	8			80		160		μA
I _{OZ}	Three-state leakage current	V _{IH} or V _{IL}	V _O = V _{CC} or GND	6	±0.5			±5		±10		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 CMOS loads	V _{IH} or V _{IL}	-0.02	4.5	4.4			4.4		4.4		V
	High level output voltage TTL loads		-4	4.5	3.98			3.84		3.7		
V _{OL}	Low level output voltage CMOS loads	V _{IH} or V _{IL}	0.02	4.5	0.1			0.1		0.1		V
	Low level output voltage TTL loads		4	4.5	0.26			0.33		0.4		
I _I	Input leakage current	V _{CC} or GND	0	5.5	±0.1			±1		±1		μA
I _{CC}	Quiescent device current	V _{CC} or GND	0	5.5	8			80		160		μA
Δ I _{CC}	Additional supply current per input pin: 1 Unit Load ⁽¹⁾	V _{CC} - 2.1		4.5 to 5.5	100 360			450		490		μA
I _{OZ}	Three-state leakage current	V _{IL} or V _{IH}	V _O = V _{CC} or GND	5.5	±0.5			±5		±10		μA

(1) For dual-supply systems theoretical worst case (V_I = 2.4 V, V_{CC} = 5.5 V) specification is 1.8 mA

5.5 HCT Input Loading Table

Input	Unit Loads ⁽¹⁾
\overline{OE}	0.6
All others	0.55

(1) Unit Load is ΔI_{CC} limit specified in 节 5.4, e.g., 360 μ A max at 25°C.

5.6 Switching Characteristics

$t_r, t_f = 6$ ns

PARAMETER		TEST CONDITIONS	V_{CC} (V)	25°C		40°C to 85°C	55°C to 125°C	UNIT
				TYP	MAX	MAX	MAX	
HC TYPES								
t_{PLH}, t_{PHL}	Propagation delay, data to outputs HC/HCT 365	$C_L = 50$ pF	2	105	130	160	ns	
			4.5	21	26	32	ns	
			6	18	22	27	ns	
		$C_L = 15$ pF	5	8			ns	
t_{PLH}, t_{PHL}	Propagation delay, data to outputs HC 366	$C_L = 50$ pF	2	110	140	165	ns	
			4.5	22	28	33	ns	
			6	19	24	28	ns	
		$C_L = 15$ pF	5	9			ns	
t_{PLH}, t_{PHL}	Propagation delay time, output enable and disable to outputs	$C_L = 50$ pF	2	150	190	225	ns	
			4.5	30	38	45	ns	
			6	26	33	38	ns	
		$C_L = 15$ pF	5	12			ns	
t_{TLH}, t_{THL}	Output transition time	$C_L = 50$ pF	2	60	75	90	ns	
			4.5	12	15	18	ns	
			6	10	13	15	ns	
C_I	Input capacitance			10	10	10	pF	
C_O	Three-state output capacitance			20	20	20	pF	
C_{PD}	Power dissipation capacitance ⁽¹⁾ (2)		5	40			pF	
HCT TYPES								
t_{PLH}, t_{PHL}	Propagation delay, data to outputs HC/HCT 365	$C_L = 50$ pF	4.5	25	31	38	ns	
			5	9			ns	
		$C_L = 15$ pF	5	9			ns	
			5	9			ns	
t_{PLH}, t_{PHL}	Propagation delay, data to outputs HC 366	$C_L = 50$ pF	4.5	27	34	41	ns	
		$C_L = 15$ pF	5	11			ns	
t_{PLH}, t_{PHL}	Propagation delay time, output enable and disable to outputs	$C_L = 50$ pF	4.5	35	44	53	ns	
		$C_L = 15$ pF	5	14			ns	
t_{TLH}, t_{THL}	Output transition time	$C_L = 50$ pF	4.5	12	15	18	ns	
C_{IN}	Input capacitance			10	10	10	pF	
C_O	Three-stage capacitance			20	20	20	pF	
C_{PD}	Power dissipation capacitance ⁽¹⁾ (2)		5	42			pF	

(1) C_{PD} is used to determine the dynamic power consumption, per buffer.

(2) $P_D = V_{CC}^2 f_i (C_{PD} + C_I)$ where f_i = input frequency, C_L = output load capacitance, V_{CC} = supply voltage.

6 Parameter Measurement Information

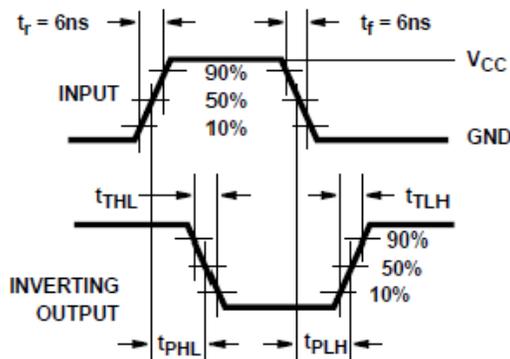


图 6-1. HC Transition Times and Propagation Delay Times, Combination Logic

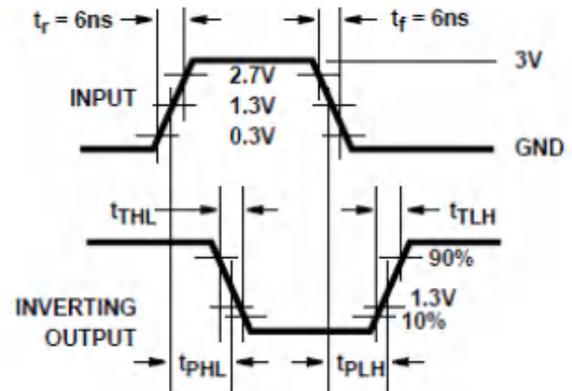


图 6-2. HCT Transition Times and Propagation Delay Times, Combination Logic

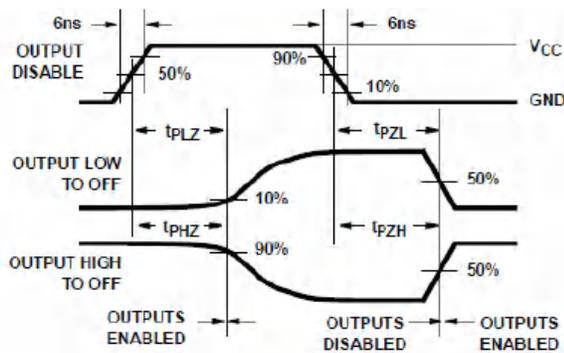


图 6-3. HC Three-State Propagation Delay Waveform

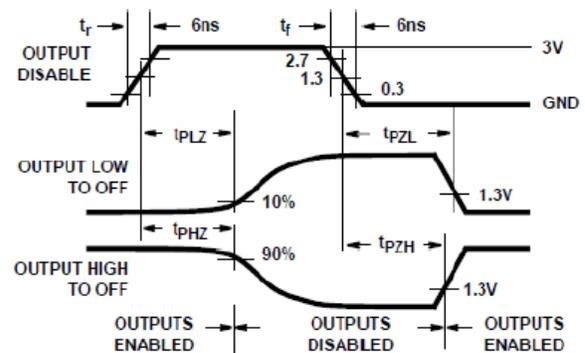
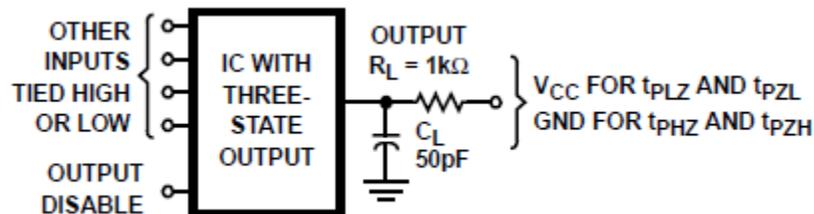


图 6-4. HCT Three-State Propagation Delay Waveform



- A. Open drain waveforms t_{pLZ} and t_{pZL} are the same as those for three-state shown on the left. The test circuit is output $R_L = 1\text{ k}\Omega$ to V_{CC} , $C_L = 50\text{ pF}$.

图 6-5. HC and HCT Three-State Propagation Delay Test Circuit

7 Detailed Description

7.1 Overview

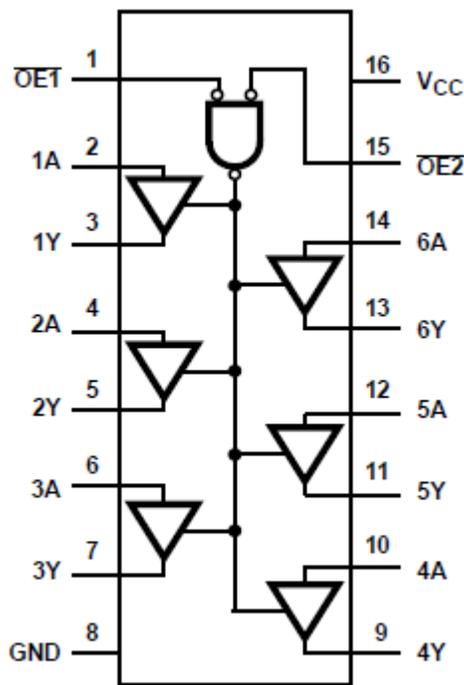
The ' HC365, ' HCT365, and ' HC366 silicon gate CMOS three-state buffers are general purpose high-speed non-inverting and inverting buffers. They have high drive current outputs which enable high speed operation even when driving large bus capacitances. These circuits possess the low power dissipation of CMOS circuitry, yet have speeds comparable to low power Schottky TTL circuits. Both circuits are capable of driving up to 15 low power Schottky inputs.

The ' HC365 and ' HCT365 are non-inverting buffers, whereas the ' HC366 is an inverting buffer. These devices have two three-state control inputs ($\overline{OE}1$ and $\overline{OE}2$) which are NORed together to control all six gates.

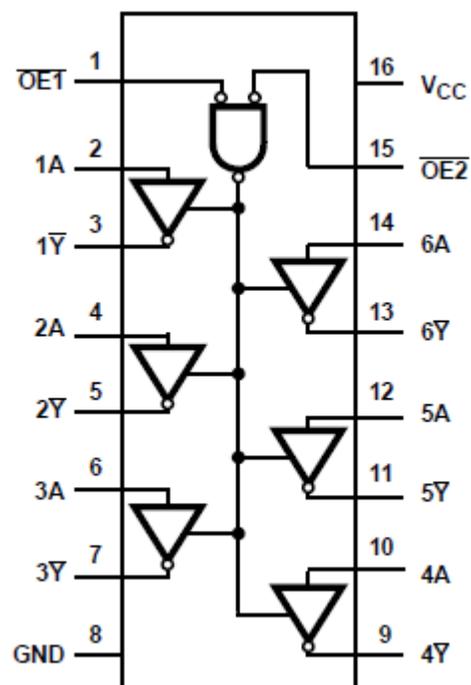
The ' HCT365 logic families are speed, function and pin compatible with the standard LS logic family.

7.2 Functional Block Diagram

Functional Diagrams



HC365, HCT365



HC366

7.3 Device Functional Modes

表 7-1. Function Table

INPUTS ⁽¹⁾			OUTPUTS (Y) ⁽²⁾	
OE 1	OE 2	A	HC/HCT 365	HCT 366
L	L	L	L	H
L	L	H	H	L
X	H	X	Z	Z
H	X	X	Z	Z

(1) H = High Voltage Level, L = Low Voltage Level, X = Don't Care

(2) H = Driving High, L = Driving Low, Z = High Impedance State

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 接收文档更新通知

要接收文档更新通知，请导航至 ti.com 上的器件产品文件夹。点击 [订阅更新](#) 进行注册，即可每周接收产品信息更改摘要。有关更改的详细信息，请查看任何已修订文档中包含的修订历史记录。

10.2 支持资源

TI E2E™ 支持论坛是工程师的重要参考资料，可直接从专家获得快速、经过验证的解答和设计帮助。搜索现有解答或提出自己的问题可获得所需的快速设计帮助。

链接的内容由各个贡献者“按原样”提供。这些内容并不构成 TI 技术规范，并且不一定反映 TI 的观点；请参阅 TI 的《使用条款》。

10.3 Trademarks

TI E2E™ is a trademark of Texas Instruments.
所有商标均为其各自所有者的财产。

10.4 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.

10.5 术语表

[TI 术语表](#) 本术语表列出并解释了术语、首字母缩略词和定义。

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
CD54HC365F3A	ACTIVE	CDIP	J	16	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	8500101EA CD54HC365F3A	Samples
CD54HC366F3A	ACTIVE	CDIP	J	16	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-8682801EA CD54HC366F3A	Samples
CD54HCT365F3A	ACTIVE	CDIP	J	16	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	CD54HCT365F3A	Samples
CD74HC365E	ACTIVE	PDIP	N	16	25	RoHS & Green	NIPDAU	N / A for Pkg Type	-55 to 125	CD74HC365E	Samples
CD74HC365M	ACTIVE	SOIC	D	16	40	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-55 to 125	HC365M	Samples
CD74HC365M96	ACTIVE	SOIC	D	16	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-55 to 125	HC365M	Samples
CD74HC365M96E4	ACTIVE	SOIC	D	16	2500	TBD	Call TI	Call TI	-55 to 125		Samples
CD74HC365MT	ACTIVE	SOIC	D	16	250	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-55 to 125	HC365M	Samples
CD74HC366E	ACTIVE	PDIP	N	16	25	RoHS & Green	NIPDAU	N / A for Pkg Type	-55 to 125	CD74HC366E	Samples
CD74HC366M	ACTIVE	SOIC	D	16	40	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-55 to 125	HC366M	Samples
CD74HC366M96	ACTIVE	SOIC	D	16	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-55 to 125	HC366M	Samples
CD74HCT365E	ACTIVE	PDIP	N	16	25	RoHS & Green	NIPDAU	N / A for Pkg Type	-55 to 125	CD74HCT365E	Samples
CD74HCT365M	ACTIVE	SOIC	D	16	40	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-55 to 125	HCT365M	Samples
CD74HCT365M96	ACTIVE	SOIC	D	16	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-55 to 125	HCT365M	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 ≤ 1000 ppm threshold. Antimony trioxide based flame retardants must also meet the ≤ 1000 ppm 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 CD54HC365, CD54HC366, CD54HCT365, CD74HC365, CD74HC366, CD74HCT365 :

● Catalog : [CD74HC365](#), [CD74HC366](#), [CD74HCT365](#)

● Automotive : [CD74HC366-Q1](#), [CD74HC366-Q1](#)

● Military : [CD54HC365](#), [CD54HC366](#), [CD54HCT365](#)

NOTE: Qualified Version Definitions:

- Catalog - TI's standard catalog product
- Automotive - Q100 devices qualified for high-reliability automotive applications targeting zero defects

- Military - QML certified for Military and Defense Applications

TAPE AND REEL INFORMATION

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE


*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
CD74HC365M96	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
CD74HC366M96	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
CD74HCT365M96	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)
CD74HC365M96	SOIC	D	16	2500	340.5	336.1	32.0
CD74HC366M96	SOIC	D	16	2500	340.5	336.1	32.0
CD74HCT365M96	SOIC	D	16	2500	340.5	336.1	32.0

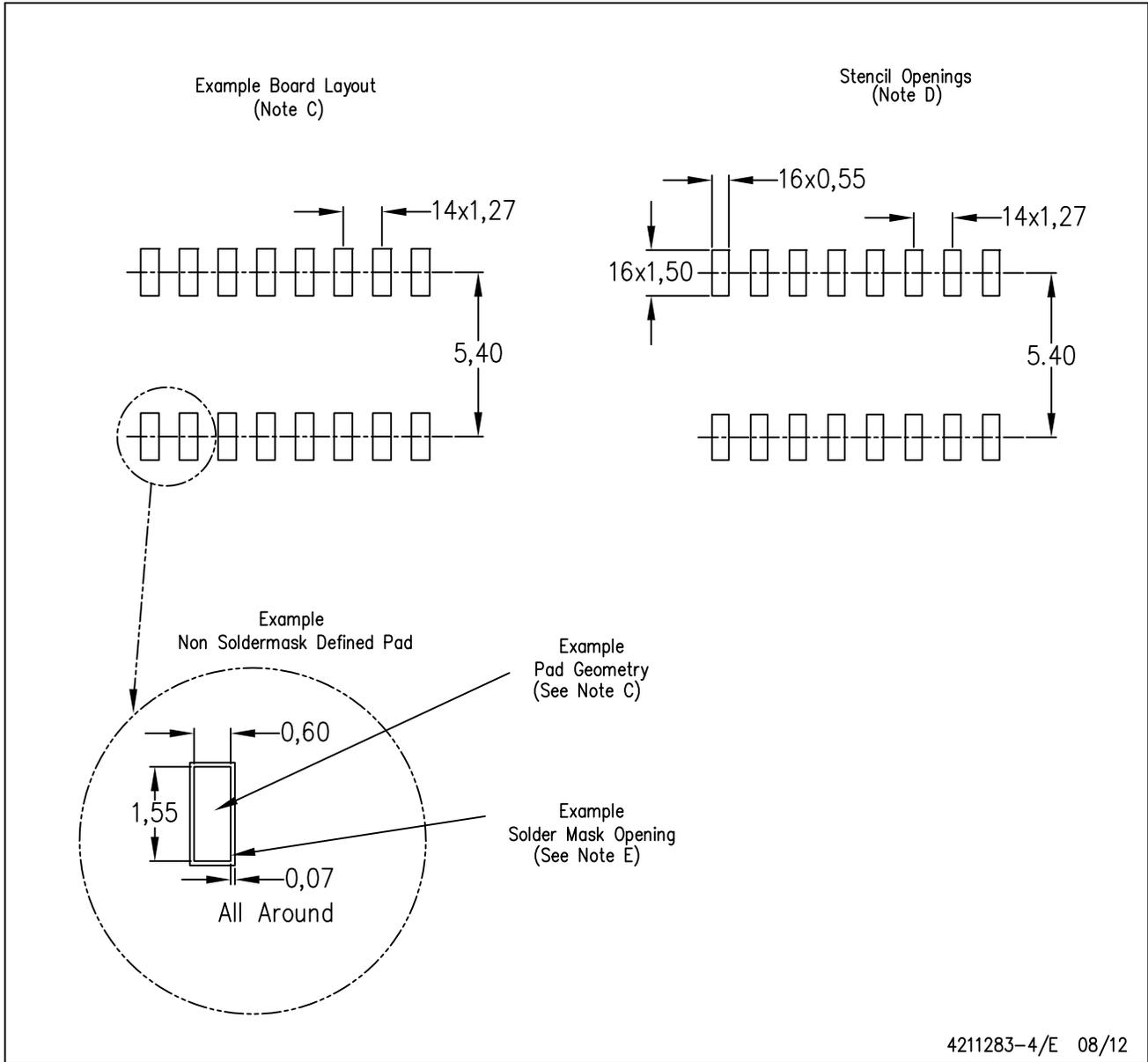
TUBE


*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (μm)	B (mm)
CD74HC365E	N	PDIP	16	25	506	13.97	11230	4.32
CD74HC365E	N	PDIP	16	25	506	13.97	11230	4.32
CD74HC365M	D	SOIC	16	40	507	8	3940	4.32
CD74HC366E	N	PDIP	16	25	506	13.97	11230	4.32
CD74HC366E	N	PDIP	16	25	506	13.97	11230	4.32
CD74HC366M	D	SOIC	16	40	507	8	3940	4.32
CD74HCT365E	N	PDIP	16	25	506	13.97	11230	4.32
CD74HCT365E	N	PDIP	16	25	506	13.97	11230	4.32
CD74HCT365M	D	SOIC	16	40	507	8	3940	4.32

D (R-PDSO-G16)

PLASTIC SMALL OUTLINE

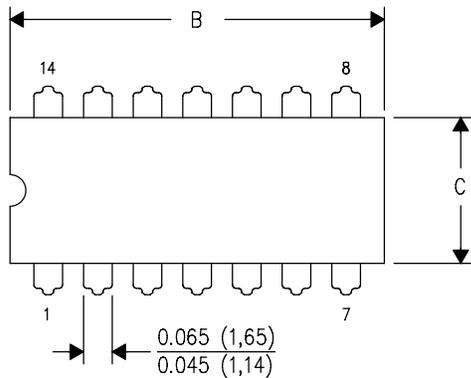


- NOTES:
- All linear dimensions are in millimeters.
 - This drawing is subject to change without notice.
 - Publication IPC-7351 is recommended for alternate designs.
 - Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
 - Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.

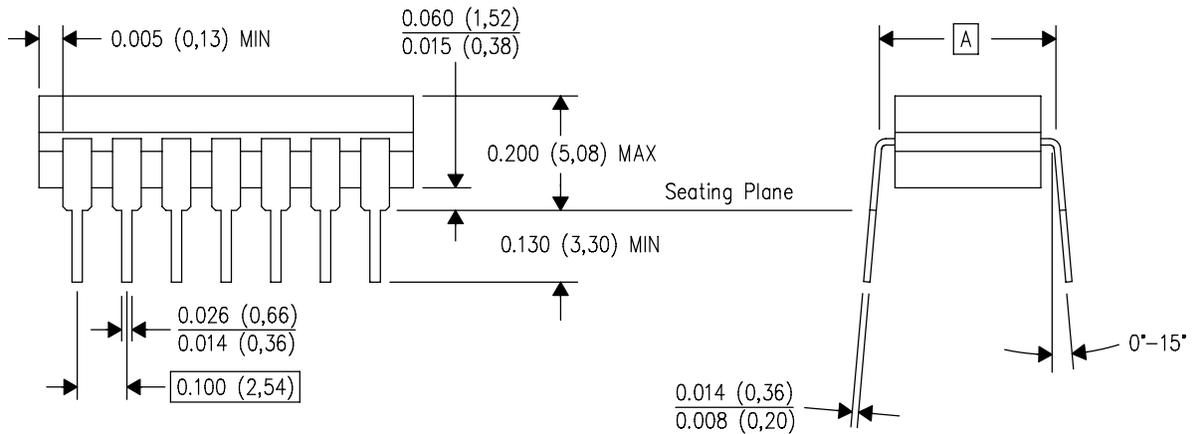
J (R-GDIP-T**)

14 LEADS SHOWN

CERAMIC DUAL IN-LINE PACKAGE



DIM \ PINS **	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:
- All linear dimensions are in inches (millimeters).
 - This drawing is subject to change without notice.
 - This package is hermetically sealed with a ceramic lid using glass frit.
 - Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
 - Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, GDIP1-T18 and GDIP1-T20.

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



- 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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