专业PCB打样**SN54AH®126出SN74AHC126** QUADRUPLE BUS BUFFER GATES WITH 3-STATE OUTPUTS

SCLS257L - DECEMBER 1995 - REVISED JULY 2003

- Operating Range 2-V to 5.5-V V_{CC}
- Latch-Up Performance Exceeds 250 mA Per JESD 17

description/ordering information

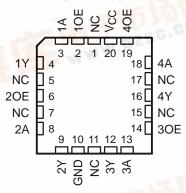
The 'AHC126 devices are quadruple bus buffer gates featuring independent line drivers with 3-state outputs. Each output is disabled when the associated output-enable (OE) input is low. When OE is high, the respective gate passes the data from the A input to its Y output.

To ensure the high-impedance state during power up or power down, OE should be tied to GND through a pulldown resistor; the minimum value of the resistor is determined by the current-sourcing capability of the driver.

SN54AHC126...J OR W PACKAGE SN74AHC126 . . . D, DB, DGV, N, NS, OR PW PACKAGE (TOP VIEW)



SN54AHC126 . . . FK PACKAGE (TOP VIEW)



NC - No internal connection

ORDERING INFORMATION

	NC – No internal connection								
	OR	DERING INFO	RMATION						
TA	PACKA	GE†	ORDERABLE PART NUMBER	TOP-SIDE MARKING					
100	PDIP – N	Tube	SN74AHC126N	SN74AHC126N					
	SOIC - D	Tube	SN74AHC126D	AHC126					
	3010 - 0	Tape and reel	SN74AHC126DR	Ancizo					
-40°C to 85°C	SOP – NS	Tape and reel	SN74AHC126NSR	AHC126					
-40 C to 85 C	SSOP – DB	Tape and reel	SN74AHC126DBR	HA126					
	TSSOP – PW	Tube	SN74AHC126PW	HA126					
	1330P - PW	Tape and reel	SN74AHC126PWR	TA120					
	TVSOP – DGV	Tape and reel	SN74AHC126DGVR	HA126					
–55°C to 125°C	CDIP – J	Tube	SNJ54AHC126J	SNJ54AHC126J					
	CFP – W	Tube	SNJ54AHC126W	SNJ54AHC126W					
	LCCC – FK	Tube	SNJ54AHC126FK	SNJ54AHC126FK					

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

Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

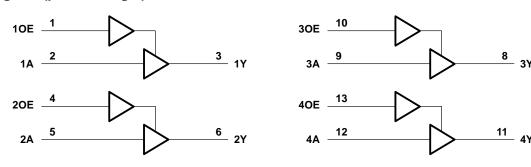


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FUNCTION TABLE (each buffer)

INP	JTS	OUTPUT
OE	Α	Y
Н	Н	Н
н	L	L
L	Χ	Z

logic diagram (positive logic)



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

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
Output voltage range, V _O (see Note 1)		. -0.5 V to V _{CC} + 0.5 V
Input clamp current, $I_{ K }(V_1 < 0)$		–20 mA
Output clamp current, IOK (VO < 0 or VO > VCO	c)	±20 mA
Continuous output current, I_O ($V_O = 0$ to V_{CC})	-	±25 mA
Continuous current through V _{CC} or GND		±50 mA
Package thermal impedance, θ _{JA} (see Note 2)	: D package	86°C/W
	DB package	96°C/W
	DGV package	127°C/W
	N package	80°C/W
	NS package	76°C/W
	PW package	113°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.} The package thermal impedance is calculated in accordance with JESD 51-7.

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recommended operating conditions (see Note 3)

			SN54A	HC126	SN74A	HC126	LINUT
			MIN	MAX	MIN	MAX	UNIT
Vcc	Supply voltage		2	5.5	2	5.5	V
		V _{CC} = 2 V	1.5		1.5		
٧ıH	High-level input voltage	V _{CC} = 3 V	2.1		2.1		V
		$V_{CC} = 5.5 \text{ V}$	3.85		3.85		
		V _{CC} = 2 V		0.5		0.5	
V_{IL}	Low-level input voltage	V _{CC} = 3 V		0.9		0.9	V
		V _{CC} = 5.5 V		1.65		1.65	
٧ _I	Input voltage	-	0	5.5	0	5.5	V
٧o	Output voltage		0	VCC	0	VCC	V
		V _{CC} = 2 V		-50		-50	μΑ
ІОН	High-level output current	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		-4		-4	mA
		$V_{CC} = 5 V \pm 0.5 V$		-8		-8	IIIA
		V _{CC} = 2 V		50		50	μΑ
lOL	Low-level output current	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		4		4	mA
		$V_{CC} = 5 V \pm 0.5 V$		8		8	IIIA
Δt/Δν	Input transition rise or fall rate	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		100		100	ns/V
ΔυΔν	Input transition rise or fall rate	$V_{CC} = 5 V \pm 0.5 V$		20		20	TIS/V
TA	Operating free-air temperature		-55	125	-40	85	°C

NOTE 3: 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.

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

DADAMETED	TEST CONDITIONS	V	T,	λ = 25°C	;	SN54AI	HC126	SN74Al	HC126	LINUT
PARAMETER	TEST CONDITIONS	VCC	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
		2 V	1.9	2		1.9		1.9		
	I _{OH} = -50 μA	3 V	2.9	3		2.9		2.9		
∨он		4.5 V	4.4	4.5		4.4		4.4		V
	I _{OH} = -4 mA	3 V	2.58			2.48		2.48		
	I _{OH} = -8 mA	4.5 V	3.94			3.8		3.8		
		2 V			0.1		0.1		0.1	
	I _{OL} = 50 μA	3 V			0.1		0.1		0.1	
VOL		4.5 V			0.1		0.1		0.1	V
	I _{OL} = 4 mA	3 V			0.36		0.5		0.44	
	I _{OL} = 8 mA	4.5 V			0.36		0.5		0.44	
ΙΙ	V _I = 5.5 V or GND	0 V to 5.5 V			±0.1		±1*		±1	μΑ
loz	$V_O = V_{CC}$ or GND	5.5 V			±0.25		±2.5		±2.5	μΑ
Icc	$V_I = V_{CC}$ or GND, $I_O = 0$	5.5 V			4		40		40	μΑ
Ci	$V_I = V_{CC}$ or GND	5 V		4	10				10	pF

 $^{^{\}star}$ On products compliant to MIL-PRF-38535, this parameter is not production tested at V_{CC} = 0 V.



SN54AHC126, SN74AHC126 QUADRUPLE BUS BUFFER GATES WITH 3-STATE OUTPUTS

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

PARAMETER	FROM	то	LOAD	T	չ = 25°C	;	SN54AI	HC126	SN74AI	HC126	UNIT
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
tPLH	А	Y	C _L = 15 pF		5.6*	8*	1*	9.5*	1	9.5	ns
^t PHL	A	ī	CL = 15 pr		5.6*	8*	1*	9.5*	1	9.5	115
^t PZH	OF.	Y	C 15 pE		5.4*	8*	1*	9.5*	1	9.5	ns
tPZL	OE	ī	C _L = 15 pF		5.4*	8*	1*	9.5*	1	9.5	115
^t PHZ	OE	Y	C _I = 15 pF		7*	9.7*	1*	11.5*	1	11.5	ne
t _{PLZ}	OE		CL = 13 pr		7*	9.7*	1*	11.5*	1	11.5 ns	
t _{PLH}	А	Y	C _L = 50 pF		8.1	11.5	1	13	1	13	ns
t _{PHL}	A	ī	CL = 50 pr		8.1	11.5	1	13	1	13	115
^t PZH	OF	Y	C _I = 50 pF		7.9	11.5	1	13	1	13	ns
tPZL	OE	ī	CL = 50 pr		7.9	11.5	1	13	1	13	115
^t PHZ	OE	Y	C. 50 pF		9.5	13.2	1	15	1	15	20
^t PLZ		r 	C _L = 50 pF		9.5	13.2	1	15	1	15	ns
^t sk(o)			C _L = 50 pF			1.5**				1.5	ns

 $^{^{}st}$ On products compliant to MIL-PRF-38535, this parameter is not production tested.

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

FROM	то	LOAD	T	λ = 25°C	;	SN54AI	HC126	SN74A	HC126	UNIT
(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
^	~	C 15 pE		3.8*	5.5*	1*	6.5*	1	6.5	20
A	ī	CL = 15 pr		3.8*	5.5*	1*	6.5*	1	6.5	ns
OF.	>	C 15 pE		3.6*	5.1*	1*	6*	1	6	ns
OE	ı	CL = 13 pr		3.6*	5.1*	1*	6*	1	6	115
OF.	>	C: - 15 pE		4.6*	6.8*	1*	8*	1	8	ne
OE	ı	CL = 13 pr		4.6*	6.8*	1*	8*	1	8 ns	115
^	>	C 50 pE		5.3	7.5	1	8.5	1	8.5	ns
A	ı	CL = 30 pr		5.3	7.5	1	8.5	1	8.5	115
OF.	>	C 50 pE		5.1	7.1	1	8	1	8	ns
OE	ı	CL = 30 pr		5.1	7.1	1	8	1	8	115
OE.	>	C: - 50 pE		6.1	8.8	1	10	1	10	ns
OL	ı	OL = 30 bi-		6.1	8.8	1	10	1	10	119
		C _L = 50 pF			1**				1	ns
	_	(INPUT) (OUTPUT) A Y OE Y OE Y A Y OE Y	(INPUT) (OUTPUT) CAPACITANCE A Y CL = 15 pF OE Y CL = 15 pF OE Y CL = 15 pF A Y CL = 50 pF OE Y CL = 50 pF OE Y CL = 50 pF	(INPUT) (OUTPUT) CAPACITANCE MIN A Y C _L = 15 pF	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					

 $^{^{}st}$ On products compliant to MIL-PRF-38535, this parameter is not production tested.



^{**} On products compliant to MIL-PRF-38535, this parameter does not apply.

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noise characteristics, V_{CC} = 5 V, C_L = 50 pF, T_A = 25°C (see Note 4)

	DADAMETED					
	PARAMETER					
V _{OL(P)}	Quiet output, maximum dynamic V _{OL}		0.8	V		
V _{OL(V)}	Quiet output, minimum dynamic V _{OL}		-0.8	V		
V _{OH(V)}	Quiet output, minimum dynamic V _{OH}	4.4		V		
VIH(D)	High-level dynamic input voltage	3.5		V		
V _{IL(D)}	Low-level dynamic input voltage		1.5	V		

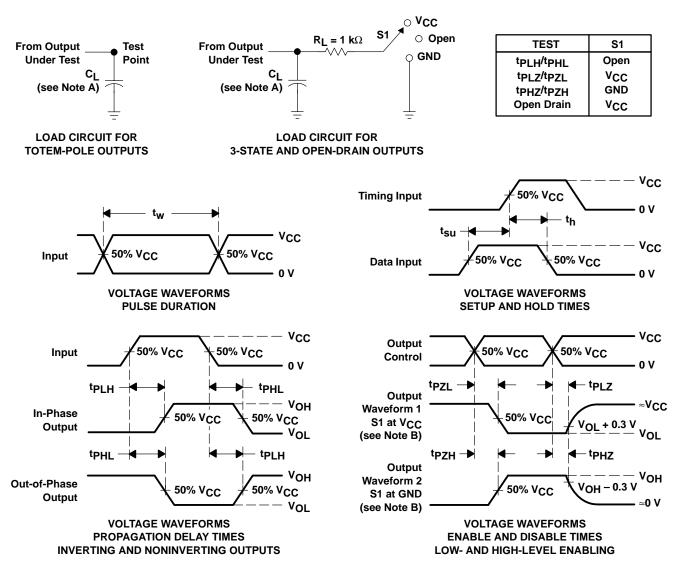
NOTE 4: Characteristics are for surface-mount packages only.

operating characteristics, V_{CC} = 5 V, T_A = 25°C

PARAMETER	TEST CONDITIONS	TYP	UNIT
C _{pd} Power dissipation capacitance	No load, f = 1 MHz	14	pF

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PARAMETER MEASUREMENT INFORMATION



NOTES: A. C_I 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, $Z_O = 50 \Omega$, $t_f \leq 3$ ns. $t_f \leq 3$ 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







26-Sep-2005

PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp (3)
5962-9686201Q2A	ACTIVE	LCCC	FK	20	1	TBD	Call TI	Level-NC-NC-NC
5962-9686201QCA	ACTIVE	CDIP	J	14	1	TBD	Call TI	Level-NC-NC-NC
5962-9686201QDA	ACTIVE	CFP	W	14	1	TBD	Call TI	Level-NC-NC-NC
SN74AHC126D	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AHC126DBLE	OBSOLETE	SSOP	DB	14		TBD	Call TI	Call TI
SN74AHC126DBR	ACTIVE	SSOP	DB	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AHC126DBRE4	ACTIVE	SSOP	DB	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AHC126DE4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AHC126DGVR	ACTIVE	TVSOP	DGV	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AHC126DGVRE4	ACTIVE	TVSOP	DGV	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AHC126DR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AHC126DRE4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AHC126N	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	Level-NC-NC-NC
SN74AHC126NSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AHC126NSRE4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AHC126PW	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AHC126PWG4	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AHC126PWLE	OBSOLETE	TSSOP	PW	14		TBD	Call TI	Call TI
SN74AHC126PWR	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AHC126PWRG4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SNJ54AHC126FK	ACTIVE	LCCC	FK	20	1	TBD	Call TI	Level-NC-NC-NC
SNJ54AHC126J	ACTIVE	CDIP	J	14	1	TBD	Call TI	Level-NC-NC-NC
SNJ54AHC126W	ACTIVE	CFP	W	14	1	TBD	Call TI	Level-NC-NC-NC

⁽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) 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.



PACKAGE OPTION ADDENDUM

26-Sep-2005

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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.

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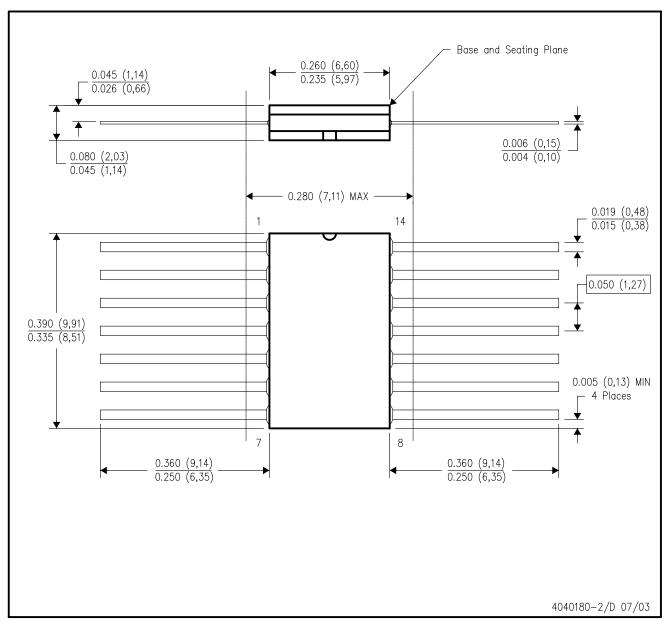
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- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package is hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification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

W (R-GDFP-F14)

CERAMIC DUAL FLATPACK



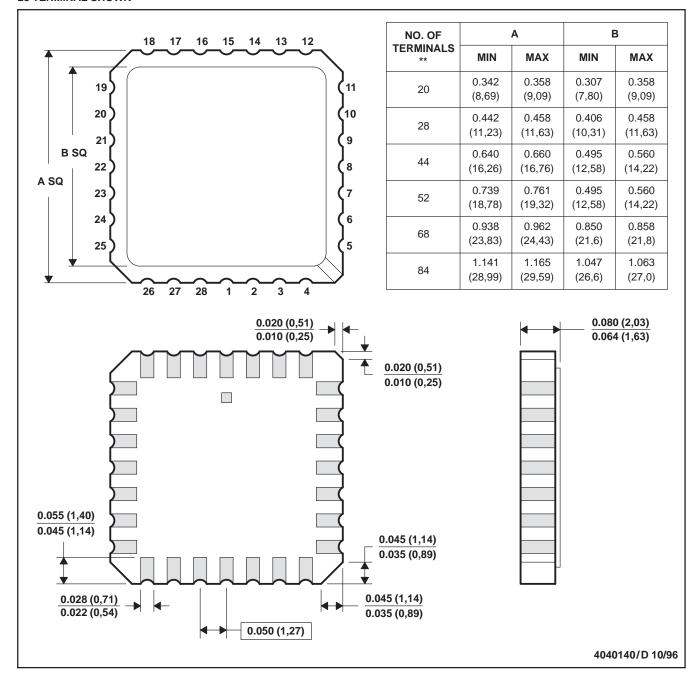
- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only.
- E. Falls within MIL STD 1835 GDFP1-F14 and JEDEC MO-092AB



FK (S-CQCC-N**)

28 TERMINAL SHOWN

LEADLESS CERAMIC CHIP CARRIER



- NOTES: A. All linear dimensions are in inches (millimeters).
 - B. This drawing is subject to change without notice.
 - C. This package can be hermetically sealed with a metal lid.
 - D. The terminals are gold plated.
 - E. Falls within JEDEC MS-004



N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



- 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**)

24 PINS SHOWN

PLASTIC SMALL-OUTLINE



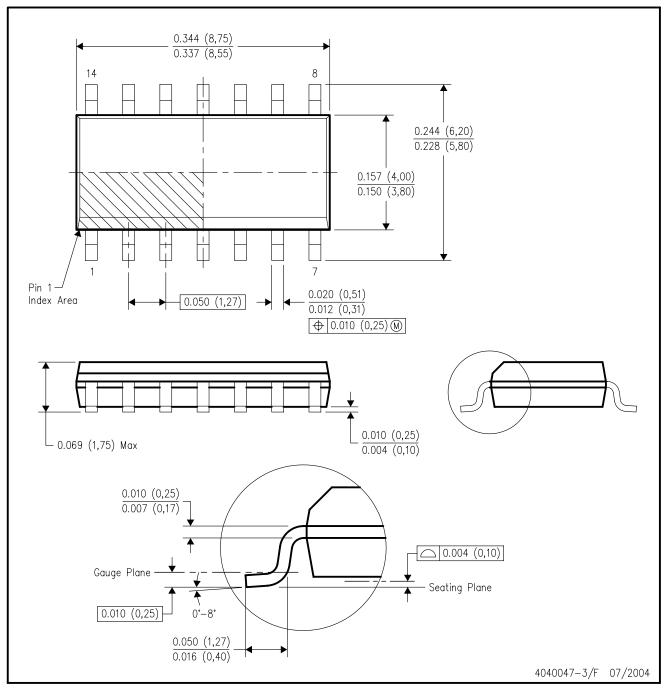
NOTES: A. All linear dimensions are in millimeters.

- 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



D (R-PDSO-G14)

PLASTIC SMALL-OUTLINE PACKAGE



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion not to exceed 0.006 (0,15).
- D. Falls within JEDEC MS-012 variation AB.



MECHANICAL DATA

NS (R-PDSO-G**)

14-PINS SHOWN

PLASTIC SMALL-OUTLINE PACKAGE



- . 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**)

14 PINS SHOWN

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 not to exceed 0,15.

D. Falls within JEDEC MO-153

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