SDAS017C - DECEMBER 1982 - REVISED JANUARY 1995

- High Capacitive-Drive Capability
- 'ALS832A Has Typical Delay Time of 4.8 ns (C_L = 50 pF) and Typical Power Dissipation of 4.5 mW Per Gate
- 'AS832B Has Typical Delay Time of 3.2 ns (C_L = 50 pF) and Typical Power Dissipation of Less Than 13 mW Per Gate
- Package Options Include Plastic Small-Outline (DW) Packages, Ceramic Chip Carriers (FK), and Standard Plastic (N) and Ceramic (J) 300-mil DIPs

description

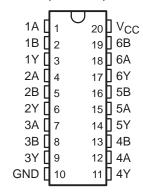
These devices contain six independent 2-input OR drivers. They perform the Boolean functions Y = A + B or $Y = \overline{A} \bullet \overline{B}$ in positive logic.

The SN54ALS832A and SN54AS832B are characterized for operation over the full military temperature range of -55°C to 125°C. The SN74ALS832A and SN74AS832B are characterized for operation from 0°C to 70°C.

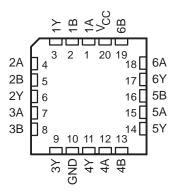
FUNCTION TABLE (each driver)

INP	UTS	OUTPUT
Α	В	Υ
Н	Х	Н
X	Н	Н
L	L	L

SN54ALS832A, SN54AS832B . . . J PACKAGE SN74ALS832A, SN74AS832B . . . DW OR N PACKAGE (TOP VIEW)



SN54ALS832A, SN54AS832B . . . FK PACKAGE (TOP VIEW)

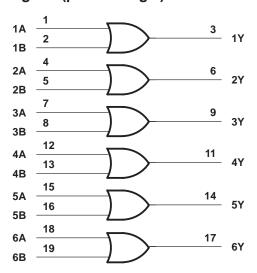


logic symbol†

1A	1	≥1 ▷	3	
	2	210		1Y
1B 2A	4			
2A 2B	5		6	2Y
2B 3A	7			
3A 3B	8		9	3Y
3B	12			
4A	13		11	4Y
4B	15			• •
5A	16		14	5Y
5B				31
6A	18		17	
6B	19			6Y
			,	

[†] This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12.

logic diagram (positive logic)





SN54ALS832A, SN54AS832B, SN74ALS832A, SN74AS832B HEX 2-INPUT OR DRIVERS

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

Supply voltage, V _{CC}	
Input voltage, V _I	
Operating free-air temperature range, TA: SN54ALS832A	–55°C to 125°C
SN74ALS832A	0°C to 70°C
Storage temperature range	–65°C to 150°C

recommended operating conditions

		SNS	4ALS83	2A	SN7	4ALS83	2A	UNIT
		MIN	NOM	MAX	MIN	NOM	MAX	UNIT
Vcc	Supply voltage	4.5	5	5.5	4.5	5	5.5	V
VIH	High-level input voltage	2			2			V
VIL	Low-level input voltage			0.7			8.0	V
IOH	High-level output current			-12			-15	mA
loL	Low-level output current			12			24	mA
TA	Operating free-air temperature	-55		125	0		70	°C

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

DADAMETED	TEST OF	TEST CONDITIONS				SN7	4ALS83	2A	LINUT
PARAMETER	lESI C	SNOTTIONS	MIN	TYP [‡]	MAX	MIN	TYP‡	MAX	UNIT
VIK	V _{CC} = 4.5 V,	I _I = -18 mA			-1.5			-1.5	V
	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V},$	$I_{OH} = -0.4 \text{ mA}$	V _{CC} -2	2		V _{CC} -2	!		
VOH		IOH = -3 mA	2.4	3.2		2.4	3.2		V
	V _{CC} = 4.5 V	$I_{OH} = -12 \text{ mA}$	2						V
		$I_{OH} = -15 \text{ mA}$				2			
\/o:	V00 - 4 5 V	I _{OL} = 12 mA		0.25	0.4		0.25	0.4	V
VOL	V _{CC} = 4.5 V	I _{OL} = 24 mA					0.35	0.5	V
ΙĮ	V _{CC} = 5.5 V,	V _I = 7 V			0.1			0.1	mA
IН	V _{CC} = 5.5 V,	V _I = 2.7 V			20			20	μΑ
I _{IL}	V _{CC} = 5.5 V,	V _I = 0.4 V			-0.1			-0.1	mA
ΙΟ§	V _{CC} = 5.5 V,	V _O = 2.25 V	-20		-112	-30		-112	mA
ІССН	V _{CC} = 5.5 V,	V _I = 4.5 V		6	9		6	9	mA
ICCL	V _{CC} = 5.5 V,	V _I = 0		9.5	16		9.5	16	mA

[‡] All typical values are at $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$.



[†] 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.

[§] The output conditions have been chosen to produce a current that closely approximates one half of the true short-circuit output current, IOS.

SN54ALS832A, SN54AS832B, SN74ALS832A, SN74AS832B HEX 2-INPUT OR DRIVERS

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switching characteristics (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _C C _L R _L T _A	UNIT			
			SN54AL	S832A	SN74AL	S832A	
			MIN	MAX	MIN	MAX	
^t PLH	A or B	V	1	13	2	9	ns
t _{PHL}	AUID	1	1	11	1	8	115

[†] For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

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

Supply voltage, V _{CC}	7 V
Input voltage, V _I	7 V
Operating free-air temperature range, T _A : SN54AS832B	
SN74AS832B	0°C to 70°C
Storage temperature range	-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.

recommended operating conditions§

		SN	54AS83	2B	SN	74AS832	2B	UNIT
		MIN	NOM	MAX	MIN	NOM	MAX	UNIT
Vcc	Supply voltage	4.5	5	5.5	4.5	5	5.5	V
VIH	High-level input voltage	2			2			V
V _{IL}	Low-level input voltage			0.8			0.8	V
ІОН	High-level output current			-40			-48	mA
loL	Low-level output current			40			48	mA
TA	Operating free-air temperature	-55		125	0		70	°C

[§] These high sink- or source-current devices are not recommended for use above 40 MHz.



SN54ALS832A, SN54AS832B, SN74ALS832A, SN74AS832B HEX 2-INPUT OR DRIVERS

SDAS017C - DECEMBER 1982 - REVISED JANUARY 1995

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

DADAMETED	TEST OF	NUDITIONS	SN	54AS83	2B	SN	74AS83	2B	UNIT
PARAMETER	1591 CC	ONDITIONS	MIN	TYP [†]	MAX	MIN	TYP†	MAX	UNII
VIK	$V_{CC} = 4.5 \text{ V},$	I _I = -18 mA			-1.2			-1.2	V
	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V},$	$I_{OH} = -2 \text{ mA}$	V _{CC} -2	2		V _{CC} -2			
V		$I_{OH} = -3 \text{ mA}$	2.4	3.2		2.4	3.2		V
VOH	V _{CC} = 4.5 V	$I_{OH} = -40 \text{ mA}$	2						V
		$I_{OH} = -48 \text{ mA}$				2			
Vai	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$I_{OL} = 40 \text{ mA}$		0.25	0.5				V
VOL	V _{CC} = 4.5 V	$I_{OL} = 48 \text{ mA}$					0.35	0.5	V
lį	V _{CC} = 5.5 V,	V _I = 7 V			0.1			0.1	mA
lіН	V _{CC} = 5.5 V,	V _I = 2.7 V			20			20	μΑ
I _{IL}	V _{CC} = 5.5 V,	V _I = 0.4 V			-0.5			-0.5	mA
I _O ‡	$V_{CC} = 5.5 \text{ V},$	V _O = 2.25 V	-50		-200	-50		-200	mA
ICCH	V _{CC} = 5.5 V,	V _I = 4.5 V		11	17		11	17	mA
ICCL	V _{CC} = 5.5 V,	V _I = 0		22	36		22	36	mA

[†] All typical values are at $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$.

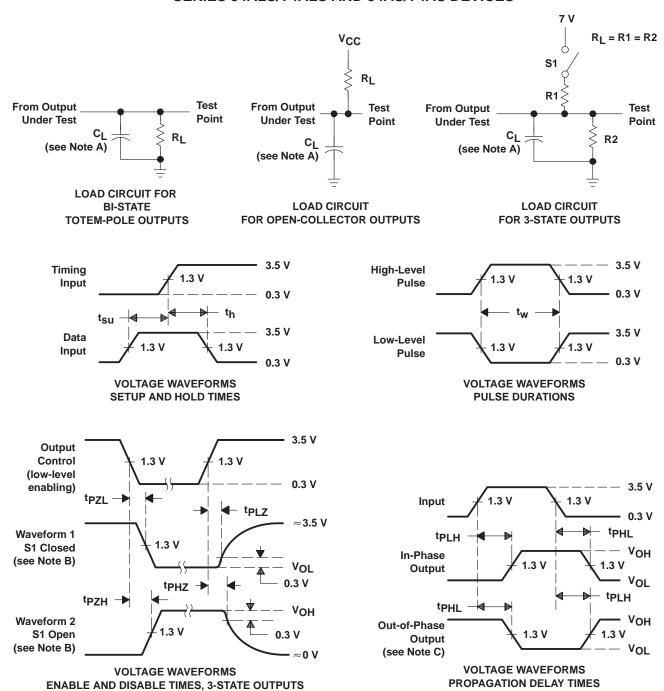
switching characteristics (see Figure 1)

PARAMETER	FROM (INPUT)	то (оитрит)	C _L R _L T _A	V_{CC} = 4.5 V to 5.5 V, C_L = 50 pF, R_L = 500 Ω , T_A = MIN to MAX§					
			SN54AS832B		SN74AS832B				
			MIN	MAX	MIN	MAX			
t _{PLH}	A or B	V	1	7.5	1	6.3	ns		
^t PHL	AUD	1	1	7	1	6.3	115		

[§] For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

[‡] The output conditions have been chosen to produce a current that closely approximates one half of the true short-circuit output current, IOS.

PARAMETER MEASUREMENT INFORMATION SERIES 54ALS/74ALS AND 54AS/74AS DEVICES



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. When measuring propagation delay items of 3-state outputs, switch S1 is open.
- D. All input pulses have the following characteristics: PRR \leq 1 MHz, t_{Γ} = t_{f} = 2 ns, duty cycle = 50%.
- E. The outputs are measured one at a time with one transition per measurement.

Figure 1. Load Circuits and Voltage Waveforms







28-Nov-2015

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)	
5962-88523012A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	5962- 88523012A SNJ54AS 832BFK	Sample
5962-8852301RA	NRND	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-8852301RA SNJ54AS832BJ	
5962-8852301SA	NRND	CFP	W	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-8852301SA SNJ54AS832BW	
84145012A	NRND	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	84145012A SNJ54ALS 832AFK	
8414501RA	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	8414501RA SNJ54ALS832AJ	Sample
SN54ALS832AJ	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	SN54ALS832AJ	Sample
SN54AS832BJ	NRND	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	SN54AS832BJ	
SN74ALS832ADW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	ALS832A	Sample
SN74ALS832AN	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN74ALS832AN	Sample
SN74AS832BDW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	AS832B	Sample
SN74AS832BDWR	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	AS832B	Sample
SN74AS832BDWRG4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	AS832B	Sample
SN74AS832BN	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN74AS832BN	Sample
SN74AS832BNE4	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN74AS832BN	Sample
SNJ54ALS832AFK	NRND	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	84145012A SNJ54ALS 832AFK	
SNJ54ALS832AJ	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	8414501RA SNJ54ALS832AJ	Sample



PACKAGE OPTION ADDENDUM

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Orderable Device	Status	Package Type	Package Drawing		Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
SNJ54AS832BFK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	5962- 88523012A SNJ54AS 832BFK	Samples
SNJ54AS832BJ	NRND	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-8852301RA SNJ54AS832BJ	
SNJ54AS832BW	NRND	CFP	W	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-8852301SA SNJ54AS832BW	

(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), 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)

- (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 OPTION ADDENDUM

28-Nov-2015

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OTHER QUALIFIED VERSIONS OF SN54ALS832A, SN54AS832B, SN74ALS832A, SN74AS832B:

● Catalog: SN74ALS832A, SN74AS832B

Military: SN54ALS832A, SN54AS832B

NOTE: Qualified Version Definitions:

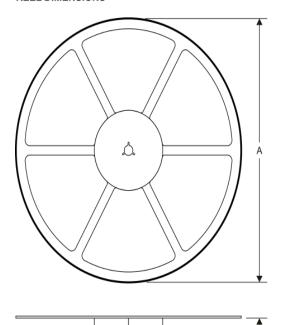
- Catalog TI's standard catalog product
- Military QML certified for Military and Defense Applications

PACKAGE MATERIALS INFORMATION

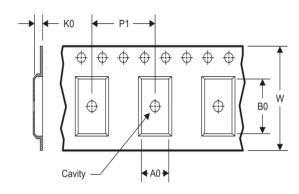
www.ti.com 14-Jul-2012

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



*All dimensions are nominal

Device		Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74AS832BDWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.0	2.7	12.0	24.0	Q1

PACKAGE MATERIALS INFORMATION

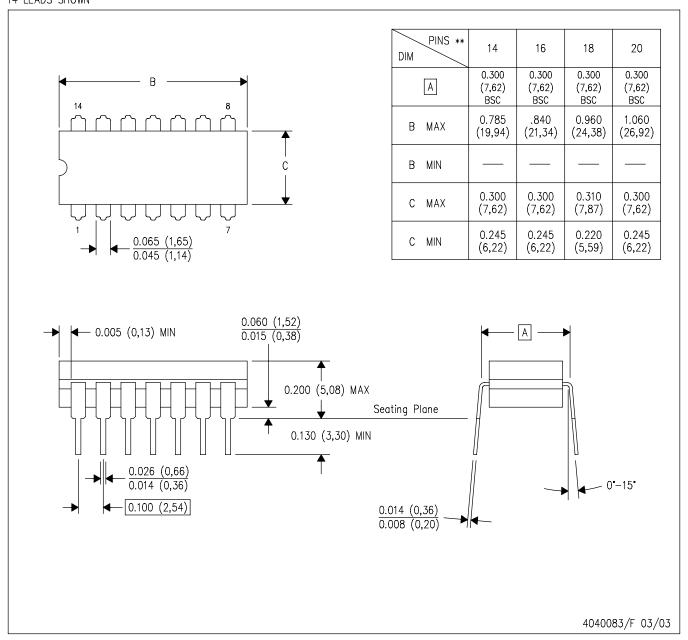
www.ti.com 14-Jul-2012



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AS832BDWR	SOIC	DW	20	2000	367.0	367.0	45.0

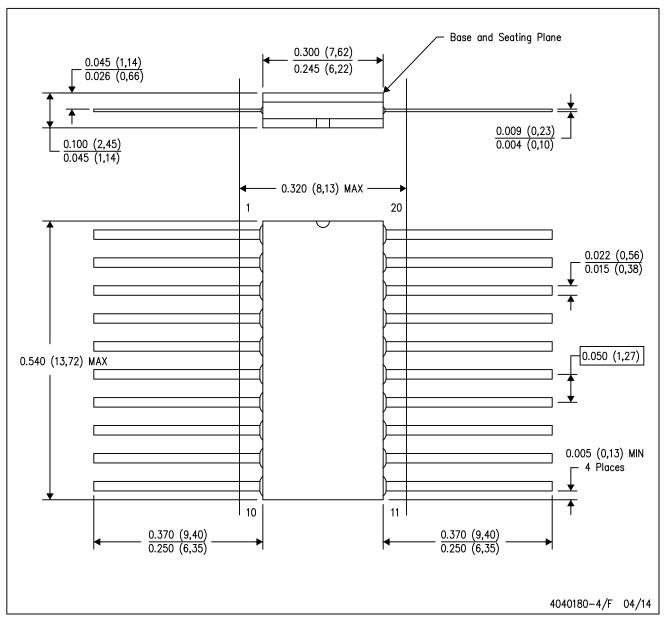
14 LEADS SHOWN



- 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-F20)

CERAMIC DUAL FLATPACK



- A. All linear dimensions are in inches (millimeters).
- 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 GDFP2—F20



FK (S-CQCC-N**)

LEADLESS CERAMIC CHIP CARRIER

28 TERMINAL SHOWN



- 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. Falls within JEDEC MS-004



N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN

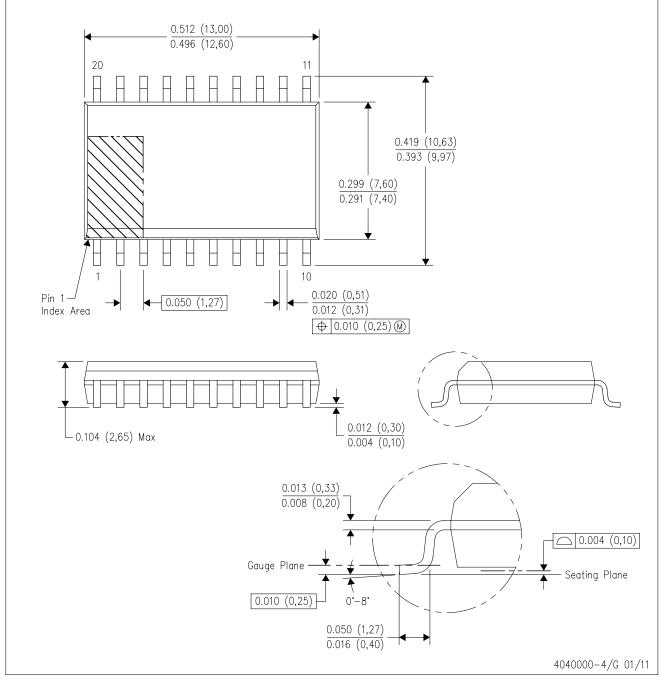


- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.



DW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



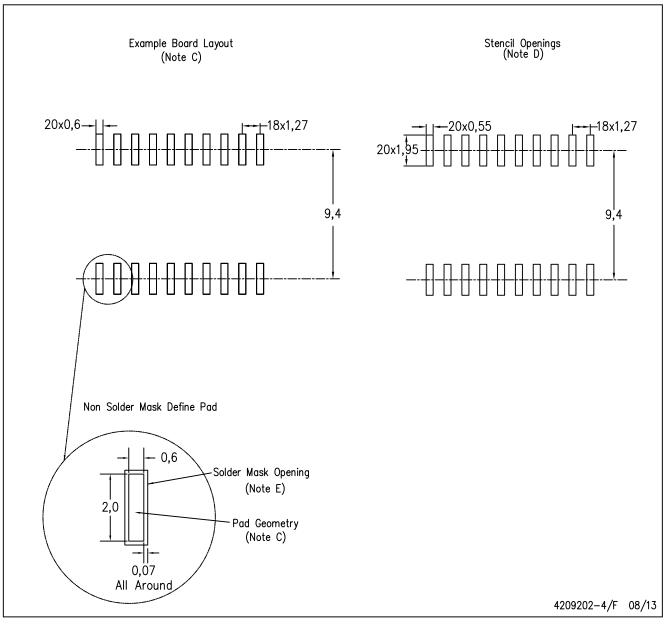
NOTES: A. All linear dimensions are in inches (millimeters). Dimensioning and tolerancing per ASME Y14.5M-1994.

- 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-013 variation AC.



DW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Refer to IPC7351 for alternate board design.
- 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
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



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