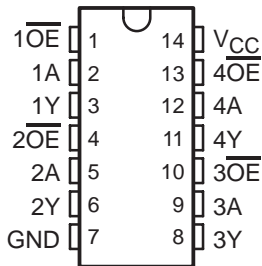


SN54LV125A, SN74LV125A QUADRUPLE BUS BUFFER GATES WITH 3-STATE OUTPUTS

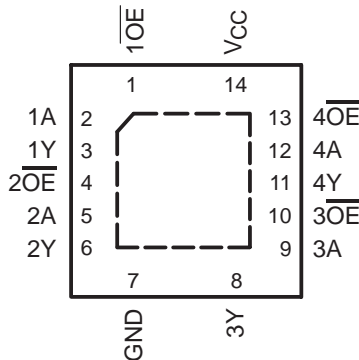
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- 2-V to 5.5-V V_{CC} Operation
- Max t_{pd} of 6 ns at 5 V
- Typical V_{OLP} (Output Ground Bounce) <0.8 V at $V_{CC} = 3.3$ V, $T_A = 25^\circ\text{C}$
- Typical V_{OHV} (Output V_{OH} Undershoot) >2.3 V at $V_{CC} = 3.3$ V, $T_A = 25^\circ\text{C}$
- Support Mixed-Mode Voltage Operation on All Ports
- I_{off} Supports Partial-Power-Down Mode Operation
- Latch-Up Performance Exceeds 250 mA Per JESD 17
- ESD Protection Exceeds JESD 22
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)
 - 1000-V Charged-Device Model (C101)

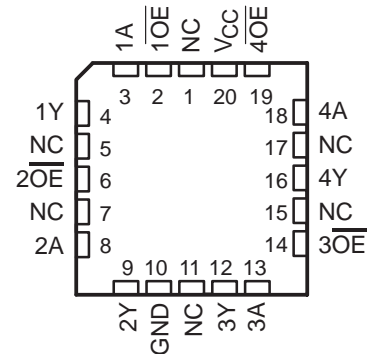
SN54LV125A ... J OR W PACKAGE
SN74LV125A ... D, DB, DGV, N, NS,
OR PW PACKAGE
(TOP VIEW)



SN74LV125A ... RGY PACKAGE
(TOP VIEW)



SN54LV125A ... FK PACKAGE
(TOP VIEW)



NC – No internal connection

description/ordering information

The 'LV125A quadruple bus buffer gates are designed for 2-V to 5.5-V V_{CC} operation.

These devices feature independent line drivers with 3-state outputs. Each output is disabled when the associated output-enable (\overline{OE}) input is high.

ORDERING INFORMATION

T_A	PACKAGE†		ORDERABLE PART NUMBER	TOP-SIDE MARKING
-40°C to 85°C	PDIP – N	Tube of 25	SN74LV125AN	SN74LV125AN
	QFN – RGY	Reel of 1000	SN74LV125ARGYR	LV125A
	SOIC – D	Tube of 50	SN74LV125AD	LV125A
		Reel of 2500	SN74LV125ADR	
	SOP – NS	Reel of 2000	SN74LV125ANSR	74LV125A
	SSOP – DB	Reel of 2000	SN74LV125ADBR	LV125A
	TSSOP – PW	Tube of 90	SN74LV125APW	LV125A
Reel of 2000		SN74LV125APWR		
Reel of 250		SN74LV125APWT		
TVSOP – DGV	Reel of 2000	SN74LV125ADGVR	LV125A	
-55°C to 125°C	CDIP – J	Tube of 25	SNJ54LV125AJ	SNJ54LV125AJ
	CFP – W	Tube of 150	SNJ54LV125AW	SNJ54LV125AW
	LCCC – FK	Tube of 55	SNJ54LV125AFK	SNJ54LV125AFK

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



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 **TEXAS
INSTRUMENTS**

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SN54LV125A, SN74LV125A QUADRUPLE BUS BUFFER GATES WITH 3-STATE OUTPUTS

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description/ordering information (continued)

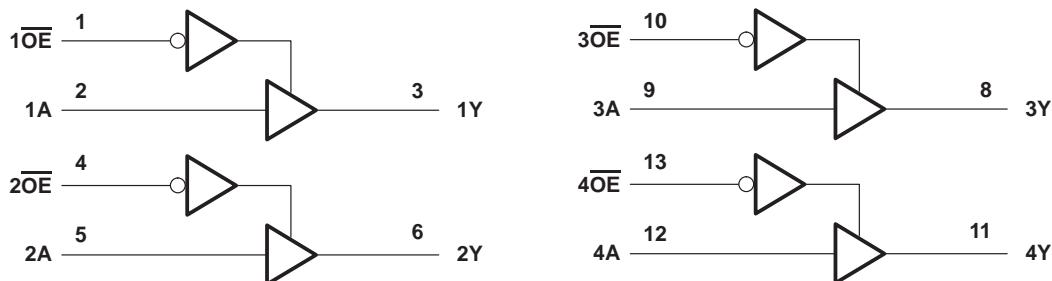
To ensure the high-impedance state during power up or power down, \overline{OE} should be tied to V_{CC} through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

These devices are fully specified for partial-power-down applications using I_{off} . The I_{off} circuitry disables the outputs, preventing damaging current backflow through the devices when they are powered down.

FUNCTION TABLE
(each buffer)

INPUTS		OUTPUT
\overline{OE}	A	Y
L	H	H
L	L	L
H	X	Z

logic diagram (positive logic)



Pin numbers shown are for the D, DB, DGV, J, N, NS, PW, RGY, and W packages.

SN54LV125A, SN74LV125A
QUADRUPLE BUS BUFFER GATES
WITH 3-STATE OUTPUTS

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absolute maximum ratings over operating free-air temperature range (unless otherwise noted)†

Supply voltage range, V_{CC}	-0.5 V to 7 V
Input voltage range, V_I (see Note 1)	-0.5 V to 7 V
Voltage range applied to any output in the high-impedance or power-off state, V_O (see Note 1)	-0.5 V to 7 V
Output voltage range, V_O (see Notes 1 and 2)	-0.5 V to $V_{CC} + 0.5$ V
Input clamp current, I_{IK} ($V_I < 0$)	-20 mA
Output clamp current, I_{OK} ($V_O < 0$)	-50 mA
Continuous output current, I_O ($V_O = 0$ to V_{CC})	± 35 mA
Continuous current through V_{CC} or GND	± 70 mA
Package thermal impedance, θ_{JA} (see Note 3): D package	86°C/W
(see Note 3): DB package	96°C/W
(see Note 3): DGV package	127°C/W
(see Note 3): N package	80°C/W
(see Note 3): NS package	76°C/W
(see Note 3): PW package	113°C/W
(see Note 4): RGY package	47°C/W
Storage temperature range, T_{stg}	-65°C to 150°C

† 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. This value is limited to 5.5 V maximum.
3. The package thermal impedance is calculated in accordance with JESD 51-7.
4. The package thermal impedance is calculated in accordance with JESD 51-5.



SN54LV125A, SN74LV125A QUADRUPLE BUS BUFFER GATES WITH 3-STATE OUTPUTS

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recommended operating conditions (see Note 5)

		SN54LV125A		SN74LV125A		UNIT	
		MIN	MAX	MIN	MAX		
V_{CC}	Supply voltage	2	5.5	2	5.5	V	
V_{IH}	High-level input voltage	$V_{CC} = 2\text{ V}$	1.5	1.5		V	
		$V_{CC} = 2.3\text{ V to }2.7\text{ V}$	$V_{CC} \times 0.7$	$V_{CC} \times 0.7$			
		$V_{CC} = 3\text{ V to }3.6\text{ V}$	$V_{CC} \times 0.7$	$V_{CC} \times 0.7$			
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$	$V_{CC} \times 0.7$	$V_{CC} \times 0.7$			
V_{IL}	Low-level input voltage	$V_{CC} = 2\text{ V}$	0.5	0.5		V	
		$V_{CC} = 2.3\text{ V to }2.7\text{ V}$	$V_{CC} \times 0.3$	$V_{CC} \times 0.3$			
		$V_{CC} = 3\text{ V to }3.6\text{ V}$	$V_{CC} \times 0.3$	$V_{CC} \times 0.3$			
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$	$V_{CC} \times 0.3$	$V_{CC} \times 0.3$			
V_I	Input voltage	0	5.5	0	5.5	V	
V_O	Output voltage	High or low state	0	V_{CC}	0	V_{CC}	V
		3-state	0	5.5	0	5.5	
I_{OH}	High-level output current	$V_{CC} = 2\text{ V}$		-50	-50	μA	
		$V_{CC} = 2.3\text{ V to }2.7\text{ V}$		-2	-2	mA	
		$V_{CC} = 3\text{ V to }3.6\text{ V}$		-8	-8		
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$		-16	-16		
I_{OL}	Low-level output current	$V_{CC} = 2\text{ V}$		50	50	μA	
		$V_{CC} = 2.3\text{ V to }2.7\text{ V}$		2	2	mA	
		$V_{CC} = 3\text{ V to }3.6\text{ V}$		8	8		
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$		16	16		
$\Delta t/\Delta v$	Input transition rise or fall rate	$V_{CC} = 2.3\text{ V to }2.7\text{ V}$		200	200	ns/V	
		$V_{CC} = 3\text{ V to }3.6\text{ V}$		100	100		
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$		20	20		
T_A	Operating free-air temperature	-55	125	-40	85	$^{\circ}\text{C}$	

NOTE 5: All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation. Refer to the TI application report, *Implications of Slow or Floating CMOS Inputs*, literature number SCBA004.

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SN54LV125A, SN74LV125A QUADRUPLE BUS BUFFER GATES WITH 3-STATE OUTPUTS

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

PARAMETER	TEST CONDITIONS	V _{CC}	SN54LV125A			SN74LV125A			UNIT
			MIN	TYP	MAX	MIN	TYP	MAX	
V _{OH}	I _{OH} = -50 μA	2 V to 5.5 V	V _{CC} -0.1			V _{CC} -0.1			V
	I _{OH} = -2 mA	2.3 V	2			2			
	I _{OH} = -8 mA	3 V	2.48			2.48			
	I _{OH} = -16 mA	4.5 V	3.8			3.8			
V _{OL}	I _{OL} = 50 μA	2 V to 5.5 V				0.1			V
	I _{OL} = 2 mA	2.3 V				0.4			
	I _{OL} = 8 mA	3 V				0.44			
	I _{OL} = 16 mA	4.5 V				0.55			
I _I	V _I = 5.5 V or GND	0 to 5.5 V	±1			±1			μA
I _{OZ}	V _O = V _{CC} or GND	5.5 V	±5			±5			μA
I _{CC}	V _I = V _{CC} or GND, I _O = 0	5.5 V	20			20			μA
I _{off}	V _I or V _O = 0 to 5.5 V	0	5			5			μA
C _i	V _I = V _{CC} or GND	3.3 V	1.6			1.6			pF
		5 V	1.6			1.6			

switching characteristics over recommended operating free-air temperature range, V_{CC} = 2.5 V ± 0.2 V (unless otherwise noted) (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	LOAD CAPACITANCE	T _A = 25°C			SN54LV125A		SN74LV125A		UNIT
				MIN	TYP	MAX	MIN	MAX	MIN	MAX	
t _{pd}	A	Y	C _L = 15 pF	6.8*	13*	13*	1*	15.5*	1	15.5	ns
t _{en}	$\overline{\text{OE}}$	Y		7*	13*	13*	1*	15.5*	1	15.5	
t _{dis}	$\overline{\text{OE}}$	Y		5.1*	14.7*	14.7*	1*	17*	1	17	
t _{pd}	A	Y	C _L = 50 pF	8.7	16.5	16.5	1	18.5	1	18.5	ns
t _{en}	$\overline{\text{OE}}$	Y		8.8	16.5	16.5	1	18.5	1	18.5	
t _{dis}	$\overline{\text{OE}}$	Y		7.3	18.2	18.2	1	20.5	1	20.5	
t _{sk(o)}						2				2	

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

switching characteristics over recommended operating free-air temperature range, V_{CC} = 3.3 V ± 0.3 V (unless otherwise noted) (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	LOAD CAPACITANCE	T _A = 25°C			SN54LV125A		SN74LV125A		UNIT
				MIN	TYP	MAX	MIN	MAX	MIN	MAX	
t _{pd}	A	Y	C _L = 15 pF	4.8*	8*	8*	1*	9.5*	1	9.5	ns
t _{en}	$\overline{\text{OE}}$	Y		4.8*	8*	8*	1*	9.5*	1	9.5	
t _{dis}	$\overline{\text{OE}}$	Y		4.1*	9.7*	9.7*	1*	11.5*	1	11.5	
t _{pd}	A	Y	C _L = 50 pF	6.1	11.5	11.5	1	13	1	13	ns
t _{en}	$\overline{\text{OE}}$	Y		6.2	11.5	11.5	1	13	1	13	
t _{dis}	$\overline{\text{OE}}$	Y		5.5	13.2	13.2	1	15	1	15	
t _{sk(o)}						1.5				1.5	

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

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SN54LV125A, SN74LV125A QUADRUPLE BUS BUFFER GATES WITH 3-STATE OUTPUTS

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

PARAMETER	FROM (INPUT)	TO (OUTPUT)	LOAD CAPACITANCE	$T_A = 25^\circ\text{C}$			SN54LV125A		SN74LV125A		UNIT
				MIN	TYP	MAX	MIN	MAX	MIN	MAX	
t_{pd}	A	Y	$C_L = 15\text{ pF}$	3.4*	5.5*	1*	6.5*	1	6.5	ns	
t_{en}	\overline{OE}	Y		3.4*	5.1*	1*	6*	1	6		
t_{dis}	\overline{OE}	Y		3.2*	6.8*	1*	8*	1	8		
t_{pd}	A	Y	$C_L = 50\text{ pF}$	4.3	7.5	1	8.5	1	8.5	ns	
t_{en}	\overline{OE}	Y		4.4	7.1	1	8	1	8		
t_{dis}	\overline{OE}	Y		4	8.8	1	10	1	10		
$t_{sk(o)}$						1			1		

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

noise characteristics, $V_{CC} = 3.3\text{ V}$, $C_L = 50\text{ pF}$, $T_A = 25^\circ\text{C}$ (see Note 6)

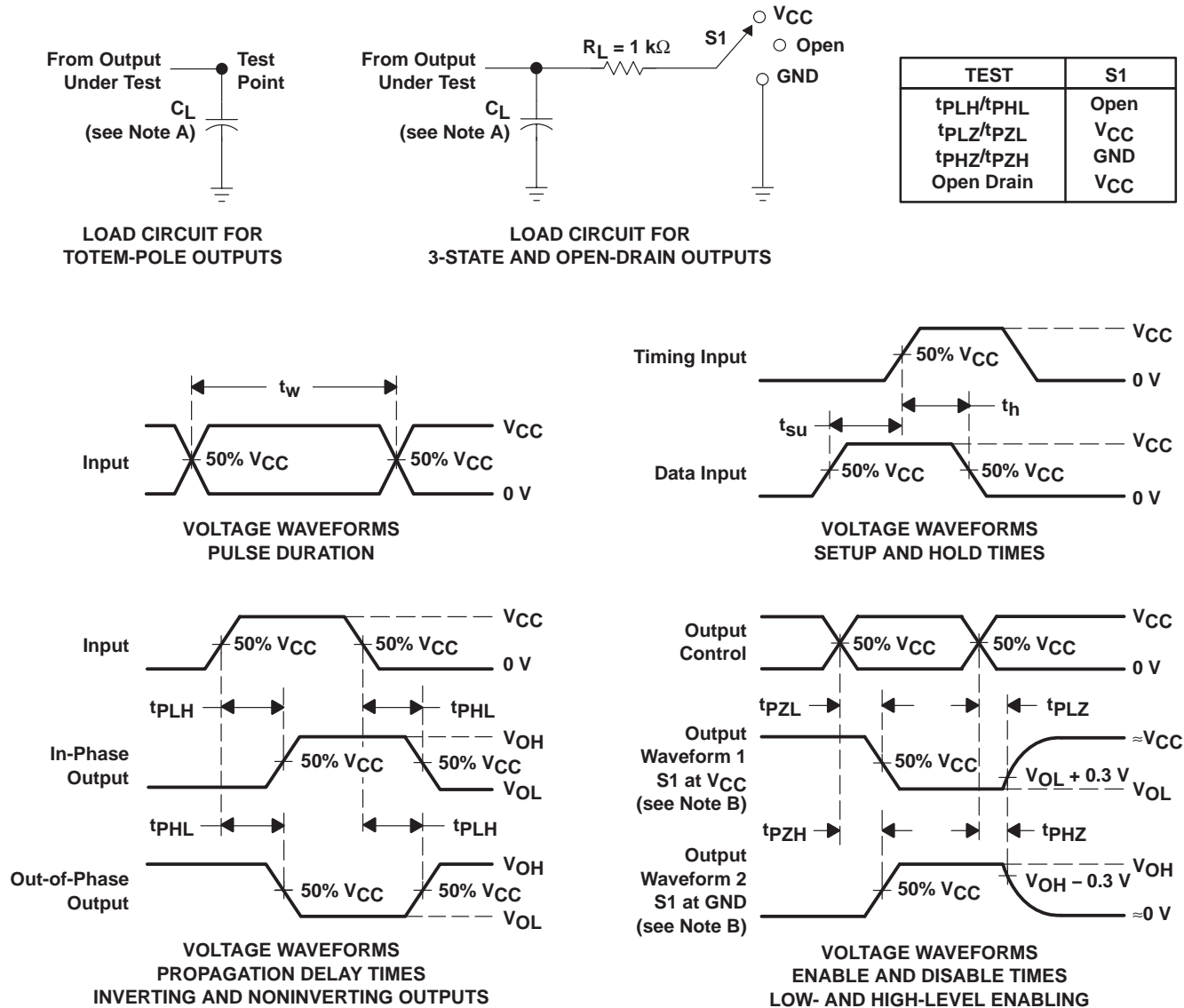
PARAMETER	SN74LV125A			UNIT
	MIN	TYP	MAX	
$V_{OL(P)}$ Quiet output, maximum dynamic V_{OL}		0.4	0.8	V
$V_{OL(V)}$ Quiet output, minimum dynamic V_{OL}		-0.3	-0.8	V
$V_{OH(V)}$ Quiet output, minimum dynamic V_{OH}		3		V
$V_{IH(D)}$ High-level dynamic input voltage	2.31			V
$V_{IL(D)}$ Low-level dynamic input voltage		0.99		V

NOTE 6: Characteristics are for surface-mount packages only.

operating characteristics, $T_A = 25^\circ\text{C}$

PARAMETER		TEST CONDITIONS	V_{CC}	TYP	UNIT
C_{pd} Power dissipation capacitance	Outputs enabled	$C_L = 50\text{ pF}$, $f = 10\text{ MHz}$	3.3 V	15.5	pF
			5 V	17.6	

PARAMETER MEASUREMENT INFORMATION



- NOTES:
- A. C_L 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: $PRR \leq 1\text{ MHz}$, $Z_O = 50\ \Omega$, $t_r \leq 3\text{ ns}$, $t_f \leq 3\text{ ns}$.
 - D. The outputs are measured one at a time, with one input transition per measurement.
 - E. t_{PLZ} and t_{PHZ} are the same as t_{dis} .
 - F. t_{PZL} and t_{PZH} are the same as t_{en} .
 - G. t_{PHL} and t_{PLH} are the same as t_{pd} .
 - H. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms

PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
SN74LV125AD	ACTIVE	SOIC	D	14	50	Pb-Free (RoHS)	CU NIPDAU	Level-2-260C-1 YEAR/ Level-1-235C-UNLIM
SN74LV125ADBLE	OBSOLETE	SSOP	DB	14		None	Call TI	Call TI
SN74LV125ADBR	ACTIVE	SSOP	DB	14	2000	Pb-Free (RoHS)	CU NIPDAU	Level-2-260C-1 YEAR/ Level-1-235C-UNLIM
SN74LV125ADGVR	ACTIVE	TVSOP	DGV	14	2000	Pb-Free (RoHS)	CU NIPDAU	Level-1-250C-UNLIM
SN74LV125ADR	ACTIVE	SOIC	D	14	2500	Pb-Free (RoHS)	CU NIPDAU	Level-2-260C-1 YEAR/ Level-1-235C-UNLIM
SN74LV125AN	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	Level-NC-NC-NC
SN74LV125ANSR	ACTIVE	SO	NS	14	2000	Pb-Free (RoHS)	CU NIPDAU	Level-2-260C-1 YEAR/ Level-1-235C-UNLIM
SN74LV125APW	ACTIVE	TSSOP	PW	14	90	Pb-Free (RoHS)	CU NIPDAU	Level-1-250C-UNLIM
SN74LV125APWLE	OBSOLETE	TSSOP	PW	14		None	Call TI	Call TI
SN74LV125APWR	ACTIVE	TSSOP	PW	14	2000	Pb-Free (RoHS)	CU NIPDAU	Level-1-250C-UNLIM
SN74LV125APWT	ACTIVE	TSSOP	PW	14	250	Pb-Free (RoHS)	CU NIPDAU	Level-1-250C-UNLIM
SN74LV125ARGYR	ACTIVE	QFN	RGY	14	1000	Pb-Free (RoHS)	CU NIPDAU	Level-2-260C-1 YEAR

⁽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 - May not be currently available - please check <http://www.ti.com/productcontent> for the latest availability information and additional product content details.

None: Not yet available Lead (Pb-Free).

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Green (RoHS & no Sb/Br): TI defines "Green" to mean "Pb-Free" and in addition, uses package materials that do not contain halogens, including bromine (Br) or antimony (Sb) above 0.1% of total product weight.

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

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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.

DGV (R-PDSO-G**)

PLASTIC SMALL-OUTLINE

24 PINS SHOWN



- 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, not to exceed 0,15 per side.
 D. Falls within JEDEC: 24/48 Pins – MO-153
 14/16/20/56 Pins – MO-194

MECHANICAL DATA

NS (R-PDSO-G**)

PLASTIC SMALL-OUTLINE PACKAGE

14-PINS SHOWN



- 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, not to exceed 0,15.

DB (R-PDSO-G**)

PLASTIC SMALL-OUTLINE

28 PINS SHOWN



- 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 not to exceed 0,15.
 D. Falls within JEDEC MO-150

PW (R-PDSO-G**)

PLASTIC SMALL-OUTLINE PACKAGE

14 PINS SHOWN



4040064/F 01/97

- 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 not to exceed 0,15.
 D. Falls within JEDEC MO-153

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