TEXAS INSTRUMENTS

Data sheet acquired from Harris Semiconductor SCHS144C

November 1997 - Revised September 2003

Features

- Three-State Outputs
- Separate Output Enable Inputs
- Fanout (Over Temperature Range)
 - Standard Outputs..... 10 LSTTL Loads
 - Bus Driver Outputs 15 LSTTL Loads
- Wide Operating Temperature Range ... -55°C to 125°C
- Balanced Propagation Delay and Transition Times
- Significant Power Reduction Compared to LSTTL Logic ICs
- HC Types
 - 2V to 6V Operation
 - High Noise Immunity: N_{IL} = 30%, N_{IH} = 30% of V_{CC} at V_{CC} = 5V
- HCT Types
 - 4.5V to 5.5V Operation
 - Direct LSTTL Input Logic Compatibility, V_{IL}= 0.8V (Max), V_{IH} = 2V (Min)
 - CMOS Input Compatibility, I_I \leq 1µA at V_{OL}, V_{OH}

CD54HC126, CD74HC126, CD54HCT126, CD74HCT126

High-Speed CMOS Logic Quad Buffer, Three-State

Description

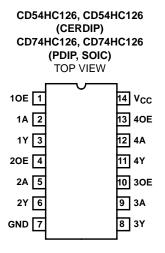
The 'HC126 and 'HCT126 contain four independent threestate buffers, each having its own output enable input, which when "low" puts the output in the high-impedance state.

Ordering Information

PART NUMBER	TEMP. RANGE (^o C)	PACKAGE			
CD54HC126F3A	-55 to 125	14 Ld CERDIP			
CD54HCT126F3A	-55 to 125	14 Ld CERDIP			
CD74HC126E	-55 to 125	14 Ld PDIP			
CD74HC126M	-55 to 125	14 Ld SOIC			
CD74HC126MT	-55 to 125	14 Ld SOIC			
CD74HC126M96	-55 to 125	14 Ld SOIC			
CD74HCT126E	-55 to 125	14 Ld PDIP			
CD74HCT126M	-55 to 125	14 Ld SOIC			
CD74HCT126MT	-55 to 125	14 Ld SOIC			
CD74HCT126M96	-55 to 125	14 Ld SOIC			

NOTE: When ordering, use the entire part number. The suffix 96 denotes tape and reel. The suffix T denotes a small-quantity reel of 250.

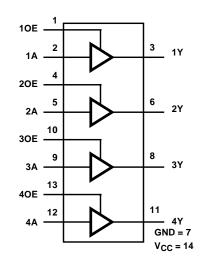
Pinout



CAUTION: These devices are sensitive to electrostatic discharge. Users should follow proper IC Handling Procedures.

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Functional Diagram



TRUTH TABLE

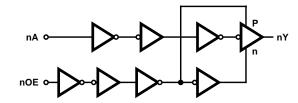
INP	INPUTS					
nA	nOE	nY				
н	Н	Н				
L	Н	L				
X	L	Z				

H= High Voltage Level

L= Low Voltage Level X= Don't Care

Z= High Impedance, OFF State

Logic Diagram



Absolute Maximum Ratings

DC Supply Voltage, V _{CC}
For $V_{l} < -0.5V$ or $V_{l} > V_{CC} + 0.5V$ ±20mA
DC Output Diode Current, I _{OK}
For $V_O < -0.5V$ or $V_O > V_{CC} + 0.5V$
DC Drain Current, per Output, I _O
For -0.5V < V _O < V _{CC} + 0.5V±35mA
DC Output Source or Sink Current per Output Pin, I _O
For $V_0 > -0.5V$ or $V_0 < V_{CC} + 0.5V$ ±25mA
DC V _{CC} or Ground Current, I _{CC} ±70mA

Operating Conditions

Temperature Range (T_A)
Supply Voltage Range, V _{CC}
HC Types
HCT Types4.5V to 5.5V
DC Input or Output Voltage, VI, VO 0V to VCC
Input Rise and Fall Time
2V
4.5V 500ns (Max)
6V

Thermal Information

Thermal Resistance (Typical, Note 1)	θ _{JA} (^o C/W)
E (PDIP) Package	80
M (SOIC) Package	86
Maximum Junction Temperature	150 ⁰ C
Maximum Storage Temperature Range	65 ⁰ C to 150 ⁰ C
Maximum Lead Temperature (Soldering 10s)	
(SOIC - Lead Tips Only)	

CAUTION: Stresses above those listed in "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress only rating and operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not implied.

NOTE:

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

DC Electrical Specifications

		TE: CONDI			25 ⁰ C			-40°C TO 85°C		-55°C TO 125°C		
PARAMETER	SYMBOL	V _I (V)	I _O (mA)	V _{CC} (V)	MIN	ТҮР	MAX	MIN	MAX	MIN	MAX	UNITS
HC TYPES										-		
High Level Input	V _{IH}	-	-	2	1.5	-	-	1.5	-	1.5	-	V
Voltage				4.5	3.15	-	-	3.15	-	3.15	-	V
				6	4.2	-	-	4.2	-	4.2	-	V
Low Level Input	V _{IL}	-	-	2	-	-	0.5	-	0.5	-	0.5	V
Voltage				4.5	-	-	1.35	-	1.35	-	1.35	V
				6	-	-	1.8	-	1.8	-	1.8	V
High Level Output	V _{OH}	V _{IH} or	-0.02	2	1.9	-	-	1.9	-	1.9	-	V
Voltage CMOS Loads		VIL	-0.02	4.5	4.4	-	-	4.4	-	4.4	-	V
			-0.02	6	5.9	-	-	5.9	-	5.9	-	V
High Level Output			-6	4.5	3.98	-	-	3.84	-	3.7	-	V
Voltage TTL Loads			-7.8	6	5.48	-	-	5.34	-	5.2	-	V
Low Level Output	V _{OL}	V _{IH} or	0.02	2	-	-	0.1	-	0.1	-	0.1	V
Voltage CMOS Loads		V _{IL}	0.02	4.5	-	-	0.1	-	0.1	-	0.1	V
			0.02	6	-	-	0.1	-	0.1	-	0.1	V
Low Level Output	7		6	4.5	-	-	0.26	-	0.33	-	0.4	V
Voltage TTL Loads			7.8	6	-	-	0.26	-	0.33	-	0.4	V
Input Leakage Current	lı	V _{CC} or GND	-	6	-	-	±0.1	-	±1	-	±1	μA

CD54HC126, CD74HC126, CD54HCT126, CD74HCT126

		TEST CONDITIONS			25 ⁰ C			-40 ⁰ C TO 85 ⁰ C		-55°C TO 125°C		
PARAMETER	SYMBOL	V _I (V)	I _O (mA)	V _{CC} (V)	MIN	ТҮР	MAX	MIN	MAX	MIN	MAX	
Quiescent Device Current	ICC	V _{CC} or GND	0	6	-	-	8	-	80	-	160	μA
Three-State Leakage Current	I _{OZ}	V _{IL} or V _{IH}	-	6	-	-	±0.5	-	±5	-	±10	μA
HCT TYPES	•											
High Level Input Voltage	VIH	-	-	4.5 to 5.5	2	-	-	2	-	2	-	V
Low Level Input Voltage	VIL	-	-	4.5 to 5.5	-	-	0.8	-	0.8	-	0.8	V
High Level Output Voltage CMOS Loads	V _{OH}	V _{IH} or V _{IL}	-0.02	4.5	4.4	-	-	4.4	-	4.4	-	V
High Level Output Voltage TTL Loads			-6	4.5	3.98	-	-	3.84	-	3.7	-	V
Low Level Output Voltage CMOS Loads	V _{OL}	V _{IH} or V _{IL}	0.02	4.5	-	-	0.1	-	0.1	-	0.1	V
Low Level Output Voltage TTL Loads			6	4.5	-	-	0.26	-	0.33	-	0.4	V
Input Leakage Current	lı	V _{CC} to GND	0	5.5	-	-	±0.1	-	±1	-	±1	μA
Quiescent Device Current	ICC	V _{CC} or GND	0	5.5	-	-	8	-	80	-	160	μA
Additional Quiescent Device Current Per Input Pin: 1 Unit Load	∆I _{CC} (Note 2)	V _{CC} -2.1	-	4.5 to 5.5	-	100	360	-	450	-	490	μΑ
Three-State Leakage Current	loz	V _{IL} or V _{IH}	-	5.5	-	-	±0.5	-	±5	-	±10	μA

NOTE:

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

HCT Input Loading Table

INPUT	UNIT LOADS
nA, nOE	1

NOTE: Unit Load is ΔI_{CC} limit specified in DC Electrical Specifications table, e.g., $360\mu A$ max at $25^{\circ}C$.

CD54HC126, CD74HC126, CD54HCT126, CD74HCT126

Switching Specifications Input tr, tf = 6ns

		TEST		25	°C	-40°C TO 85°C	-55°C TO 125°C	
PARAMETER	SYMBOL	CONDITIONS	V _{CC} (V)	TYP	МАХ	МАХ	MAX	UNITS
HC TYPES								
Propagation Delay Data	t _{PLH} , t _{PHL}	C _L = 50pF	2	-	100	125	150	ns
to Outputs			4.5	-	20	25	30	ns
		C _L = 15pF	5	8	-	-	-	ns
		CL = 50pF	6	-	17	21	36	ns
Enable Delay Time	t _{PZL} , t _{PZH}	C _L = 50pF	2	-	125	155	190	ns
			4.5	-	25	31	38	ns
		C _L = 15pF	5	10	-	-	-	ns
		CL = 50pF	6	-	21	26	32	ns
Disabling Delay Time	t _{PLZ} , t _{PHZ}	CL = 50pF	2	-	125	155	190	ns
		C _L = 50pF	4.5	-	25	31	38	ns
		C _L = 15pF	5	10	-	-	-	ns
		CL = 50pF	6	-	21	26	32	ns
Output Transition Times	t _{TLH} , t _{THL}	C _L = 50pF	2	-	60	75	90	ns
			4.5	-	12	15	18	ns
			6	-	10	13	15	ns
Input Capacitance	CI	-	-	-	10	10	10	pF
Three-State Output Capacitance	CO	-	-	-	20	20	20	pF
Power Dissipation Capacitance (Notes 3, 4)	C _{PD}	-	5	30	-	-	-	pF
HCT TYPES								
Propagation Delay Time	t _{PLH} , t _{PHL}	$C_L = 50 pF$	4.5	-	24	30	36	ns
to Outputs		C _L = 15pF	5	9	-	-	-	ns
Output Enable Time	t _{PZL} , t _{PZH}	C _L = 50pF	4.5	-	25	31	38	ns
		C _L = 15pF	5	10	-	-	-	ns
Output Disabling Time	t _{PLZ} , t _{PHZ}	C _L = 50pF	4.5	-	28	35	42	ns
		C _L = 15pF	5	11	-	-	-	ns
Output Transition Times	t _{TLH} , t _{THL}	C _L = 50pF	4.5	-	12	15	18	ns
Input Capacitance	Cl	-	-	-	10	10	10	pF
Three-State Output Capacitance	CO	-	-	-	20	20	20	pF
Power Dissipation Capacitance (Notes 3, 4)	C _{PD}	-	5	36	-	-	-	pF

NOTES:

3. C_{PD} is used to determine the dynamic power consumption, per multiplexer. 4. $P_D = V_{CC}^2 f_i (C_{PD} + C_L)$ where f_i = Input Frequency, C_L = Output Load Capacitance, V_{CC} = Supply Voltage.

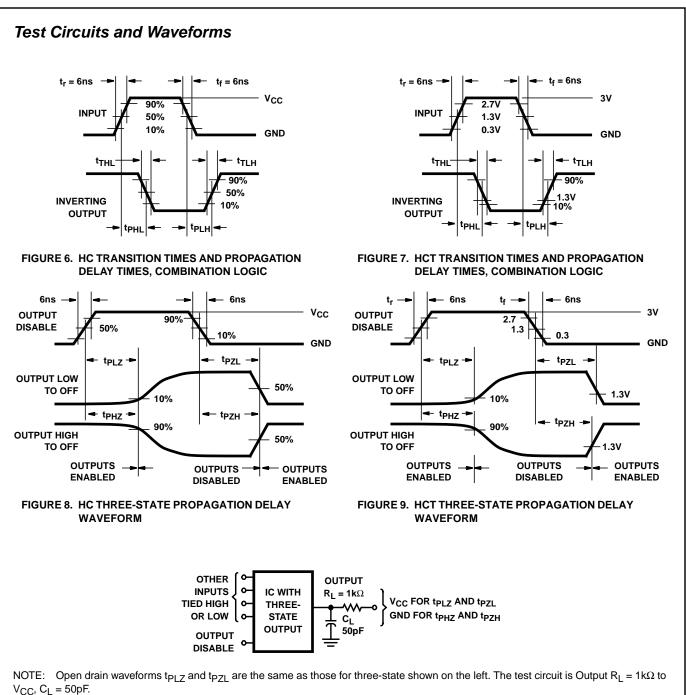


FIGURE 10. HC AND HCT THREE-STATE PROPAGATION DELAY TEST CIRCUIT



24-Sep-2015

PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
5000 0005404MOA				4.4		(2)	(6)	(3)		(4/5)	
5962-9065101MCA	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-9065101MC A	Samples
										CD54HCT126F3A	
CD54HC126F3A	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-8684801CA	Samples
										CD54HC126F3A	Samples
CD54HCT126F3A	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-9065101MC	Samples
										A CD54HCT126F3A	
CD74HC126E	ACTIVE	PDIP	N	14	25	Pb-Free	CU NIPDAU	N / A for Pkg Type	-55 to 125	CD74HC126E	Correct loss
						(RoHS)		0 71			Samples
CD74HC126EE4	ACTIVE	PDIP	Ν	14	25	Pb-Free	CU NIPDAU	N / A for Pkg Type	-55 to 125	CD74HC126E	Samples
						(RoHS)					
CD74HC126M	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	HC126M	Samples
CD74HC126M96	ACTIVE	SOIC	D	14	2500	Green (RoHS	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	HC126M	
00741101201090	ACTIVE	5010	U	14	2000	& no Sb/Br)		Level-1-200C-ONLIN	-55 10 125	110120101	Samples
CD74HC126MG4	ACTIVE	SOIC	D	14	50	Green (RoHS	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	HC126M	Samples
						& no Sb/Br)					Samples
CD74HC126MT	ACTIVE	SOIC	D	14	250	Green (RoHS	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	HC126M	Samples
						& no Sb/Br)					
CD74HCT126E	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-55 to 125	CD74HCT126E	Samples
CD74HCT126EE4	ACTIVE	PDIP	N	14	25	Pb-Free	CU NIPDAU	N / A for Pkg Type	-55 to 125	CD74HCT126E	
	-				-	(RoHS)		5 51			Samples
CD74HCT126M	ACTIVE	SOIC	D	14	50	Green (RoHS	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	HCT126M	Samples
						& no Sb/Br)					Campion
CD74HCT126M96	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	HCT126M	Samples
CD74HCT126M96E4	ACTIVE	SOIC	D	14	2500	Green (RoHS	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	HCT126M	
CD74HC1120W90E4	ACTIVE	3010	D	14	2500	& no Sb/Br)	CUNIPDAU	Level-1-200C-OINLIM	-55 10 125		Samples
CD74HCT126M96G4	ACTIVE	SOIC	D	14	2500	, Green (RoHS	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	HCT126M	Second law
						& no Sb/Br)					Samples
CD74HCT126MG4	ACTIVE	SOIC	D	14	50	Green (RoHS	CU NIPDAU	Level-1-260C-UNLIM	-55 to 125	HCT126M	Samples
						& no Sb/Br)					



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(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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OTHER QUALIFIED VERSIONS OF CD54HC126, CD54HCT126, CD74HC126, CD74HCT126 :

- Catalog: CD74HC126, CD74HCT126
- Military: CD54HC126, CD54HCT126



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PACKAGE OPTION ADDENDUM

24-Sep-2015

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





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*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
CD74HC126M96	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
CD74HC126MT	SOIC	D	14	250	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
CD74HCT126M96	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1

TEXAS INSTRUMENTS

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PACKAGE MATERIALS INFORMATION

2-Sep-2015



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
CD74HC126M96	SOIC	D	14	2500	367.0	367.0	38.0
CD74HC126MT	SOIC	D	14	250	367.0	367.0	38.0
CD74HCT126M96	SOIC	D	14	2500	367.0	367.0	38.0

J (R-GDIP-T**) 14 LEADS SHOWN

CERAMIC DUAL IN-LINE PACKAGE



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**)

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).
- \triangle The 20 pin end lead shoulder width is a vendor option, either half or full width.



D (R-PDSO-G14)

PLASTIC SMALL OUTLINE



NOTES: 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 AB.





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.



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