

See mechanical drawings for dimensions.

#### description/ordering information

The SN74AHCT1G125 is a single bus buffer gate/line driver with 3-state output. The output is disabled when the output-enable ( $\overline{OE}$ ) input is high. When  $\overline{OE}$  is low, true data is passed from the A input to the Y output.

To ensure the high-impedance state during power up or power down,  $\overline{OE}$  should be tied to V<sub>CC</sub> through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

TA	PACKAGE	±†	ORDERABLE PART NUMBER	TOP-SIDE MARKING <sup>‡</sup>					
		Reel of 3000	SN74AHCT1G125DBVR	Doc					
	SOT (SOT-23) – DBV	Reel of 250	SN74AHCT1G125DBVT	B25_					
–40°C to 85°C	00T (00 70) DOK	Reel of 3000	SN74AHCT1G125DCKR	DM					
	SOT (SC-70) – DCK	Reel of 250	SN74AHCT1G125DCKT	BM_					
	SOT (SOT-553) – DRL	Reel of 4000	SN74AHCT1G125DRLR	BM_					

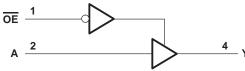
#### **ORDERING INFORMATION**

<sup>†</sup> Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

<sup>‡</sup>The actual top-side marking has one additional character that designates the assembly/test site.

FUNCTION TABLE						
INP	JTS	OUTPUT				
OE	Α	Y				
L	Н	Н				
L	L	L				
Н	Х	Z				

## logic diagram (positive logic)





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### absolute maximum ratings over operating free-air temperature range (unless otherwise noted)<sup>†</sup>

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<sup>†</sup> 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.

NOTES: 1. The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

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

#### recommended operating conditions (see Note 3)

		MIN	MAX	UNIT
VCC	Supply voltage	4.5	5.5	V
VIH	High-level input voltage	2		V
VIL	Low-level input voltage		0.8	V
VI	Input voltage	0	5.5	V
Vo	Output voltage	0	VCC	V
ЮН	High-level output current		-8	mA
IOL	Low-level output current		8	mA
$\Delta t/\Delta v$	Input transition rise or fall rate		20	ns/V
Т <sub>А</sub>	Operating free-air temperature	-40	85	°C

NOTE 3: 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, literature number SCBA004.

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

		N	T,	ן = 25°C	;			
PARAMETER	TEST CONDITIONS	VCC	MIN	TYP	MAX	MIN	MAX	UNIT
Maria	I <sub>OH</sub> = -50 μA		4.4	4.5		4.4		V
VOH	$I_{OH} = -8 \text{ mA}$	4.5 V	3.94			3.8		V
Max	I <sub>OL</sub> = 50 μA	4.5 V			0.1		0.1	V
V <sub>OL</sub>	I <sub>OL</sub> = 8 mA	4.5 V			0.36		0.44	v
lj	$V_{I} = 5.5 V \text{ or GND}$	0 V to 5.5 V			±0.1		±1	μΑ
I <sub>OZ</sub>	$V_O = V_{CC}$ or GND	5.5 V			±0.25		±2.5	μΑ
ICC	$V_{I} = V_{CC} \text{ or } GND, \qquad I_{O} = 0$	5.5 V			1		10	μΑ
$\Delta I_{CC}^{\ddagger}$	One input at 3.4 V, Other input at $V_{CC}$ or GND	5.5 V			1.35		1.5	mA
Ci	$V_I = V_{CC}$ or GND	5 V		4	10		10	pF
Co	$V_O = V_{CC}$ or GND	5 V		10				pF

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



# switching characteristics over recommended operating free-air temperature range, $V_{CC}$ = 5 V $\pm$ 0.5 V (unless otherwise noted) (see Figure 1)

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DADAMETED	FROM					;			
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN	MAX	UNIT
<sup>t</sup> PLH		Y	0. 45 - 5		3.8	5.5	1	6.5	
<sup>t</sup> PHL	A	Ŷ	C <sub>L</sub> = 15 pF		3.8	5.5	1	6.5	ns
<sup>t</sup> PZH	OE	Y	0. 45 - 5		3.6	5.1	1	6	
<sup>t</sup> PZL	ÛE	Ŷ	C <sub>L</sub> = 15 pF		3.6	5.1	1	6	ns
<sup>t</sup> PHZ	OE	Y	C <sub>L</sub> = 15 pF		4.6	6.8	1	8	ns
<sup>t</sup> PLZ	UE	T	CL = 15 pr		4.6	6.8	1	8	115
<sup>t</sup> PLH		X	0 50 - 5		5.3	7.5	1	8.5	
<sup>t</sup> PHL	A	Y	C <sub>L</sub> = 50 pF		5.3	7.5	1	8.5	ns
<sup>t</sup> PZH	OE	X	0 50 5		5.1	7.1	1	8	
<sup>t</sup> PZL	UE	Y	C <sub>L</sub> = 50 pF		5.1	7.1	1	8	ns
<sup>t</sup> PHZ	OE	Y	$C_{\rm L} = 50  \rm pE$		6.1	8.8	1	10	20
<sup>t</sup> PLZ		ŕ	CL = 50 pF		6.1	8.8	1	10	ns

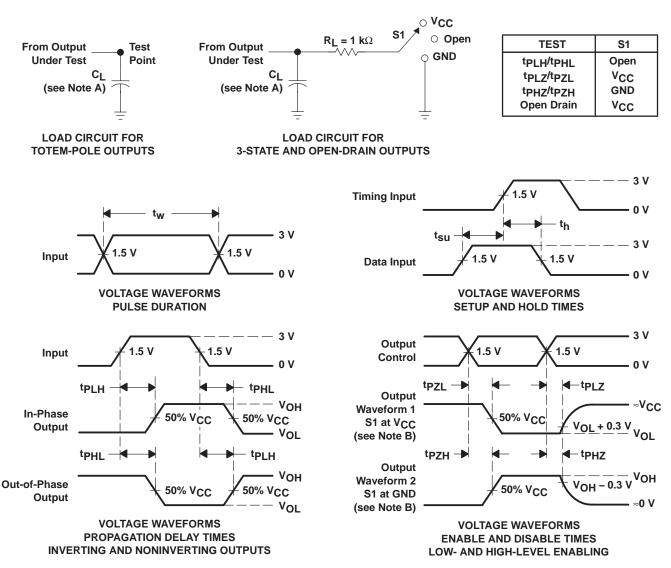
## operating characteristics, V\_{CC} = 5 V, T<sub>A</sub> = 25°C

	PARAMETER	TEST CO	ONDITIONS	TYP	UNIT
Cpd	Power dissipation capacitance	No load,	f = 1 MHz	14	pF



SN74AHCT1G125 SINGLE BUS BUFFER GATE WITH 3-STATE OUTPUT

SCLS378L - AUGUST 1997 - REVISED JUNE 2005



PARAMETER MEASUREMENT INFORMATION

NOTES: A. C<sub>L</sub> includes probe and jig capacitance.

- B. Waveform 1 is for an output with internal conditions such that the output is low, except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high, except when disabled by the output control.
- C. All input pulses are supplied by generators having the following characteristics: PRR  $\leq$  1 MHz, Z<sub>O</sub> = 50  $\Omega$ , t<sub>r</sub>  $\leq$  3 ns, t<sub>f</sub>  $\leq$  3 ns.
- D. The outputs are measured one at a time, with one input transition per measurement.
- E. All parameters and waveforms are not applicable to all devices.

#### Figure 1. Load Circuit and Voltage Waveforms





20-Nov-2014

## **PACKAGING INFORMATION**

Orderable Device	Status	Package Type	Package	Pins	Package	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
	(1)		Drawing		Qty	(2)	(6)	(3)		(4/5)	
74AHCT1G125DBVRE4	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(B253 ~ B25G ~ B25J ~ B25L ~ B25S)	Samples
74AHCT1G125DBVRG4	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(B253 ~ B25G ~ B25J ~ B25L ~ B25S)	Samples
74AHCT1G125DBVTE4	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(B253 ~ B25G ~ B25L ~ B25S)	Samples
74AHCT1G125DBVTG4	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(B253 ~ B25G ~ B25L ~ B25S)	Samples
74AHCT1G125DCKRG4	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(BM3 ~ BMG ~ BMJ ~ BML ~ BMS)	Samples
74AHCT1G125DCKTE4	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(BM3 ~ BMG ~ BML ~ BMS)	Samples
74AHCT1G125DCKTG4	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(BM3 ~ BMG ~ BML ~ BMS)	Samples
74AHCT1G125DRLRG4	ACTIVE	SOT	DRL	5	4000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(BMB ~ BMS)	Samples
SN74AHCT1G125DBVR	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(B253 ~ B25G ~ B25J ~ B25L ~ B25S)	Samples
SN74AHCT1G125DBVT	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(B253 ~ B25G ~ B25L ~ B25S)	Samples
SN74AHCT1G125DCKR	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(BM3 ~ BMG ~ BMJ ~ BML ~ BMS)	Samples
SN74AHCT1G125DCKT	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(BM3 ~ BMG ~ BML ~ BMS)	Samples
SN74AHCT1G125DRLR	ACTIVE	SOT	DRL	5	4000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	(BMB ~ BMS)	Samples

<sup>(1)</sup> 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.



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<sup>(2)</sup> 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)

<sup>(3)</sup> MSL, Peak Temp. - The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

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

(<sup>5)</sup> 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.

<sup>(6)</sup> 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 SN74AHCT1G125 :

Automotive: SN74AHCT1G125-Q1

NOTE: Qualified Version Definitions:

• Automotive - Q100 devices qualified for high-reliability automotive applications targeting zero defects

## PACKAGE MATERIALS INFORMATION

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## TAPE AND REEL INFORMATION





## QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



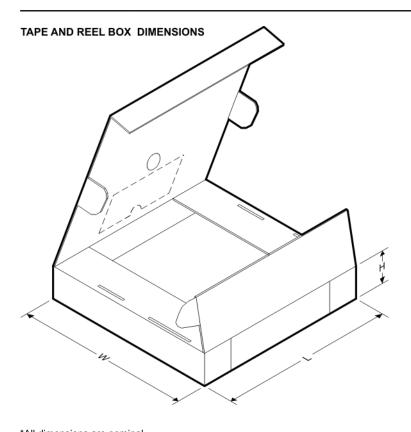
Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74AHCT1G125DBVR	SOT-23	DBV	5	3000	180.0	9.2	3.17	3.23	1.37	4.0	8.0	Q3
SN74AHCT1G125DBVR	SOT-23	DBV	5	3000	178.0	9.2	3.3	3.2	1.55	4.0	8.0	Q3
SN74AHCT1G125DBVR	SOT-23	DBV	5	3000	180.0	8.4	3.23	3.17	1.37	4.0	8.0	Q3
SN74AHCT1G125DBVT	SOT-23	DBV	5	250	178.0	9.0	3.23	3.17	1.37	4.0	8.0	Q3
SN74AHCT1G125DBVT	SOT-23	DBV	5	250	178.0	9.2	3.3	3.2	1.55	4.0	8.0	Q3
SN74AHCT1G125DCKR	SC70	DCK	5	3000	180.0	9.2	2.3	2.55	1.2	4.0	8.0	Q3
SN74AHCT1G125DCKR	SC70	DCK	5	3000	178.0	9.2	2.4	2.4	1.22	4.0	8.0	Q3
SN74AHCT1G125DCKT	SC70	DCK	5	250	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
SN74AHCT1G125DCKT	SC70	DCK	5	250	180.0	9.2	2.3	2.55	1.2	4.0	8.0	Q3
SN74AHCT1G125DCKT	SC70	DCK	5	250	178.0	9.2	2.4	2.4	1.22	4.0	8.0	Q3
SN74AHCT1G125DRLR	SOT	DRL	5	4000	180.0	8.4	1.98	1.78	0.69	4.0	8.0	Q3
SN74AHCT1G125DRLR	SOT	DRL	5	4000	180.0	9.5	1.78	1.78	0.69	4.0	8.0	Q3

TEXAS INSTRUMENTS

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## PACKAGE MATERIALS INFORMATION

9-Apr-2014



*All dimensions are nominal							1
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AHCT1G125DBVR	SOT-23	DBV	5	3000	205.0	200.0	33.0
SN74AHCT1G125DBVR	SOT-23	DBV	5	3000	180.0	180.0	18.0
SN74AHCT1G125DBVR	SOT-23	DBV	5	3000	202.0	201.0	28.0
SN74AHCT1G125DBVT	SOT-23	DBV	5	250	180.0	180.0	18.0
SN74AHCT1G125DBVT	SOT-23	DBV	5	250	180.0	180.0	18.0
SN74AHCT1G125DCKR	SC70	DCK	5	3000	205.0	200.0	33.0
SN74AHCT1G125DCKR	SC70	DCK	5	3000	180.0	180.0	18.0
SN74AHCT1G125DCKT	SC70	DCK	5	250	180.0	180.0	18.0
SN74AHCT1G125DCKT	SC70	DCK	5	250	205.0	200.0	33.0
SN74AHCT1G125DCKT	SC70	DCK	5	250	180.0	180.0	18.0
SN74AHCT1G125DRLR	SOT	DRL	5	4000	202.0	201.0	28.0
SN74AHCT1G125DRLR	SOT	DRL	5	4000	184.0	184.0	19.0

DBV (R-PDSO-G5)

PLASTIC SMALL-OUTLINE PACKAGE



- A. All linear dimensions are in millimeters.
  - This drawing is subject to change without notice. Β.
  - Body dimensions do not include mold flash or protrusion. Mold flash and protrusion shall not exceed 0.15 per side. C.
  - D. Falls within JEDEC MO-178 Variation AA.



DBV (R-PDSO-G5)

PLASTIC SMALL OUTLINE



NOTES:

A. All linear dimensions are in millimeters.B. This drawing is subject to change without notice.

- C. Customers should place a note on the circuit board fabrication drawing not to alter the center solder mask defined pad.
- D. Publication IPC-7351 is recommended for alternate designs.
- E. 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. Example stencil design based on a 50% volumetric metal load solder paste. Refer to IPC-7525 for other stencil recommendations.



DCK (R-PDSO-G5)

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. Mold flash and protrusion shall not exceed 0.15 per side.
  - D. Falls within JEDEC MO-203 variation AA.



## LAND PATTERN DATA



NOTES:

- A. All linear dimensions are in millimeters.B. This drawing is subject to change without notice.
- C. Customers should place a note on the circuit board fabrication drawing not to alter the center solder mask defined pad.
- D. Publication IPC-7351 is recommended for alternate designs.
- E. 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. Example stencil design based on a 50% volumetric metal load solder paste. Refer to IPC-7525 for other stencil recommendations.



DRL (R-PDSO-N5)

PLASTIC SMALL OUTLINE



NOTES:

All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994. Α. B. This drawing is subject to change without notice.

🖄 Body dimensions do not include mold flash, interlead flash, protrusions, or gate burrs. Mold flash, interlead flash, protrusions, or gate burrs shall not exceed 0,15 per end or side.





DRL (R-PDSO-N5)

PLASTIC SMALL OUTLINE



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. Customers should contact their board fabrication site for minimum solder mask web tolerances between signal pads.
- E. Maximum stencil thickness 0,127 mm (5 mils). All linear dimensions are in millimeters.
- F. 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 stencil design considerations.
- G. Side aperture dimensions over-print land for acceptable area ratio > 0.66. Customer may reduce side aperture dimensions if stencil manufacturing process allows for sufficient release at smaller opening.



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