

## SNx4AHCT573 具有三态输出的八路透明 D 类锁存器

### 1 特性

- 输入兼容 TTL 电压
- 闩锁性能超过 250mA，符合 JESD 17 规范
- 对于符合 MIL-PRF-38535 标准的产品，所有参数均经过测试，除非另有说明。对于所有其他产品，生产流程不一定包含对所有参数的测试。

### 2 应用

- 服务器
- PC 和笔记本电脑
- 网络交换机
- 可穿戴保健和健身设备
- 电信基础设施
- 电子销售终端

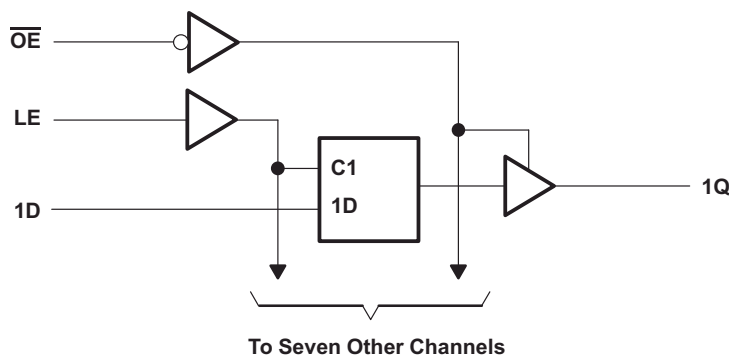
### 3 说明

SNx4AHCT573 器件是八路透明 D 类锁存器。在锁存器使能 (LE) 输入为高电平时，Q 输出将跟随数据 (D) 输入。当 LE 为低电平时，Q 输出被锁存在 D 输入端的逻辑电平上。

#### 器件信息

器件型号	等级 <sup>(1)</sup>	封装 <sup>(1)</sup>
SN74AHCT573	目录	DB ( SSOP , 20 )
		DGV ( TVSOP , 20 )
		DW ( SOIC , 20 )
		N ( PDIP , 20 )
		PW ( TSSOP , 20 )
SN54AHCT573	军用	J ( CDIP , 20 )
		W ( CFP , 20 )

(1) 有关更多信息，请参阅节 11。



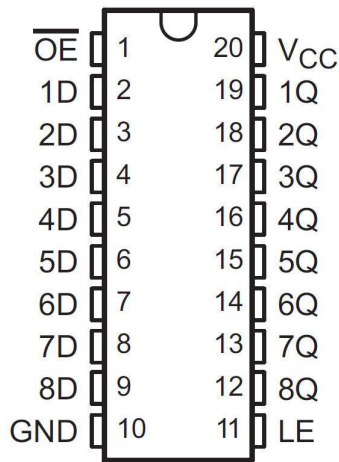
简化原理图



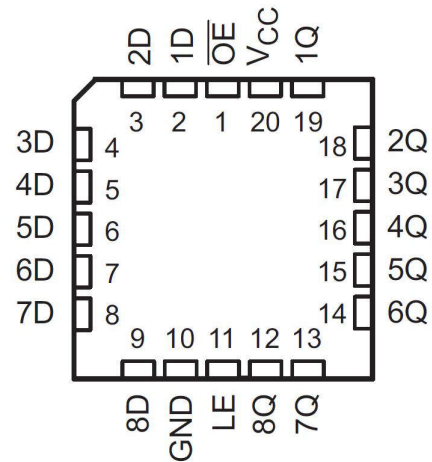
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## 4 Pin Configuration and Functions



**图 4-1. SN54AHCT573 J or W Package  
SN74AHCT573 DB, DGV, DW, N, NS, or PW  
Package (Top View)**



**图 4-2. SN54AHCT573 FK Package (Top View)**

**表 4-1. Pin Functions**

PIN		TYPE <sup>(1)</sup>	DESCRIPTION
NO.	NAME		
1	$\overline{OE}$	I	Output Enable
2	1D	I	1D Input
3	2D	I	2D Input
4	3D	I	3D Input
5	4D	I	4D Input
6	5D	I	5D Input
7	6D	I	6D Input
8	7D	I	7D Input
9	8D	I	8D Input
10	GND	—	Ground
11	LE	I	Latch Enable
12	8Q	O	8Q Output
13	7Q	O	7Q Output
14	6Q	O	6Q Output
15	5Q	O	5Q Output
16	4Q	O	4Q Output
17	3Q	O	3Q Output
18	2Q	O	2Q Output
19	1Q	O	1Q Output
20	V <sub>CC</sub>	—	Power Pin

(1) I = input, O = output

## 5 Specifications

### 5.1 Absolute Maximum Ratings

over operating free-air temperature range (unless otherwise noted)<sup>(1)</sup>

		MIN	MAX	UNIT
V <sub>CC</sub>	Supply voltage range	-0.5	7	V
V <sub>I</sub>	Input voltage range <sup>(2)</sup>	-0.5	7	V
V <sub>O</sub>	Output voltage range <sup>(2)</sup>	-0.5	V <sub>CC</sub> + 0.5	V
I <sub>IK</sub>	Input clamp current	V <sub>I</sub> < 0	-20	mA
I <sub>OK</sub>	Output clamp current	V <sub>O</sub> < 0 or V <sub>O</sub> > V <sub>CC</sub>	±20	mA
I <sub>O</sub>	Continuous output current	V <sub>O</sub> = 0 to V <sub>CC</sub>	±25	mA
	Continuous current through V <sub>CC</sub> or GND		±75	mA
T <sub>J</sub>	Junction temperature		150	°C
T <sub>stg</sub>	Storage temperature	-65	150	°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.
- (2) The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

### 5.2 ESD Ratings

			MIN	MAX	UNIT
V <sub>(ESD)</sub>	Electrostatic discharge	Human body model (HBM), per ANSI/ESDA/JEDEC JS-001 <sup>(1)</sup>		±2000	V
		Charged-device model (CDM), per ANSI/ESDA/JEDEC JS-002 <sup>(2)</sup>		±1000	

- (1) JEDEC document JEP155 states that 500-V HBM allows safe manufacturing with a standard ESD control process.
- (2) JEDEC document JEP157 states that 250-V CDM allows safe manufacturing with a standard ESD control process.

### 5.3 Recommended Operating Conditions

over operating free-air temperature range (unless otherwise noted)<sup>(1)</sup>

		SN54AHCT573		SN74AHCT573		UNIT
		MIN	MAX	MIN	MAX	
V <sub>CC</sub>	Supply voltage	4.5	5.5	4.5	5.5	V
V <sub>IH</sub>	High-level input voltage	2		2		V
V <sub>IL</sub>	Low-level input voltage		0.8		0.8	V
V <sub>I</sub>	Input voltage	0	5.5	0	5.5	V
V <sub>O</sub>	Output voltage	0	V <sub>CC</sub>	0	V <sub>CC</sub>	V
I <sub>OH</sub>	High-level output current		-8		-8	mA
I <sub>OL</sub>	Low-level output current		8		8	mA
Δt/Δv	Input transition rise or fall rate		20		20	ns/V
T <sub>A</sub>	Operating free-air temperature	-55	125	-40	125	°C

- (1) All unused inputs of the device must be held at V<sub>CC</sub> or GND to ensure proper device operation. Refer to the TI application report, *Implications of Slow or Floating CMOS Inputs (SCBA004)*.

## 5.4 Thermal Information

THERMAL METRIC <sup>(1)</sup>		SN74AHCT573						UNIT
		DW	DB	DGV	N	NS	PW	
		20 PINS						
R <sub>θJA</sub>	Junction-to-ambient thermal resistance	79.4	97.9	117.2	53.3	79.2	116.8	°C/W
R <sub>θJC(top)</sub>	Junction-to-case (top) thermal resistance	45.7	59.6	32.7	40.0	45.7	58.5	
R <sub>θJB</sub>	Junction-to-board thermal resistance	46.9	53.1	58.7	34.2	46.8	78.7	
ψ <sub>JT</sub>	Junction-to-top characterization parameter	18.7	21.3	1.15	26.4	19.3	12.6	
ψ <sub>JB</sub>	Junction-to-board characterization parameter	46.5	52.7	58.0	34.1	46.4	77.9	
R <sub>θJC(bot)</sub>	Junction-to-case (bottom) thermal resistance	N/A	N/A	N/A	N/A	N/A	N/A	

(1) For more information about traditional and new thermal metrics, see the *IC Package Thermal Metrics* application report (SPRA953).

## 5.5 Electrical Characteristics

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

PARAMETER	TEST CONDITIONS	V <sub>CC</sub>	T <sub>A</sub> = 25°C			–55°C to 125°C SN54AHCT573		–40°C to 85°C SN74AHCT573		–40°C to 125°C SN74AHCT573		UNIT
			MIN	TYP	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
V <sub>OH</sub>	I <sub>OH</sub> = –50 μA	4.5V	4.4	4.5		4.4		4.4		4.4		V
	I <sub>OH</sub> = –8mA		3.94			3.8		3.8		3.8		
V <sub>OL</sub>	I <sub>OL</sub> = 50 μA	4.5V			0.1		0.1		0.1		0.1	V
	I <sub>OL</sub> = 8mA				0.36		0.44		0.44		0.44	
I <sub>I</sub>	V <sub>I</sub> = 5.5V or GND	0V to 5.5V			±0.1		±1 <sup>(1)</sup>		±1		±2	μA
I <sub>OZ</sub>	V <sub>O</sub> = V <sub>CC</sub> or GND	5.5V			±0.25		±2.5		±2.5		±2.5	μA
I <sub>CC</sub>	V <sub>I</sub> = V <sub>CC</sub> or GND, I <sub>O</sub> = 0	5.5V			4		40		40		40	μA
ΔI <sub>CC</sub> <sup>(2)</sup>	One input at 3.4V, Other inputs at V <sub>CC</sub> or GND	5.5V			1.35		1.5		1.5		1.5	mA
C <sub>i</sub>	V <sub>I</sub> = V <sub>CC</sub> or GND	5V		2.5	10				10		10	pF
C <sub>o</sub>	V <sub>O</sub> = V <sub>CC</sub> or GND	5V		3								pF

(1) On products compliant to MIL-PRF-38535, this parameter is not production tested at V<sub>CC</sub> = 0V.

(2) This is the increase in supply current for each input at one of the specified TTL voltage levels, rather than 0V or V<sub>CC</sub>.

## 5.6 Timing Requirements

over recommended operating free-air temperature range, V<sub>CC</sub> = 5V ± 0.5V (unless otherwise noted) (see 节 6)

PARAMETER		T <sub>A</sub> = 25°C		–55°C to 125°C SN54AHCT573		–40°C to 85°C SN74AHCT573		–40°C to 125°C SN74AHCT573		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t <sub>w</sub>	Pulse duration, LE high	5		5		5		5		ns
t <sub>su</sub>	Setup time, data before LE↓	3.5		3.5		3.5		3.5		ns
t <sub>h</sub>	Hold time, data after LE↓	1.5		1.5		1.5		1.5		ns

## 5.7 Switching Characteristics, SNx4AHCT573

over recommended operating free-air temperature range,  $V_{CC} = 5V \pm 0.5V$  (unless otherwise noted) (see 节 6)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	$T_A = 25^\circ\text{C}$			$T_A = -40^\circ\text{C to } 85^\circ\text{C}$		$T_A = -40^\circ\text{C to } 125^\circ\text{C}$		UNIT
			MIN	TYP	MAX	MIN	MAX	MIN	MAX	
$C_L = 15\text{pF}$										
$t_{pd}$	D	Q		5.1	7	1	9	1	9.5	ns
$t_{pd}$	LE	Q		5.6	7.5	1	9	1	9.5	ns
$t_{en}$	$\overline{OE}$	Q		5.5	7.5	1	10	1	11	ns
$t_{dis}$	$\overline{OE}$	Q		5.5	8	1	11	1	12	ns
$C_L = 50\text{pF}$										
$t_{pd}$	D	Q		6.1	8	1	10	1	10.5	ns
$t_{pd}$	LE	Q		6.6	8.5	1	10	1	10.5	ns
$t_{en}$	$\overline{OE}$	Q		6.5	8.5	1	11	1	11.5	ns
$t_{dis}$	$\overline{OE}$	Q		6.7	9	1	12	1	12.5	ns
$t_{sk(o)}$					1.5		1.5			ns

(1) On products compliant to MIL-PRF-38535, this parameter is not production tested.

(2) On products compliant to MIL-PRF-38535, this parameter does not apply.

## 5.8 Switching Characteristics, SN54AHCT573

over recommended operating free-air temperature range,  $V_{CC} = 5V \pm 0.5V$  (unless otherwise noted) (see 节 6)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	$T_A = 25^\circ\text{C}$			$T_A = -55^\circ\text{C to } 125^\circ\text{C}$		UNIT
			MIN	TYP	MAX	MIN	MAX	
$C_L = 15\text{pF}$								
$t_{pd}$	D	Q		5.1 <sup>(1)</sup>	7 <sup>(1)</sup>	1 <sup>(1)</sup>	9 <sup>(1)</sup>	ns
$t_{pd}$	LE	Q		5.6 <sup>(1)</sup>	7.5 <sup>(1)</sup>	1 <sup>(1)</sup>	9 <sup>(1)</sup>	ns
$t_{en}$	$\overline{OE}$	Q		5.5 <sup>(1)</sup>	7.5 <sup>(1)</sup>	1 <sup>(1)</sup>	9 <sup>(1)</sup>	ns
$t_{dis}$	$\overline{OE}$	Q		5.5 <sup>(1)</sup>	8 <sup>(1)</sup>	1 <sup>(1)</sup>	11 <sup>(1)</sup>	ns
$C_L = 50\text{pF}$								
$t_{pd}$	D	Q		6.1	8	1	10	ns
$t_{pd}$	LE	Q		6.6	8.5	1	10	ns
$t_{en}$	$\overline{OE}$	Q		6.5	8.5	1	11	ns
$t_{dis}$	$\overline{OE}$	Q		6.7	9	1	12	ns
$t_{sk(o)}$					1.5 <sup>(2)</sup>			ns

## 5.9 Operating Characteristics

$V_{CC} = 5V$ ,  $T_A = 25^\circ\text{C}$

PARAMETER	TEST CONDITIONS	TYP	UNIT
$C_{pd}$ Power dissipation capacitance	No load, $f = 1\text{MHz}$	16	pF

### 5.10 Typical Characteristics

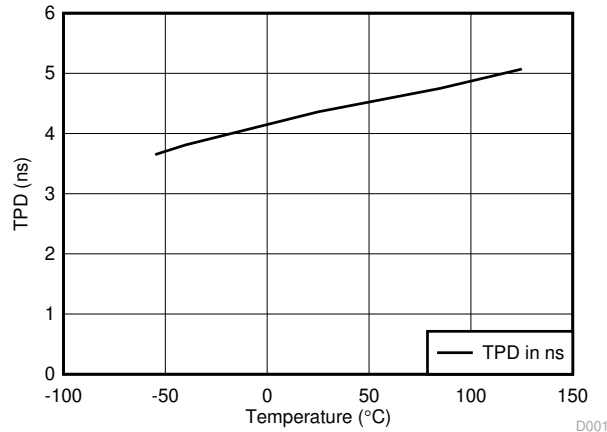


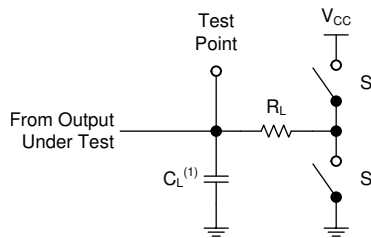
图 5-1. TPD vs Temperature at 5V

### 6 Parameter Measurement Information

Phase relationships between waveforms were chosen arbitrarily. All input pulses are supplied by generators having the following characteristics: PRR ≤ 1MHz, Z<sub>O</sub> = 50Ω, R<sub>L</sub> = 1kΩ, t<sub>t</sub> < 3ns, V<sub>t</sub> = 1.5V.

For clock inputs, f<sub>max</sub> 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<sub>L</sub> includes probe and test-fixture capacitance.

图 6-1. Load Circuit for 3-State Outputs

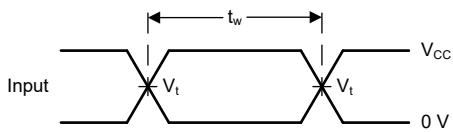


图 6-2. Voltage Waveforms, Pulse Duration

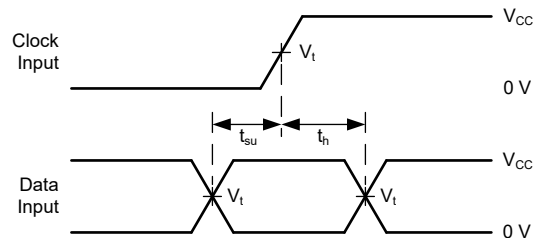
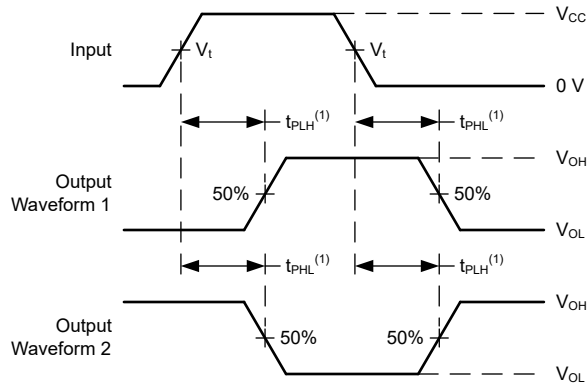
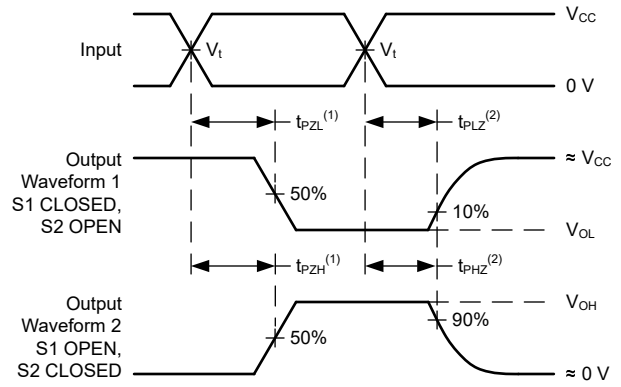


图 6-3. Voltage Waveforms, Setup and Hold Times



(1) The greater between  $t_{pLH}$  and  $t_{pHL}$  is the same as  $t_{pd}$ .

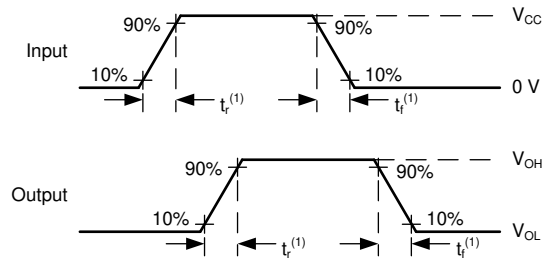
**图 6-4. Voltage Waveforms, Propagation Delays**



(1)  $t_{pLZ}$  and  $t_{pHZ}$  are the same as  $t_{dis}$ .

(2)  $t_{pZL}$  and  $t_{pZH}$  are the same as  $t_{en}$ .

**图 6-5. Voltage Waveforms, Propagation Delays for 3-State Outputs**



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

**图 6-6. Voltage Waveforms, Input and Output Transition Times**

## 7 Detailed Description

### 7.1 Overview

The SNx4AHCT573 devices are octal transparent D-type latches. When the latch-enable (LE) input is high, the Q outputs follow the data (D) inputs. When LE is low, the Q outputs are latched at the logic levels of the D inputs.

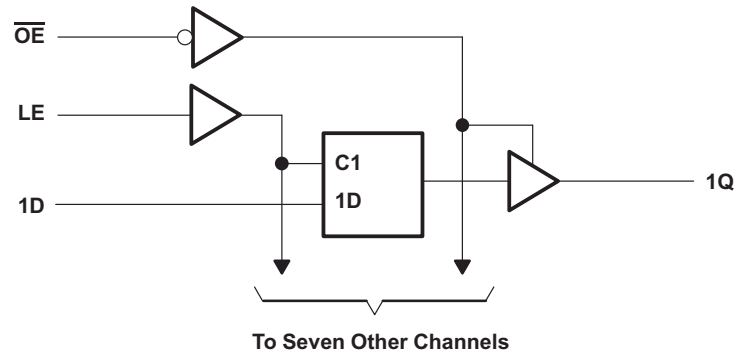
A buffered output-enable ( $\overline{OE}$ ) input can be used to place the eight outputs in either a normal logic state (high or low) or the high-impedance state. In the high-impedance state, the outputs neither load nor drive the bus lines significantly. The high-impedance state and increased drive provide the capability to drive bus lines without interface or pull-up components.

To put the device in the high-impedance state during power up or power down, tie  $\overline{OE}$  to  $V_{CC}$  through a pull-up resistor; the current-sinking capability of the driver determines the minimum value of the resistor.

$\overline{OE}$  does not affect the internal operations of the latches. Old data can be retained or new data can be entered while the outputs are in the high-impedance state.



## 7.2 Functional Block Diagram



## 7.3 Feature Description

- TTL inputs
  - Lowered switching threshold allows up translation 3.3V to 5V
- Slow edges reduce output ringing

## 7.4 Device Functional Modes

**表 7-1. Function Table  
(Each Latch)**

INPUTS			OUTPUT
$\overline{OE}$	LE	D	Q
L	H	H	H
L	H	L	L
L	L	X	$Q_0$
H	X	X	Z

## 8 Application and Implementation

### 备注

以下应用部分中的信息不属于 TI 器件规格的范围，TI 不担保其准确性和完整性。TI 的客户应负责确定器件是否适用于其应用。客户应验证并测试其设计，以确保系统功能。

### 8.1 Application Information

The SN74AHCT573 is a low-drive CMOS device that can be used for a multitude of bus interface type applications where output ringing is a concern. The low drive and slow edge rates will minimize overshoot and undershoot on the outputs. The input switching levels have been lowered to accommodate TTL inputs of  $0.8V_{IL}$  and  $2V_{IH}$ . This feature makes the device an excellent choice for translating up from 3.3V to 5V. 图 8-2 shows this type of translation.

### 8.2 Typical Application

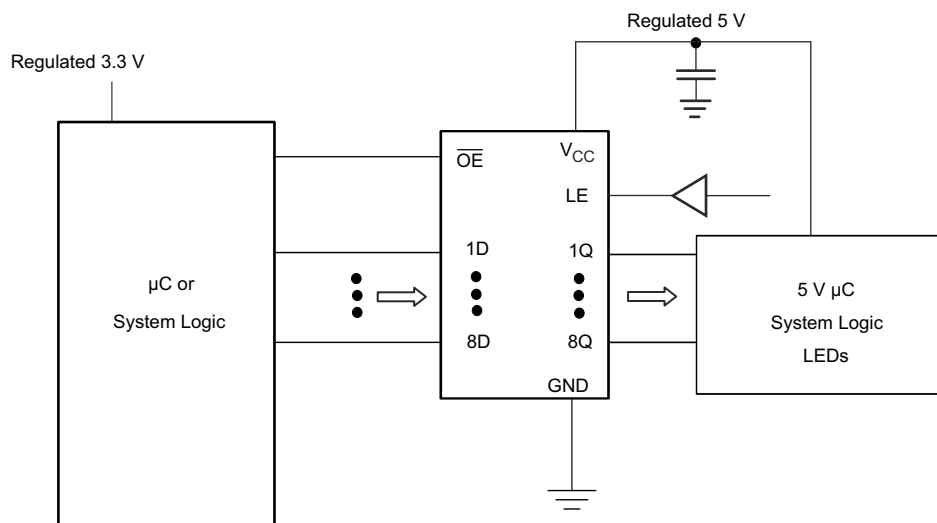


图 8-1. Typical Application Schematic

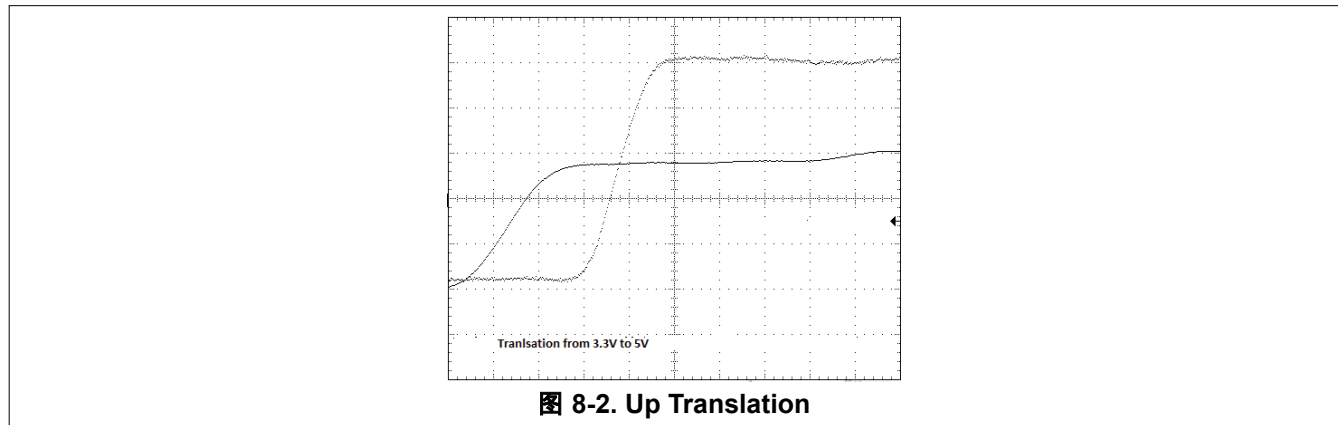
#### 8.2.1 Design Requirements

This device uses CMOS technology and has balanced output drive. Take care to avoid bus contention because it can drive currents that would exceed maximum limits. The high drive will also create fast edges into light loads; therefore, routing and load conditions should be considered to prevent ringing.

#### 8.2.2 Detailed Design Procedure

- Recommended input conditions:
  - Rise time and fall time specs: See  $(\Delta t/\Delta V)$  in the [Recommended Operating Conditions](#) table.
  - Specified High and low levels: See  $(V_{IH}$  and  $V_{IL})$  in the [Recommended Operating Conditions](#) table.
  - Inputs are overvoltage tolerant allowing them to go as high as 5.5V at any valid  $V_{CC}$ .
- Recommend output conditions
  - Load currents should not exceed 25mA per output and 75mA total for the part.
  - Outputs should not be pulled above  $V_{CC}$ .

### 8.2.3 Application Curves



### 8.3 Power Supply Recommendations

The power supply can be any voltage between the MIN and MAX supply voltage rating located in the [Recommended Operating Conditions](#) table.

Each  $V_{CC}$  pin should have a good bypass capacitor to prevent power disturbance. For devices with a single supply, 0.1 $\mu$ F bypass capacitor is recommended. If there are multiple  $V_{CC}$  pins, 0.01 $\mu$ F or 0.022 $\mu$ F is recommended for each power pin. It is acceptable to parallel multiple bypass capacitors to reject different frequencies of noise. A 0.1 $\mu$ F and 1 $\mu$ F are commonly used in parallel. The bypass capacitor should be installed as close to the power pin as possible for best results.

### 8.4 Layout

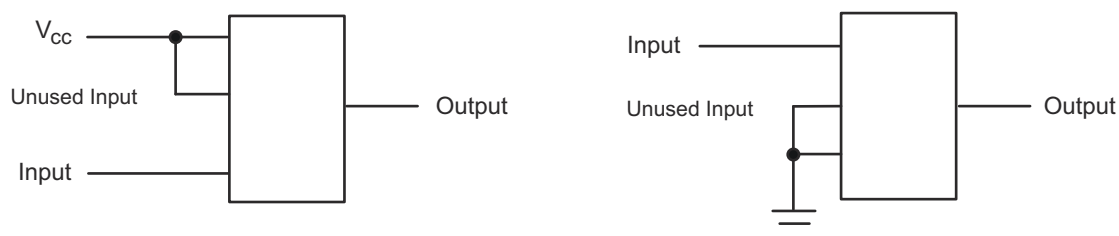
#### 8.4.1 Layout Guidelines

When using multiple bit logic devices inputs should never float.

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 input pins should not be left unconnected because the undefined voltages at the outside connections result in undefined operational states. [图 8-3](#) specifies the rules that must be observed under all circumstances.

All unused inputs of digital logic devices must be connected to a high or low bias to prevent them from floating. The logic level that should be applied to any particular unused input depends on the function of the device. Generally they will be tied to GND or  $V_{CC}$ ; whichever makes more sense or is more convenient. It is generally acceptable to float outputs unless the part is a transceiver. If the transceiver has an output enable pin, then it will disable the outputs section of the part when asserted. This will not disable the input section of the IOs so they cannot float when disabled.

#### 8.4.2 Layout Example



**图 8-3. Layout Diagram**

## 9 Device and Documentation Support

### 9.1 接收文档更新通知

要接收文档更新通知，请导航至 [ti.com](https://www.ti.com) 上的器件产品文件夹。点击 [通知](#) 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。

### 9.2 支持资源

[TI E2E™ 中文支持论坛](#) 是工程师的重要参考资料，可直接从专家处获得快速、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，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](#)。

### 9.3 Trademarks

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

### 9.4 静电放电警告



静电放电 (ESD) 会损坏这个集成电路。德州仪器 (TI) 建议通过适当的预防措施处理所有集成电路。如果不遵守正确的处理和安装程序，可能会损坏集成电路。

ESD 的损坏小至导致微小的性能降级，大至整个器件故障。精密的集成电路可能更容易受到损坏，这是因为非常细微的参数更改都可能会导致器件与其发布的规格不相符。

### 9.5 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。

## 10 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 P (April 2024) to Revision Q (July 2024)	Page
• Updated thermal values for PW package from RθJA = 103.3 to 116.8, RθJC(top) = 37.8 to 58.5, RθJB = 54.3 to 78.7, ΨJT = 2.9 to 12.6, ΨJB = 53.8 to 77.9, RθJC(bot) = N/A, all values in °C/W .....	5

Changes from Revision O (July 2014) to Revision P (April 2024)	Page
• Moved storage temperature from <i>Handling Ratings</i> table to <i>Absolute Maximum Ratings</i> table.....	4
• Changed Handling Ratings table to ESD Ratings table.....	4
• Added temperature range column labels in Electrical Characteristics table.....	5
• Added temperature range column labels in Timing Requirements table.....	5
• Changed t <sub>PLH</sub> and t <sub>PHL</sub> to be t <sub>pd</sub> , t <sub>PZH</sub> and t <sub>PZL</sub> to be t <sub>en</sub> , and t <sub>PLZ</sub> and t <sub>PHZ</sub> to be t <sub>dis</sub> .....	6
• Changed <i>Switching Characteristics</i> table to be two tables separating military and catalog device characteristics.....	6
• Changed parameter measurement information section images and tables to improve clarity and update formatting.....	7

## 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
5962-9685501QRA	ACTIVE	CDIP	J	20	20	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9685501QR A SNJ54AHCT573J	<a href="#">Samples</a>
5962-9685501QSA	ACTIVE	CFP	W	20	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9685501QS A SNJ54AHCT573W	<a href="#">Samples</a>
SN74AHCT573DBR	ACTIVE	SSOP	DB	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	HB573	<a href="#">Samples</a>
SN74AHCT573DGVR	ACTIVE	TVSOP	DGV	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	HB573	<a href="#">Samples</a>
SN74AHCT573DWR	ACTIVE	SOIC	DW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	AHCT573	<a href="#">Samples</a>
SN74AHCT573N	ACTIVE	PDIP	N	20	20	RoHS & Green	NIPDAU	N / A for Pkg Type	-40 to 125	SN74AHCT573N	<a href="#">Samples</a>
SN74AHCT573PWR	ACTIVE	TSSOP	PW	20	2000	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 125	HB573	<a href="#">Samples</a>
SN74AHCT573PWRE4	ACTIVE	TSSOP	PW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	HB573	<a href="#">Samples</a>
SN74AHCT573PWRG4	ACTIVE	TSSOP	PW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	HB573	<a href="#">Samples</a>
SNJ54AHCT573J	ACTIVE	CDIP	J	20	20	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9685501QR A SNJ54AHCT573J	<a href="#">Samples</a>
SNJ54AHCT573W	ACTIVE	CFP	W	20	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9685501QS A SNJ54AHCT573W	<a href="#">Samples</a>

(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.

**OBSELETE:** 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  $\leq 1000$ ppm threshold. Antimony trioxide based flame retardants must also meet the  $\leq 1000$ 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 SN54AHCT573, SN74AHCT573 :**

- Catalog : [SN74AHCT573](#)
- Military : [SN54AHCT573](#)

NOTE: Qualified Version Definitions:

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

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