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<u>Texas Instruments</u> <u>SN74AHCT157DBR</u>

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Datasheet of SN74AHCT157DBR - IC QUAD 2-1 DATASEL/MUX 16-SSOP

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

## SN54AHCT157, SN74AHCT157 QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

SCLS347K - MAY 1996 - REVISED JULY 2003

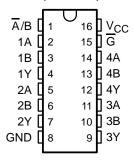
- Inputs Are TTL-Voltage Compatible
- Latch-Up Performance Exceeds 250 mA Per JESD 17

## description/ordering information

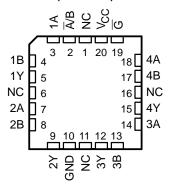
These quadruple 2-line to 1-line data selectors/multiplexers are designed for 4.5-V to 5.5-V  $V_{CC}$  operation.

The 'AHCT157 devices feature a common strobe  $(\overline{G})$  input. When the strobe is high, all outputs are low. When the strobe is low, a 4-bit word is selected from one of two sources and is routed to the four outputs. The devices provide true data.

#### SN54AHCT157 . . . J OR W PACKAGE SN74AHCT157 . . . D, DB, DGV, N, NS, OR PW PACKAGE (TOP VIEW)



## SN54AHCT157 . . . FK PACKAGE (TOP VIEW)



NC - No internal connection

#### **ORDERING INFORMATION**

т.	PACKA	cet	ORDERABLE	TOP-SIDE
T <sub>A</sub>	PACKA	GEI	PART NUMBER	MARKING
	PDIP – N	Tube	SN74AHCT157N	SN74AHCT157N
	SOIC - D	Tube	SN74AHCT157D	AHCT157
	3010 - 15	Tape and reel	SN74AHCT157DR	Anorisi
–40°C to 85°C	SOP – NS	Tape and reel	SN74AHCT157NSR	AHCT157
40 0 10 03 0	SSOP – DB	Tape and reel	SN74AHCT157DBR	HB157
	TSSOP – PW	Tube	SN74AHCT157PW	HB157
	13301 –1 W	Tape and reel	SN74AHCT157PWR	TIBIOT
	TVSOP – DGV	Tape and reel	SN74AHCT157DGVR	HB157
	CDIP – J	Tube	SNJ54AHCT157J	SNJ54AHCT157J
–55°C to 125°C	CFP – W	Tube	SNJ54AHCT157W	SNJ54AHCT157W
	LCCC – FK	Tube	SNJ54AHCT157K	SNJ54AHCT157FK

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



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.





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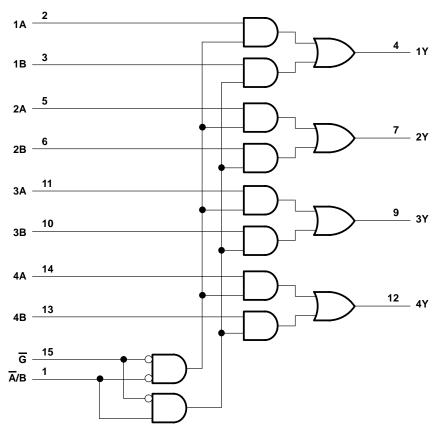
## SN54AHCT157, SN74AHCT157 QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

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#### **FUNCTION TABLE**

	INPU	OUTPUT		
lG	Ā/B	Α	Υ	
Н	Х	Χ	Х	L
L	L	L	X	L
L	L	Н	Х	Н
L	Н	Χ	L	L
L	Н	X	Н	Н

## logic diagram (positive logic)



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



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# SN54AHCT157, SN74AHCT157 QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

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

Supply voltage range, V <sub>CC</sub>		
Input voltage range, V <sub>I</sub> (see Note 1)		
Output voltage range, V <sub>O</sub> (see Note 1)		$\cdot$ . $-0.5$ V to V <sub>CC</sub> + 0.5 V
Input clamp current, I <sub>IK</sub> (V <sub>I</sub> < 0)		–20 mA
Output clamp current, $I_{OK}$ ( $V_O < 0$ or $V_O > V_{CO}$	c)	±20 mA
Continuous output current, $I_O$ ( $V_O = 0$ to $V_{CC}$ )		±25 mA
Continuous current through V <sub>CC</sub> or GND		±50 mA
Package thermal impedance, θ <sub>JA</sub> (see Note 2)	: D package	
, <b>3</b> , ,	DB package	
	DGV package	120°C/W
	N package	67°C/W
	NS package	64°C/W
	PW package	108°C/W
Storage temperature range, T <sub>stg</sub>	•	

<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)

		SN54AH	CT157	SN74AH	CT157	UNIT
		MIN	MAX	MIN	MAX	UNIT
VCC	Supply voltage	4.5	5.5	4.5	5.5	V
VIH	High-level input voltage	2	Z	2		V
V <sub>IL</sub>	Low-level input voltage		0.8		0.8	V
VI	Input voltage	0	5.5	0	5.5	V
٧o	Output voltage	0/	Vcc	0	VCC	V
IOH	High-level output current	27/	-8		-8	mA
loL	Low-level output current	70 <sub>2</sub>	8		8	mA
Δt/Δν	Input transition rise or fall time	Q	20		20	ns/V
TA	Operating free-air temperature	-55	125	-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.



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# SN54AHCT157, SN74AHCT157 QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

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

PARAMETER	TEST CONDITIONS	Voc	T <sub>A</sub> = 25°C			SN54AH0	CT157	SN74AHCT157		UNIT
PARAMETER	TEST CONDITIONS	vcc	MIN	TYP	MAX	MIN	MAX	MIN	MAX	ONII
M -	I <sub>OH</sub> = -50 μA	451/	4.4	4.5		4.4		4.4		V
VOH	I <sub>OH</sub> = -8 mA	4.5 V	3.94			3.8	, la	3.8		V
\/	I <sub>OL</sub> = 50 μA	4.5 V			0.1		0.1		0.1	.,
VOL	I <sub>OL</sub> = 8 mA	4.5 V			0.36	40	0.44		0.44	·
lį	V <sub>I</sub> = 5.5 V or GND	0 V to 5.5 V			±0.1	4	±1*		±1	μΑ
Icc	$V_I = V_{CC}$ or GND, $I_O = 0$	5.5 V			2	370	20		20	μΑ
ΔI <sub>CC</sub> †	One input at 3.4 V, Other inputs at V <sub>CC</sub> or GND	5.5 V			1.35	Ody	1.5		1.5	mA
C <sub>i</sub>	V <sub>I</sub> = V <sub>CC</sub> or GND	5 V		2	10				10	pF

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

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

DADAMETED	FROM	то	LOAD	TA	= 25°C	;	SN54AH	CT157	SN74AHCT157		UNIT	
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT	
<sup>t</sup> PLH	A or B	Y	C 15 pE		4.1**	6.4**	1**	7.5**	1	7.5	ns	
<sup>t</sup> PHL	AOID	'	C <sub>L</sub> = 15 pF		4.1**	6.4**	1**	7.5**	1	7.5	10	
<sup>t</sup> PLH	Ā/B	Y	C <sub>I</sub> = 15 pF		5.3**	8.1**	1**	9.5**	1	9.5	ns	
<sup>t</sup> PHL	A/B	'	CL = 15 pr	CL = 15 pr		5.3**	8.1**	1**	9.5**	1	9.5	10
<sup>t</sup> PLH	G	Y	C <sub>I</sub> = 15 pF		5.6**	8.6**	1**	10**	1	10	ns	
<sup>t</sup> PHL	G	'	OL = 15 pr		5.6**	8.6**	1**_<	10**	1	10	115	
tPLH	A or B	Y	C <sub>I</sub> = 50 pF		5.6	8.7	<del>(</del> )	10.8	1	9.8	ns	
t <sub>PHL</sub>	AOIB	'	CL = 50 pr		5.6	8.7	Ž	10.8	1	9.8	10	
t <sub>PLH</sub>	Ā/B	Y	C <sub>I</sub> = 50 pF		6.8	10.4	1	13.2	1	12	nc	
t <sub>PLH</sub>	A/B	'	CL = 50 pr		6.8	10.4	1	13.2	1	12	ns	
t <sub>PLH</sub>	G	Y	C 50 pE		7.1	11	1	13.5	1	12	ns	
<sup>t</sup> PHL	9	ľ	C <sub>L</sub> = 50 pF		7.1	11	1	13.5	1	12	110	

<sup>\*\*</sup> On products compliant to MIL-PRF-38535, this parameter is not production tested.

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

	PARAMETER	SN7	UNIT		
	PARAMETER	MIN	TYP	MAX	UNII
V <sub>OL(P)</sub>	Quiet output, maximum dynamic V <sub>OL</sub>		0.4	0.8	V
V <sub>OL(V)</sub>	Quiet output, minimum dynamic V <sub>OL</sub>		-0.4	-0.8	V
VOH(V)	Quiet output, minimum dynamic V <sub>OH</sub>		4.8		V
V <sub>IH(D)</sub>	High-level dynamic input voltage	2			V
V <sub>IL(D)</sub>	Low-level dynamic input voltage			0.8	V

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



<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>.

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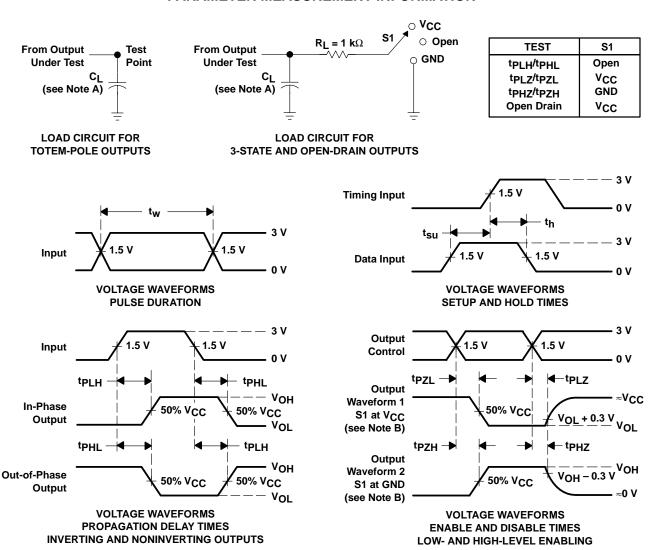
## SN54AHCT157, SN74AHCT157 **QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS**

SCLS347K - MAY 1996 - REVISED JULY 2003

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

PARAMETER	TEST CON	DITIONS	TYP	UNIT
C <sub>pd</sub> Power dissipation capacitance	No load, f	= 1 MHz	11	pF

#### 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,  $Z_{O} = 50 \Omega$ ,  $t_{r} \leq$  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





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PACKAGE OPTION ADDENDUM

10-Jun-2014

#### **PACKAGING INFORMATION**

Orderable Device	Status	Package Type		Pins	_	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
	(1)		Drawing		Qty	(2)	(6)	(3)		(4/5)	
SN74AHCT157D	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT157	Samples
SN74AHCT157DBLE	OBSOLETE	SSOP	DB	16		TBD	Call TI	Call TI	-40 to 85		
SN74AHCT157DBR	ACTIVE	SSOP	DB	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB157	Samples
SN74AHCT157DG4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT157	Samples
SN74AHCT157DGVR	ACTIVE	TVSOP	DGV	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB157	Samples
SN74AHCT157DR	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT157	Samples
SN74AHCT157N	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-40 to 85	SN74AHCT157N	Samples
SN74AHCT157PW	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB157	Samples
SN74AHCT157PWLE	OBSOLETE	TSSOP	PW	16		TBD	Call TI	Call TI	-40 to 85		
SN74AHCT157PWR	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB157	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.

(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



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PACKAGE OPTION ADDENDUM

10-Jun-2014

(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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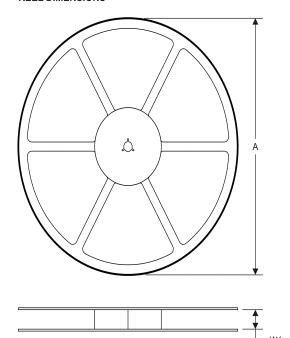


## **PACKAGE MATERIALS INFORMATION**

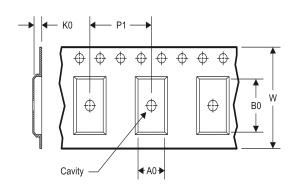
14-Jul-2012 www.ti.com

#### TAPE AND REEL INFORMATION

#### **REEL DIMENSIONS**



#### **TAPE DIMENSIONS**



A0	Dimension designed to accommodate the component width
В0	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

#### TAPE AND REEL INFORMATION

#### \*All dimensions are nominal

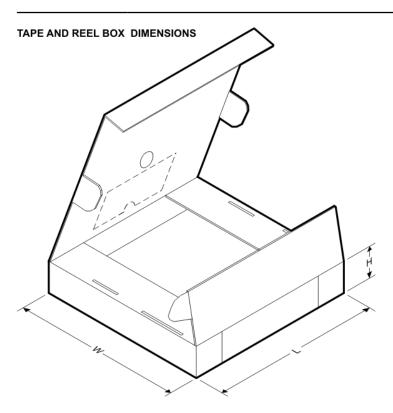
Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74AHCT157DBR	SSOP	DB	16	2000	330.0	16.4	8.2	6.6	2.5	12.0	16.0	Q1
SN74AHCT157DGVR	TVSOP	DGV	16	2000	330.0	12.4	6.8	4.0	1.6	8.0	12.0	Q1
SN74AHCT157DR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
SN74AHCT157PWR	TSSOP	PW	16	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1

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## **PACKAGE MATERIALS INFORMATION**

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#### \*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AHCT157DBR	SSOP	DB	16	2000	367.0	367.0	38.0
SN74AHCT157DGVR	TVSOP	DGV	16	2000	367.0	367.0	35.0
SN74AHCT157DR	SOIC	D	16	2500	333.2	345.9	28.6
SN74AHCT157PWR	TSSOP	PW	16	2000	367.0	367.0	35.0



16 PINS SHOWN

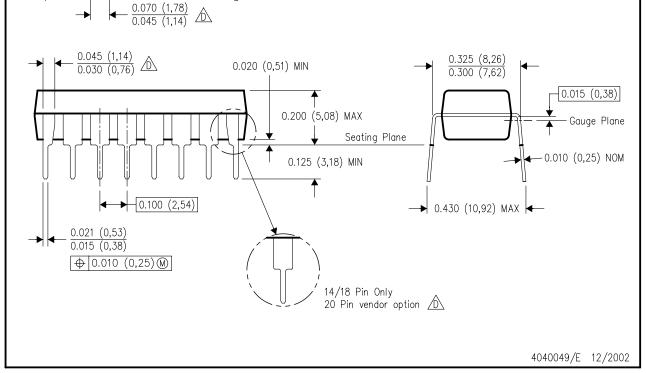
#### **MECHANICAL DATA**

## N (R-PDIP-T\*\*)

## PLASTIC DUAL-IN-LINE PACKAGE

A — 9 0.260 (6,60)

	PINS **	14	16	18	20
	A MAX	0.775 (19,69)	0.775 (19,69)	0.920 (23,37)	1.060 (26,92)
	A MIN	0.745 (18,92)	0.745 (18,92)	0.850 (21,59)	0.940 (23,88)
7	MS-001 VARIATION	AA	ВВ	AC	AD



0.240 (6,10)

8

- . 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.





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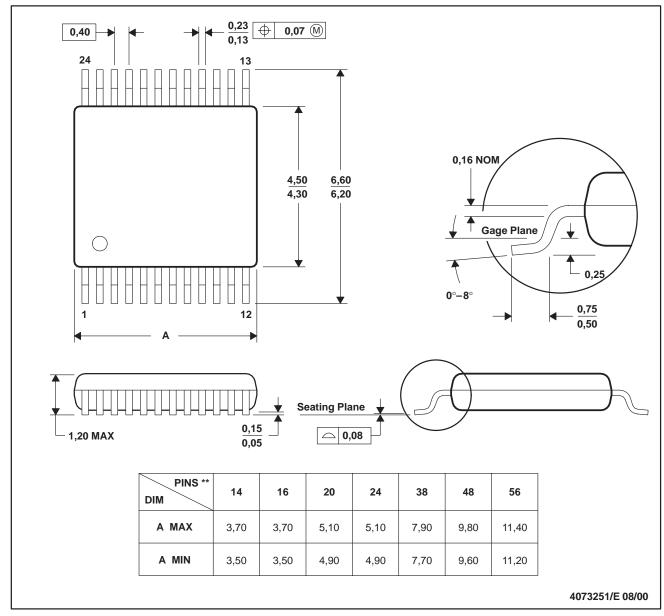
#### MECHANICAL DATA

MPDS006C - FEBRUARY 1996 - REVISED AUGUST 2000

#### 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

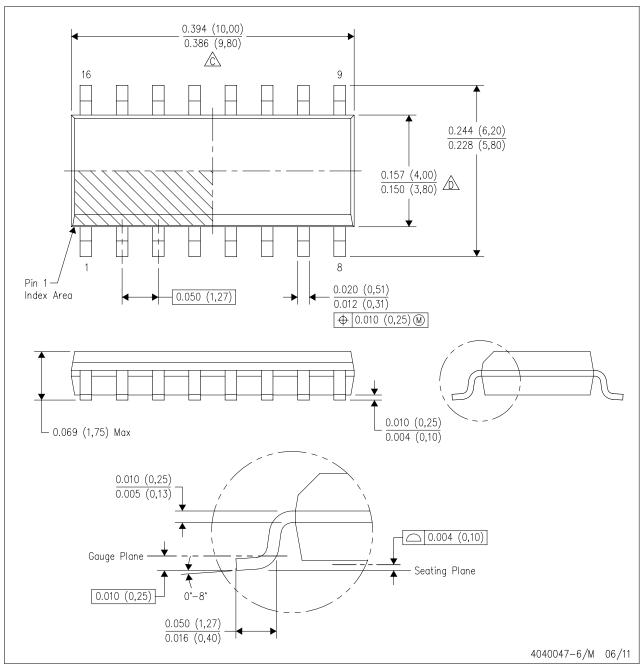




### **MECHANICAL DATA**

## D (R-PDSO-G16)

#### PLASTIC SMALL OUTLINE



- 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 AC.

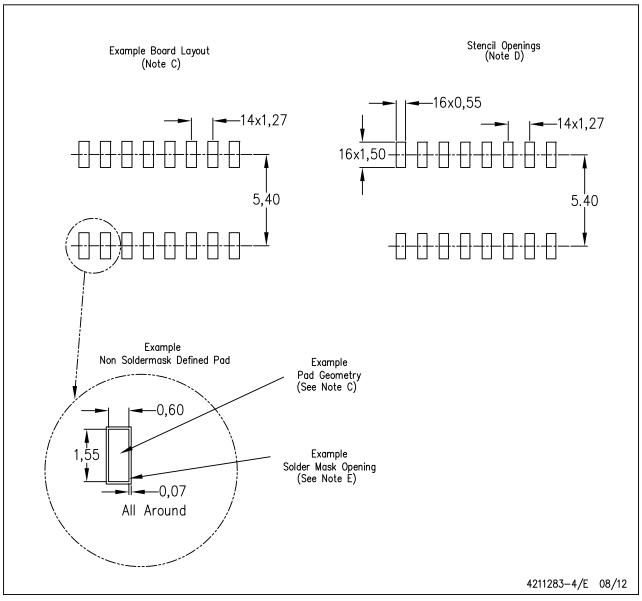




#### **LAND PATTERN DATA**

## D (R-PDSO-G16)

### PLASTIC SMALL OUTLINE



- 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.

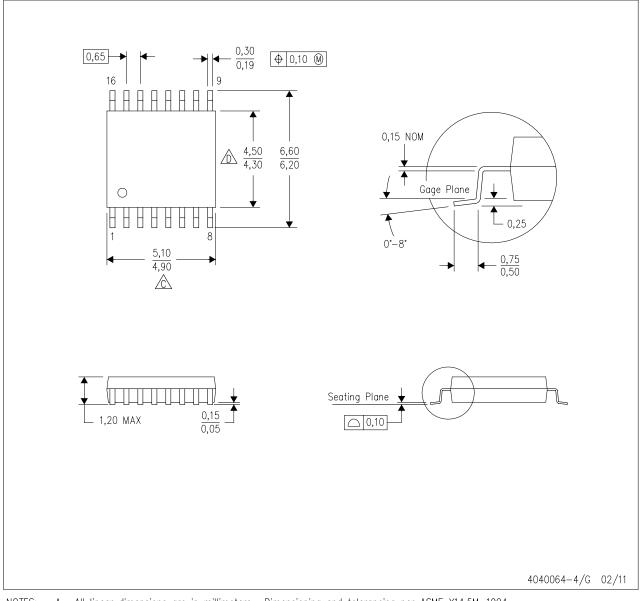




## **MECHANICAL DATA**

PW (R-PDSO-G16)

### PLASTIC SMALL OUTLINE



- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M—1994.
- 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 0,15 each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0,25 each side.
- E. Falls within JEDEC MO-153

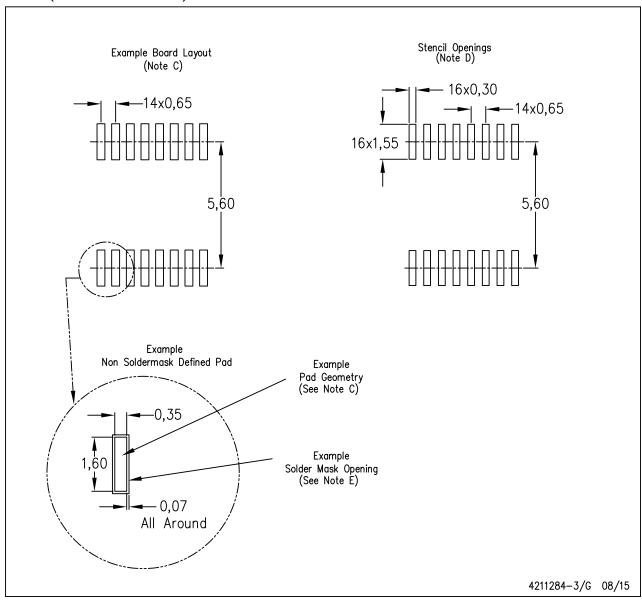




#### **LAND PATTERN DATA**

## PW (R-PDSO-G16)

## PLASTIC SMALL OUTLINE



- 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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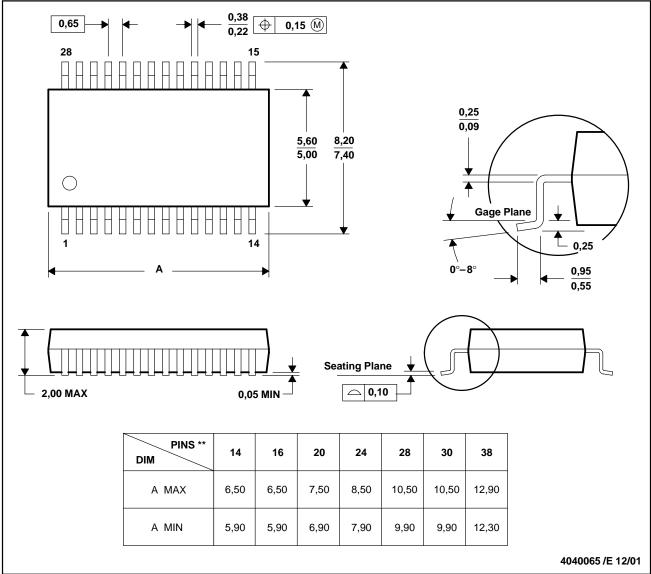
#### **MECHANICAL DATA**

MSSO002E - JANUARY 1995 - REVISED DECEMBER 2001

#### 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





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