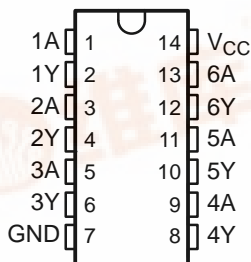


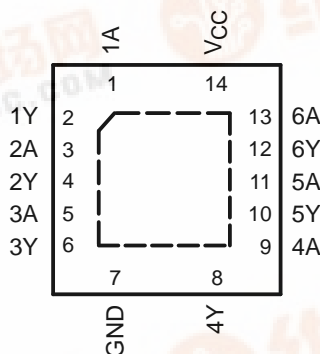
FEATURES

- Operate From 1.65 V to 5 V
- Inputs and Open-Drain Outputs Accept Voltages up to 5.5 V
- Max t_{pd} of 2.6 ns at 5 V
- Latch-Up Performance Exceeds 250 mA Per JESD 17

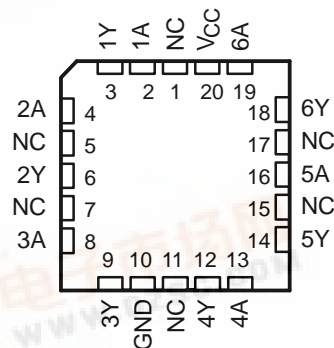
SN54LVC07A ... J OR W PACKAGE
SN74LVC07A ... D, DB, DGV, NS,
OR PW PACKAGE
(TOP VIEW)



SN74LVC07A ... RGY PACKAGE
(TOP VIEW)



SN54LVC07A ... FK PACKAGE
(TOP VIEW)



NC - No internal connection

DESCRIPTION/ORDERING INFORMATION

These hex buffers/drivers are designed for 1.65-V to 5.5-V V_{CC} operation.

The outputs of the 'LVC07A devices are open drain and can be connected to other open-drain outputs to implement active-low wired-OR or active-high wired-AND functions. The maximum sink current is 24 mA.

Inputs can be driven from 1.8-V, 2.5-V, 3.3-V (LVTTTL), or 5-V (CMOS) devices. This feature allows the use of these devices as translators in a mixed-system environment.

ORDERING INFORMATION

T_A	PACKAGE ⁽¹⁾		ORDERABLE PART NUMBER	TOP-SIDE MARKING
–40°C to 85°C	QFN – RGY	Reel of 1000	SN74LVC07ARGYR	LC07A
		Tube of 50	SN74LVC07AD	LVC07A
	SOIC – D	Reel of 2500	SN74LVC07ADR	
		Reel of 250	SN74LVC07ADT	
	SOP – NS	Reel of 2000	SN74LVC07ANSR	LVC07A
	SSOP – DB	Reel of 2000	SN74LVC07ADBR	LC07A
	TSSOP – PW	Tube of 90	SN74LVC07APW	LC07A
		Reel of 2000	SN74LVC07APWR	
		Reel of 250	SN74LVC07APWT	
–55°C to 125°C	TVSOP – DGV	Reel of 2000	SN74LVC07ADGVR	LC07A
	CDIP – J	Tube of 25	SNJ54LVC07AJ	SNJ54LVC07AJ
	CFP – W	Tube of 150	SNJ54LVC07AW	SNJ54LVC07AW
	LCCC – FK	Tube of 55	SNJ54LVC07AFK	SNJ54LVC07AFK

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

SN54LVC07A, SN74LVC07A HEX BUFFERS/DRIVERS WITH OPEN-DRAIN OUTPUTS

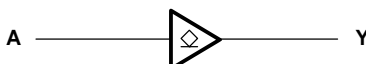
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**FUNCTION TABLE
(EACH BUFFER/DRIVER)**

INPUT A	OUTPUT Y
H	H
L	L

LOGIC DIAGRAM, EACH BUFFER/DRIVER (POSITIVE LOGIC)



Absolute Maximum Ratings⁽¹⁾

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

		MIN	MAX	UNIT
V _{CC}	Supply voltage range	−0.5	6.5	V
V _I	Input voltage range ⁽²⁾	−0.5	6.5	V
V _O	Output voltage range	−0.5	6.5	V
I _{IK}	Input clamp current		−50	mA
I _{OK}	Output clamp current		−50	mA
I _O	Continuous output current		±50	mA
	Continuous current through V _{CC} or GND		±100	mA
θ _{JA}	Package thermal impedance	D package ⁽³⁾	86	°C/W
		DB package ⁽³⁾	96	
		DGV package ⁽³⁾	127	
		NS package ⁽³⁾	76	
		PW package ⁽³⁾	113	
		RGY package ⁽⁴⁾	47	
T _{stg}	Storage temperature range	−65	150	°C

- (1) 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.
- (2) The input and output negative-voltage ratings may be exceeded if the input and output current ratings are observed.
- (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.

Recommended Operating Conditions⁽¹⁾

			SN54LVC07A ⁽²⁾		SN74LVC07A		UNIT
			MIN	MAX	MIN	MAX	
V _{CC}	Supply voltage		1.65	5.5	1.65	5.5	V
V _{IH}	High-level input voltage	V _{CC} = 1.65 V to 1.95 V	0.65 × V _{CC}		0.65 × V _{CC}		V
		V _{CC} = 2.3 V to 2.7 V	1.7		1.7		
		V _{CC} = 2.7 V to 3.6 V	2		2		
		V _{CC} = 4.5 V to 5.5 V	0.7 × V _{CC}		0.7 × V _{CC}		
V _{IL}	Low-level input voltage	V _{CC} = 1.65 V to 1.95 V	0.35 × V _{CC}		0.35 × V _{CC}		V
		V _{CC} = 2.3 V to 2.7 V	0.7		0.7		
		V _{CC} = 2.7 V to 3.6 V	0.8		0.8		
		V _{CC} = 4.5 V to 5.5 V	0.3 × V _{CC}		0.3 × V _{CC}		
V _I	Input voltage		0	5.5	0	5.5	V
V _O	Output voltage		0	5.5	0	5.5	V
I _{OL}	Low-level output current	V _{CC} = 1.65 V	4		4		mA
		V _{CC} = 2.3 V	12		12		
		V _{CC} = 2.7 V	12		12		
		V _{CC} = 3 V	24		24		
		V _{CC} = 4.5 V	24		24		
T _A	Operating free-air temperature		−55	125	−40	85	°C

(1) 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.

(2) Product preview

Electrical Characteristics

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

PARAMETER	TEST CONDITIONS	V _{CC}	SN54LVC07A ⁽¹⁾			SN74LVC07A			UNIT
			MIN	TYP ⁽²⁾	MAX	MIN	TYP ⁽²⁾	MAX	
V _{OL}	I _{OL} = 100 μA	1.65 V to 5.5 V			0.2			0.2	V
	I _{OL} = 4 mA	1.65 V			0.45			0.45	
	I _{OL} = 12 mA	2.3 V			0.7			0.7	
		2.7 V			0.4			0.4	
	I _{OL} = 24 mA	3 V			0.55			0.55	
		4.5 V							
I _I	V _I = 5.5 V or GND	3.6 V			±5			±5	μA
I _{CC}	V _I = V _{CC} or GND, I _O = 0	3.6 V			10			10	μA
ΔI _{CC}	One input at V _{CC} – 0.6 V, Other inputs at V _{CC} or GND	2.7 V to 3.6 V			500			500	μA
C _i	V _I = V _{CC} or GND	3.3 V			5			5	pF

(1) Product preview

(2) All typical values are at V_{CC} = 3.3 V, T_A = 25°C.

SN54LVC07A, SN74LVC07A HEX BUFFERS/DRIVERS WITH OPEN-DRAIN OUTPUTS

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Switching Characteristics

over recommended operating free-air temperature range (unless otherwise noted) (see [Figure 1](#) through [Figure 4](#))

PARAMETER	FROM (INPUT)	TO (OUTPUT)	SN54LVC07A ⁽¹⁾										UNIT
			V _{CC} = 1.8 V ± 0.15 V		V _{CC} = 2.5 V ± 0.2 V		V _{CC} = 2.7 V		V _{CC} = 3.3 V ± 0.3 V		V _{CC} = 5 V ± 0.5 V		
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	A	Y	1	3.5	1	2.8	3		1	2.9	1	2.6	ns

(1) Product preview

Switching Characteristics

over recommended operating free-air temperature range (unless otherwise noted) (see [Figure 1](#) through [Figure 4](#))

PARAMETER	FROM (INPUT)	TO (OUTPUT)	SN74LVC07A									UNIT	
			$V_{CC} = 1.8\text{ V}$ $\pm 0.15\text{ V}$		$V_{CC} = 2.5\text{ V}$ $\pm 0.2\text{ V}$		$V_{CC} = 2.7\text{ V}$		$V_{CC} = 3.3\text{ V}$ $\pm 0.3\text{ V}$		$V_{CC} = 5\text{ V}$ $\pm 0.5\text{ V}$		
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN		MAX
t_{pd}	A	Y	1	3.5	1	2.8	3		1	2.9	1	2.6	ns

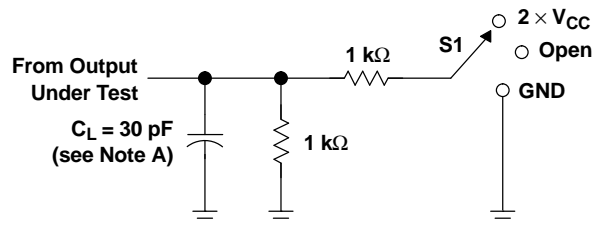
Operating Characteristics

$T_A = 25^\circ\text{C}$

PARAMETER		TEST CONDITIONS	$V_{CC} = 1.8\text{ V}$	$V_{CC} = 2.5\text{ V}$	$V_{CC} = 3.3\text{ V}$	$V_{CC} = 5\text{ V}$	UNIT
			TYP	TYP	TYP	TYP	
C_{pd}	Power dissipation capacitance per buffer/driver	$f = 10\text{ MHz}$	1.8	2	2.5	3.78	pF

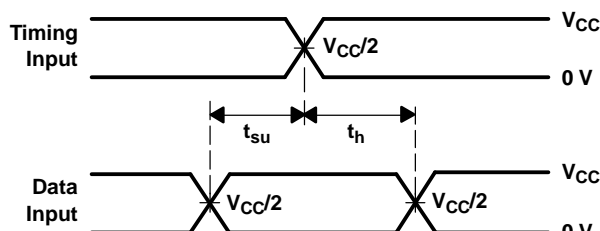
PARAMETER MEASUREMENT INFORMATION

$$V_{CC} = 1.8 \text{ V} \pm 0.15 \text{ V}$$

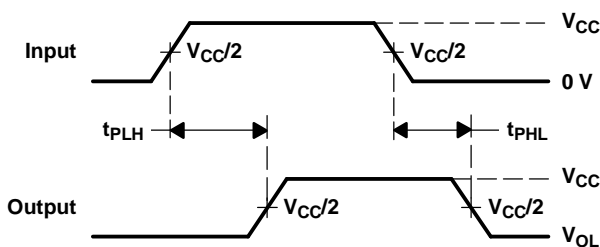


LOAD CIRCUIT

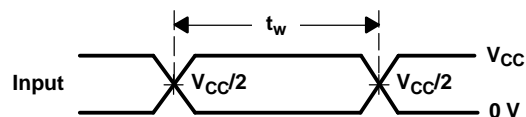
TEST	S1
t_{PZL} (see Note F)	2 × V_{CC}
t_{PLZ} (see Note G)	2 × V_{CC}
t_{PHZ}/t_{PZH}	2 × V_{CC}



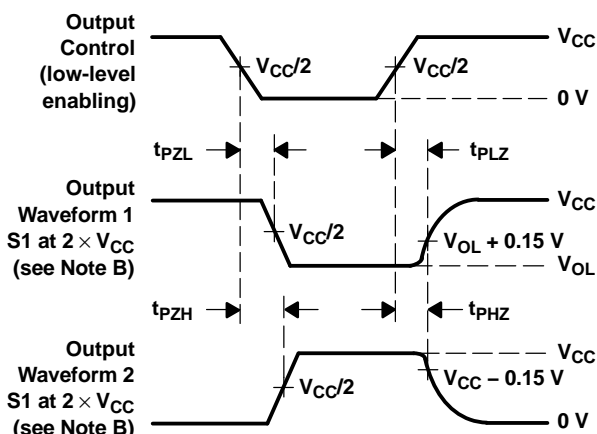
VOLTAGE WAVEFORMS
SETUP AND HOLD TIMES



VOLTAGE WAVEFORMS
PROPAGATION DELAY TIMES



VOLTAGE WAVEFORMS
PULSE DURATION



VOLTAGE WAVEFORMS
ENABLE AND DISABLE TIMES

- NOTES:
- C_L includes probe and jig capacitance.
 - 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.
 - All input pulses are supplied by generators having the following characteristics: $PRR \leq 10 \text{ MHz}$, $Z_O = 50 \Omega$, $t_r \leq 2 \text{ ns}$, $t_f \leq 2 \text{ ns}$.
 - The outputs are measured one at a time, with one transition per measurement.
 - Since this device has open-drain outputs, t_{PLZ} and t_{PZL} are the same as t_{pd} .
 - t_{PZL} is measured at $V_{CC}/2$.
 - t_{PLZ} is measured at $V_{OL} + 0.15 \text{ V}$.
 - All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms

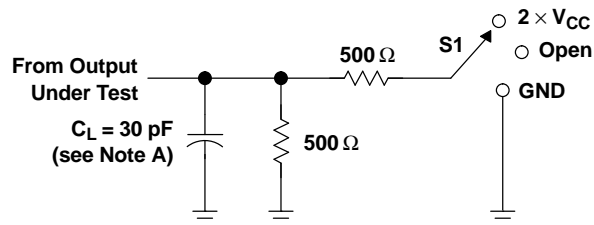
SN54LVC07A, SN74LVC07A HEX BUFFERS/DRIVERS WITH OPEN-DRAIN OUTPUTS

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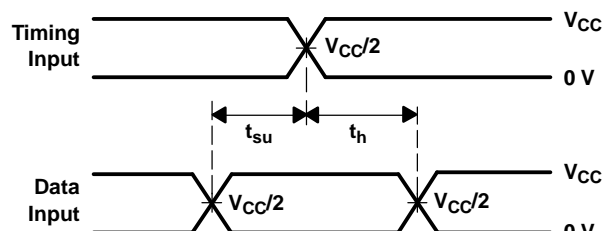
PARAMETER MEASUREMENT INFORMATION

$$V_{CC} = 2.5 \text{ V} \pm 0.2 \text{ V}$$

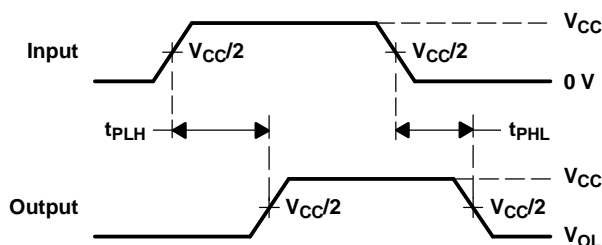


LOAD CIRCUIT

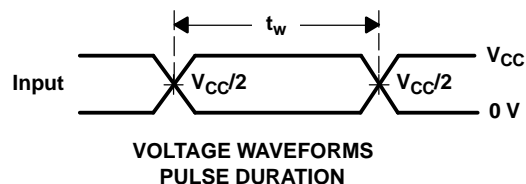
TEST	S1
t_{PZL} (see Note F)	$2 \times V_{CC}$
t_{PLZ} (see Note G)	$2 \times V_{CC}$
t_{PHZ}/t_{PZH}	$2 \times V_{CC}$



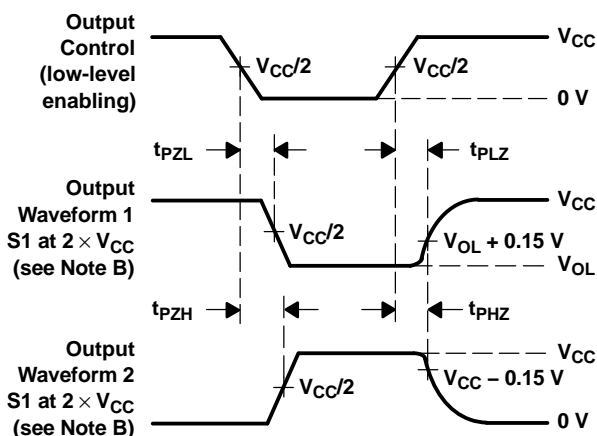
VOLTAGE WAVEFORMS
SETUP AND HOLD TIMES



VOLTAGE WAVEFORMS
PROPAGATION DELAY TIMES



VOLTAGE WAVEFORMS
PULSE DURATION



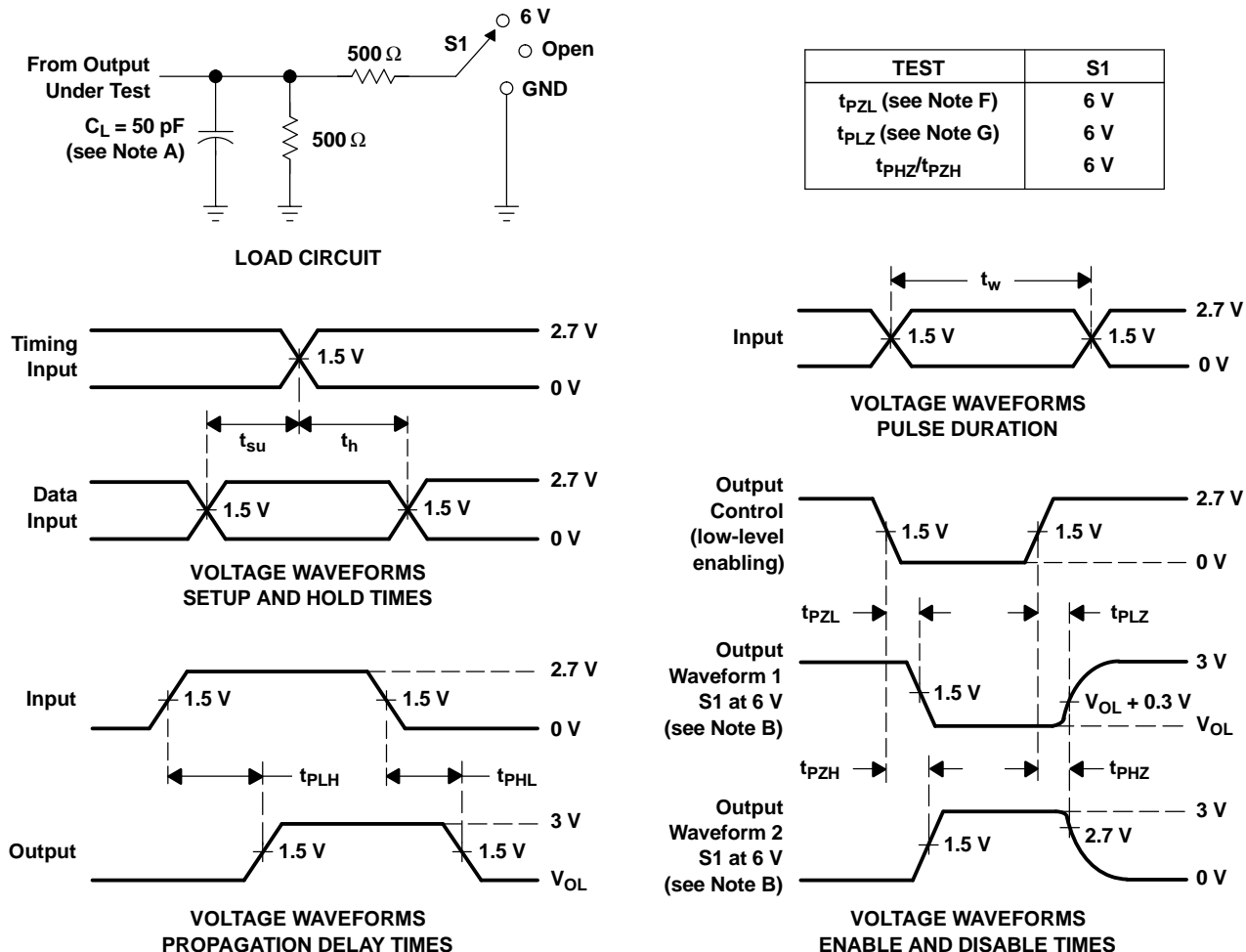
VOLTAGE WAVEFORMS
ENABLE AND DISABLE TIMES

- NOTES:
- C_L includes probe and jig capacitance.
 - 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.
 - All input pulses are supplied by generators having the following characteristics: $PRR \leq 10 \text{ MHz}$, $Z_O = 50 \Omega$, $t_r \leq 2 \text{ ns}$, $t_f \leq 2 \text{ ns}$.
 - The outputs are measured one at a time, with one transition per measurement.
 - Since this device has open-drain outputs, t_{PLZ} and t_{PZL} are the same as t_{pd} .
 - t_{PZL} is measured at $V_{CC}/2$.
 - t_{PLZ} is measured at $V_{OL} + 0.15 \text{ V}$.
 - All parameters and waveforms are not applicable to all devices.

Figure 2. Load Circuit and Voltage Waveforms

PARAMETER MEASUREMENT INFORMATION

$$V_{CC} = 2.7 \text{ and } 3.3 \text{ V} \pm 0.3 \text{ V}$$



- 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: $PRR \leq 10 \text{ MHz}$, $Z_O = 50 \Omega$, $t_r \leq 2.5 \text{ ns}$, $t_f \leq 2.5 \text{ ns}$.
 - D. The outputs are measured one at a time, with one transition per measurement.
 - E. Since this device has open-drain outputs, t_{PLZ} and t_{PZL} are the same as t_{pd} .
 - F. t_{PZL} is measured at 1.5 V.
 - G. t_{PLZ} is measured at $V_{OL} + 0.3 \text{ V}$.
 - H. All parameters and waveforms are not applicable to all devices.

Figure 3. Load Circuit and Voltage Waveforms

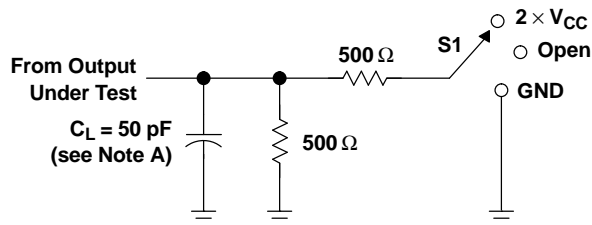
SN54LVC07A, SN74LVC07A HEX BUFFERS/DRIVERS WITH OPEN-DRAIN OUTPUTS

SCAS595O—OCTOBER 1997—REVISED JULY 2005



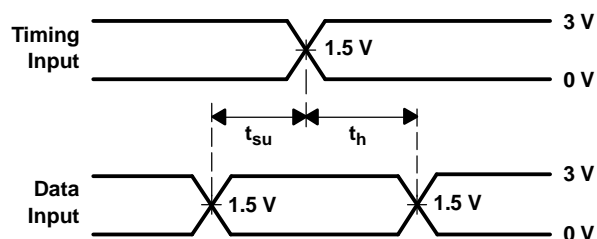
PARAMETER MEASUREMENT INFORMATION

$$V_{CC} = 5\text{ V} \pm 0.5\text{ V}$$

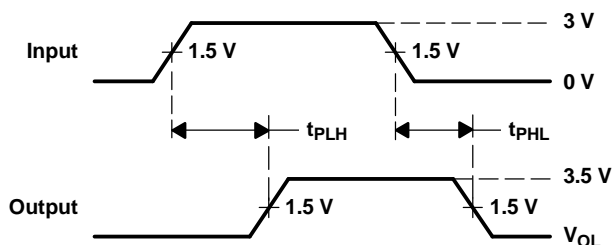


LOAD CIRCUIT

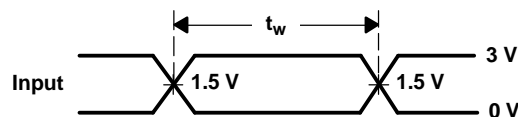
TEST	S1
t_{PZL} (see Note F)	2 $\times V_{CC}$
t_{PLZ} (see Note G)	2 $\times V_{CC}$
t_{PHZ}/t_{PZH}	7 V



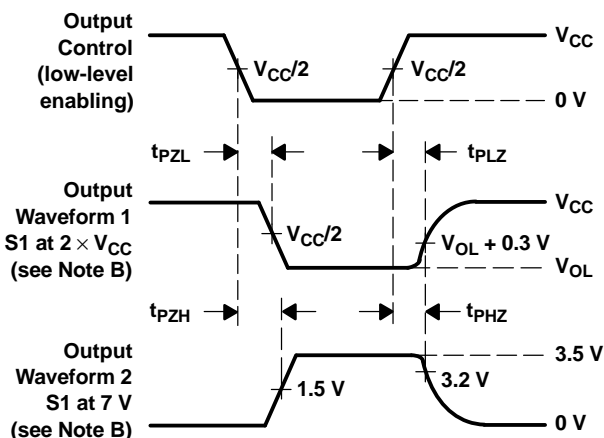
VOLTAGE WAVEFORMS
SETUP AND HOLD TIMES



VOLTAGE WAVEFORMS
PROPAGATION DELAY TIMES



VOLTAGE WAVEFORMS
PULSE DURATION



VOLTAGE WAVEFORMS
ENABLE AND DISABLE TIMES

- NOTES:
- C_L includes probe and jig capacitance.
 - 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.
 - All input pulses are supplied by generators having the following characteristics: $PRR \leq 10\text{ MHz}$, $Z_O = 50\text{ }\Omega$, $t_r \leq 2.5\text{ ns}$, $t_f \leq 2.5\text{ ns}$.
 - The outputs are measured one at a time, with one transition per measurement.
 - Since this device has open-drain outputs, t_{PLZ} and t_{PZL} are the same as t_{PD} .
 - t_{PZL} is measured at $V_{CC}/2$.
 - t_{PLZ} is measured at $V_{OL} + 0.3\text{ V}$.
 - All parameters and waveforms are not applicable to all devices.

Figure 4. 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⁾
SN74LVC07AD	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07ADBR	ACTIVE	SSOP	DB	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07ADBRG4	ACTIVE	SSOP	DB	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07ADE4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07ADGVR	ACTIVE	TVSOP	DGV	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07ADGVRE4	ACTIVE	TVSOP	DGV	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07ADGVRG4	ACTIVE	TVSOP	DGV	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07ADR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07ADRE4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07ADRG4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07ADT	ACTIVE	SOIC	D	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07ADTE4	ACTIVE	SOIC	D	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07ANSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07ANSRE4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07APW	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07APWE4	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07APWLE	OBSOLETE	TSSOP	PW	14		TBD	Call TI	Call TI
SN74LVC07APWR	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07APWRE4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07APWRG4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07APWT	ACTIVE	TSSOP	PW	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07APWTE4	ACTIVE	TSSOP	PW	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07APWTG4	ACTIVE	TSSOP	PW	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC07ARGYR	ACTIVE	QFN	RGY	14	1000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1YEAR

⁽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.

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.

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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In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.

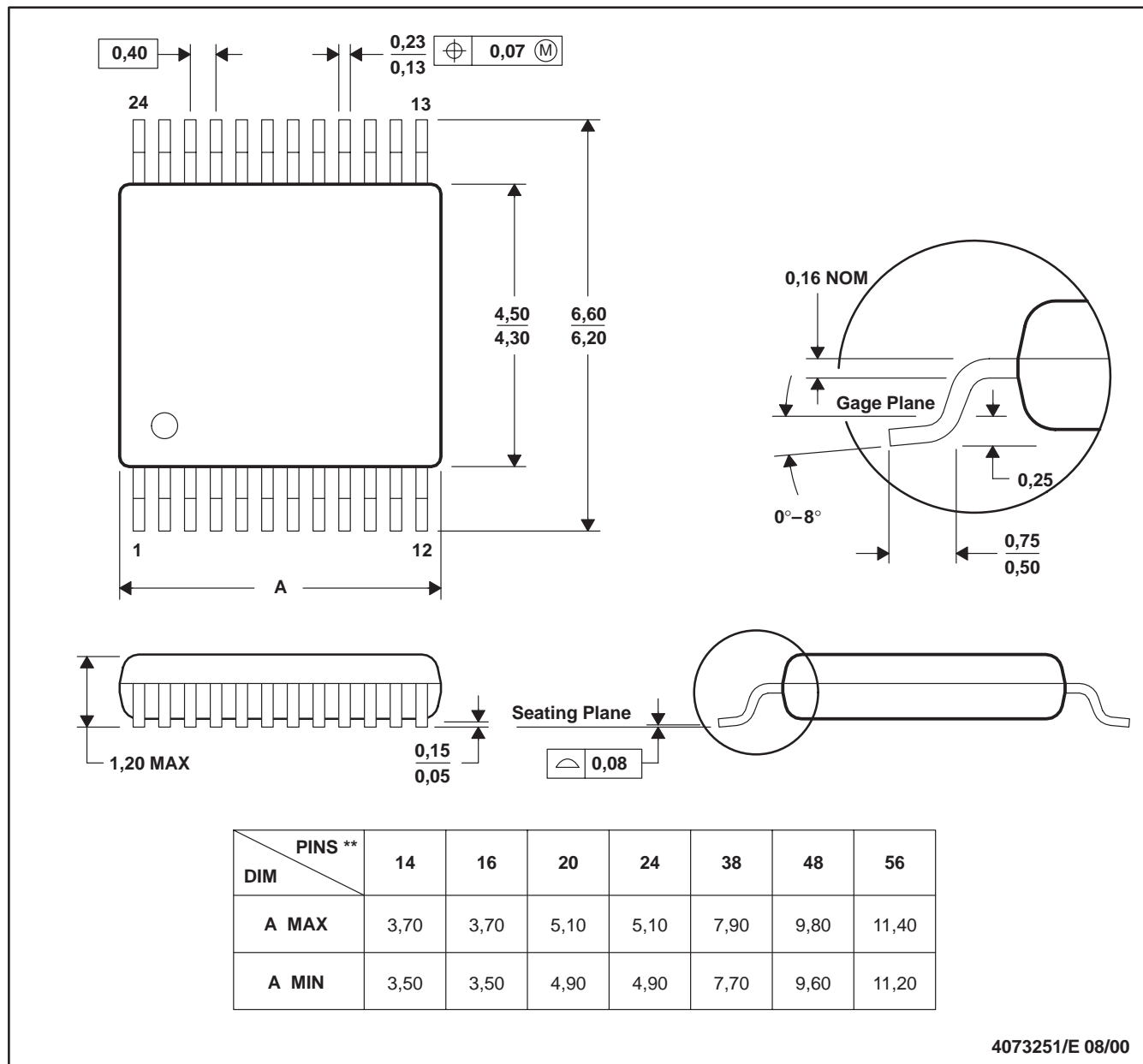
MECHANICAL DATA

MPDS006C – FEBRUARY 1996 – REVISED AUGUST 2000

DGV (R-PDSO-G**)

PLASTIC SMALL-OUTLINE

24 PINS SHOWN

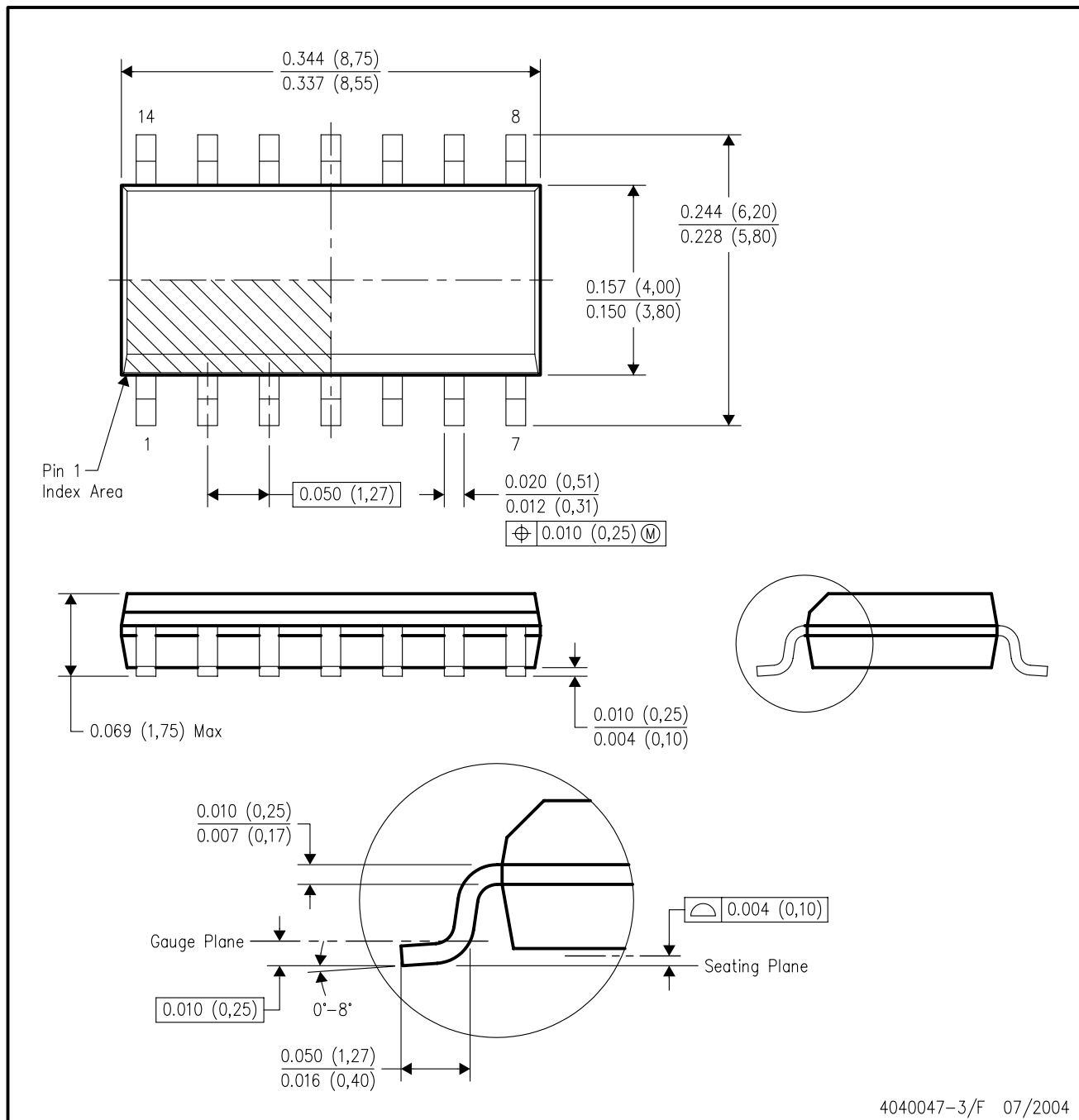


- NOTES: A. All linear dimensions are in millimeters.
 B. This drawing is subject to change without notice.
 C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15 per side.
 D. Falls within JEDEC: 24/48 Pins – MO-153
 14/16/20/56 Pins – MO-194

MECHANICAL DATA

D (R-PDSO-G14)

PLASTIC SMALL-OUTLINE PACKAGE



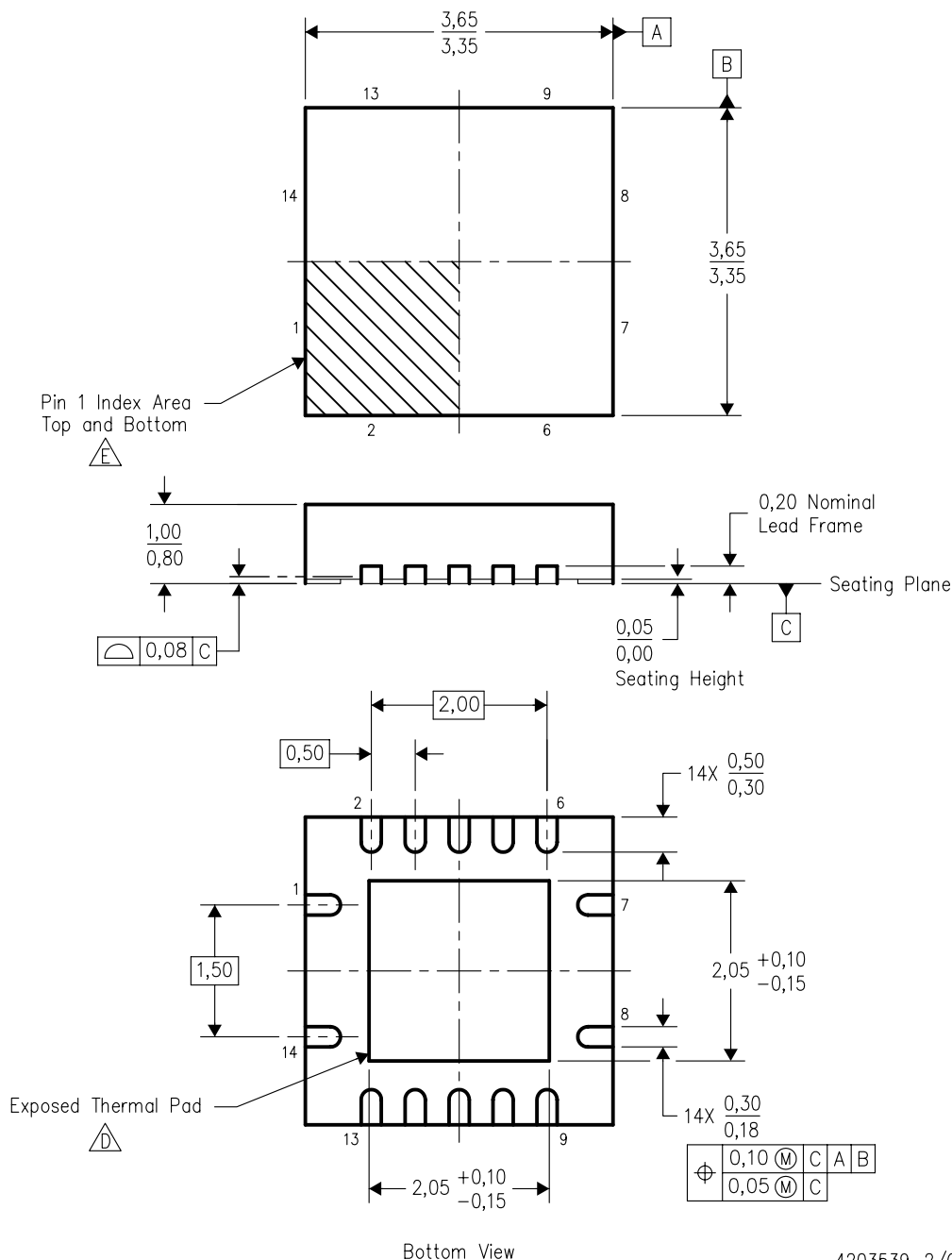
4040047-3/F 07/2004

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



MECHANICAL DATA

RGY (S-PQFP-N14)

PLASTIC QUAD FLATPACK



NOTES:

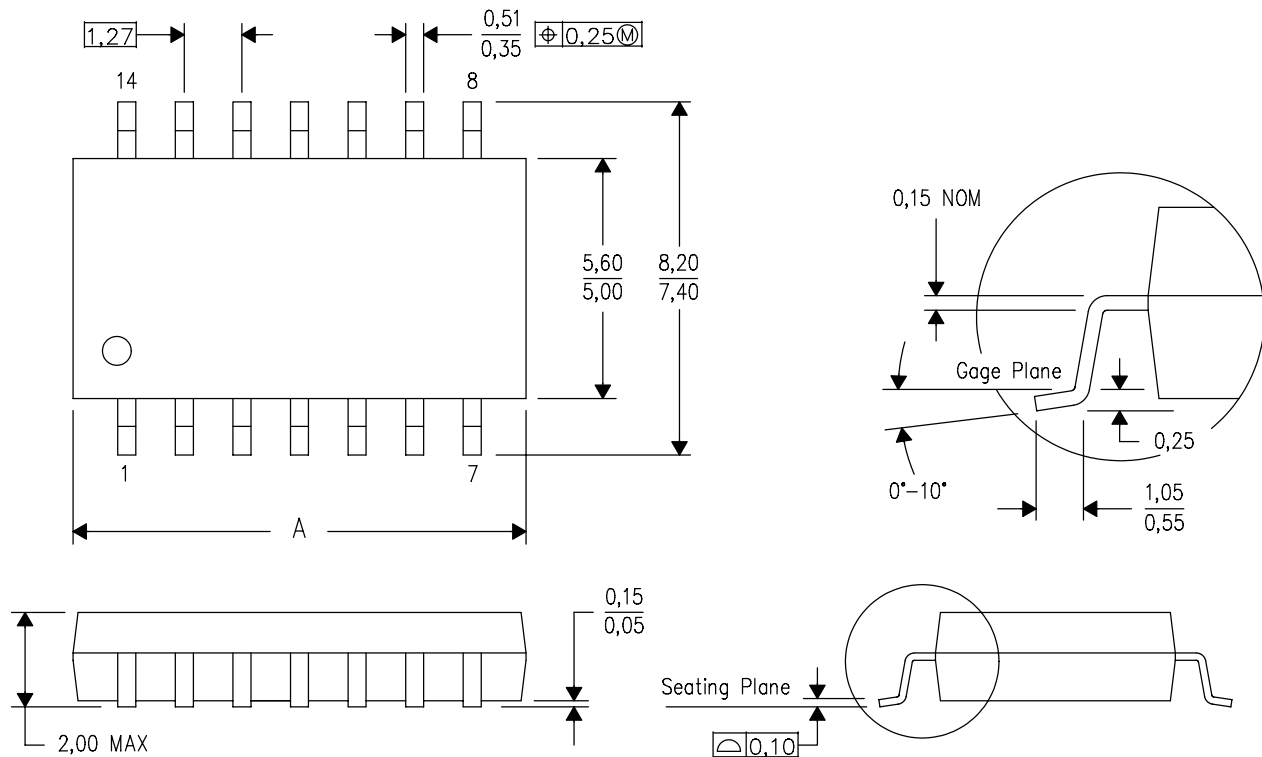
- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994.
- B. This drawing is subject to change without notice.
- C. QFN (Quad Flatpack No-Lead) package configuration.
-  D. The package thermal pad must be soldered to the board for thermal and mechanical performance.
-  E. Pin 1 identifiers are located on both top and bottom of the package and within the zone indicated.
The Pin 1 identifiers are either a molded, marked, or metal feature.
- F. Package complies to JEDEC MO-241 variation BA.

MECHANICAL DATA

NS (R-PDSO-G**)

PLASTIC SMALL-OUTLINE PACKAGE

14-PINS SHOWN



DIM \ PINS **	14	16	20	24
A MAX	10,50	10,50	12,90	15,30
A MIN	9,90	9,90	12,30	14,70

4040062/C 03/03

- NOTES:
- All linear dimensions are in millimeters.
 - This drawing is subject to change without notice.
 - Body dimensions do not include mold flash or protrusion, not to exceed 0,15.

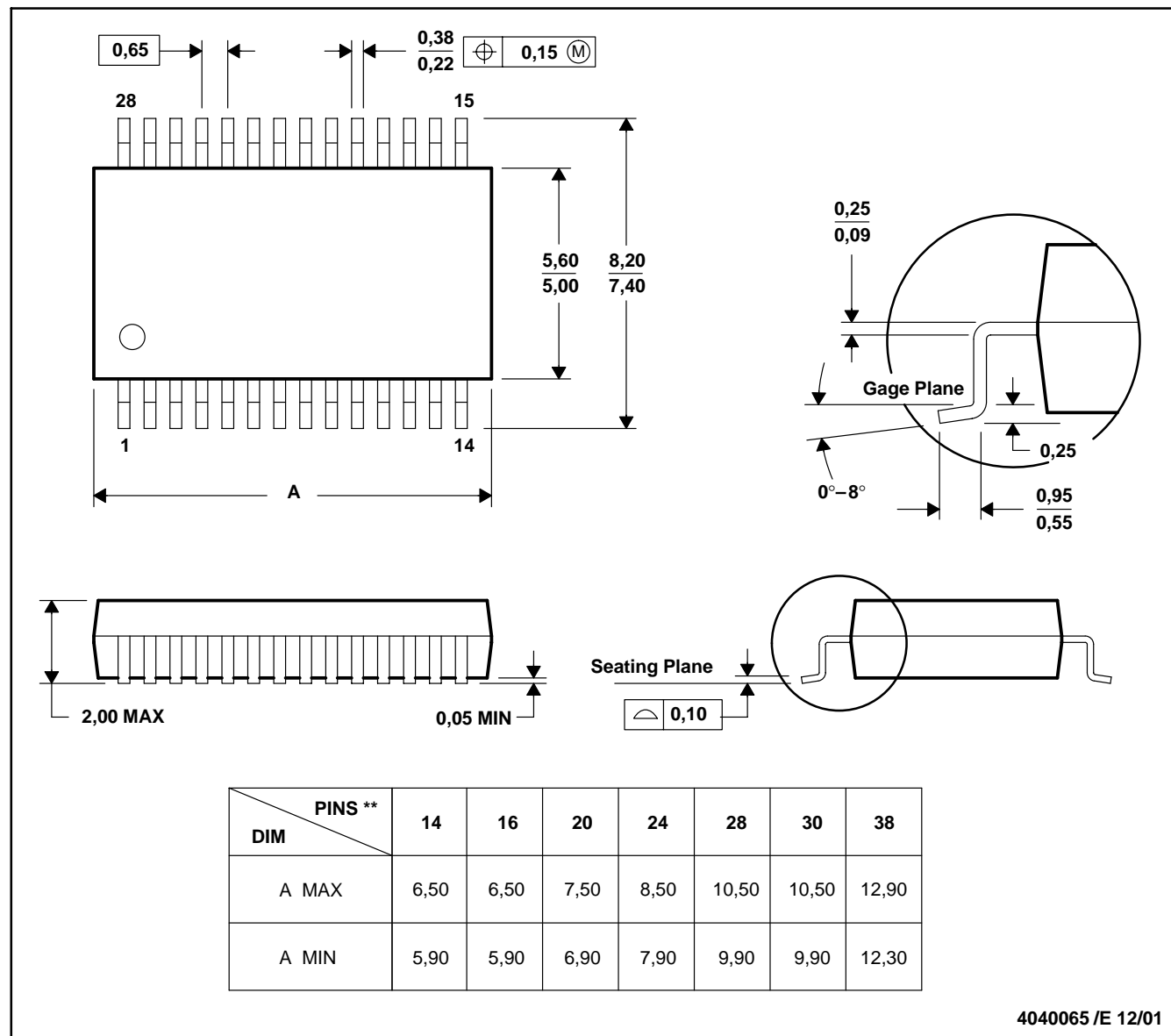
MECHANICAL DATA

MSS0002E – 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

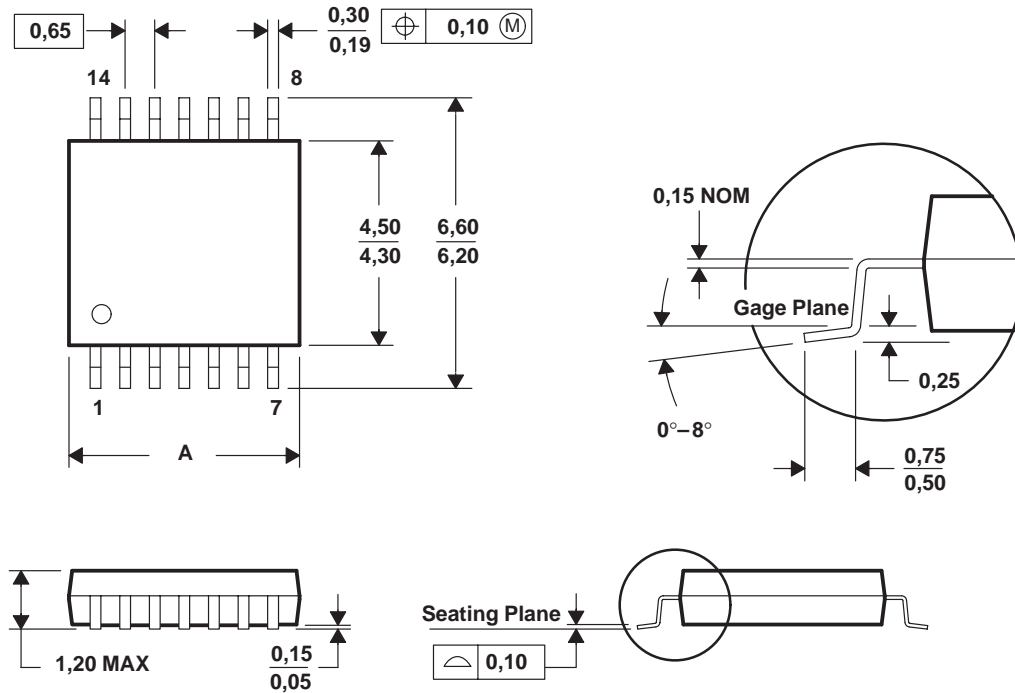
MECHANICAL DATA

MTSS001C – JANUARY 1995 – REVISED FEBRUARY 1999

PW (R-PDSO-G**)

PLASTIC SMALL-OUTLINE PACKAGE

14 PINS SHOWN



PINS **	8	14	16	20	24	28
DIM						
A MAX	3,10	5,10	5,10	6,60	7,90	9,80
A MIN	2,90	4,90	4,90	6,40	7,70	9,60

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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