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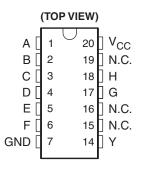
SDAS010D-APRIL 1982-REVISED APRIL 2009

8-INPUT POSITIVE-NAND GATES

FEATURES

- 8-Input Positive-NAND Gates
- · Available in J, DW, N, and FK Packages

SN54ALS30A, SN54AS30 . . . J PACKAGE SN74ALS30A, SN74AS30 . . . DW OR N PACKAGE SN74AS30 . . . DB PACKAGE

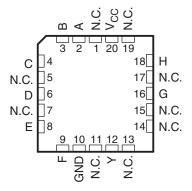


DESCRIPTION

These devices contain an 8-input positive-NAND gate and perform the following Boolean functions in positive logic:

$$Y = \overline{A \cdot B \cdot C \cdot D \cdot E \cdot F \cdot G \cdot H}$$
or
$$Y = \overline{A} + \overline{B} + \overline{C} + \overline{D} + \overline{E} + \overline{F} + \overline{G}$$

SN54ALS30A, SN54AS30 . . . FK PACKAGE (TOP VIEW)



N.C. - No internal connection

ORDERING INFORMATION

T _A	PACKA	PACKAGE ⁽¹⁾⁽²⁾ ORDERABLE P		TOP-SIDE MARKING
	PDIP – N	Tube	SN74ALS30AN	SN74ALS30AN
	PDIP - N	rube	SN74AS30N	SN74AS30N
		Tube	SN74AS30AD	A1 C20A
0°C to 70°C	SOIC - D	Tape and reel	SN74ALS30ADR	ALS30A
		Tube	SN74AS30D	AS30
		Tape and reel	SN74AS30DR	A530
	SSOP - DB	Tape and reel	SN74AS30DBR	AS30
	CDIP – J	Tube	SNJ54ALS30AJ	SNJ54ALS30AJ
–55°C to 125°C	CDIP – J	rube	SNJ54AS30J	SNJ54AS30J
-55 0 10 125 0	1,000 EV	Tube	SNJ54ALS30AFK	SNJ54ALS30AFK
	LCCC –FK	Tube	SNJ54AS30FK	SNJ54AS30FK

⁽¹⁾ Package drawings, thermal data, and symbolization are available at www.ti.com/packaging.



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.

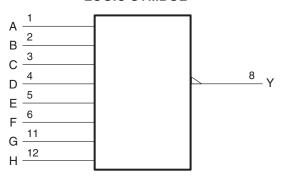
⁽²⁾ For the most current package and ordering information, see the Package Option Addendum at the end of this document, or see the TI website at www.ti.com.



FUNCTION TABLE

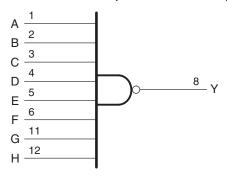
INPUTS A-H	OUTPUT Y
All inputs H	L
One or more inputs L	Н

LOGIC SYMBOL(A)



A. This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12. Pin number shown are for the D, DB, J, and N packages.

LOGIC DIAGRAM (POSITIVE LOGIC)



Pin number shown are for the D, DB, J, and N packages.

ABSOLUTE MAXIMUM RATINGS(1)

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

			MIN	MAX	UNIT
V_{CC}	Supply voltage range		-0.5	7	V
V_{I}	Input voltage range		-0.5	7	V
		D package		86	
θ_{JA}	Package thermal impedance ⁽²⁾	DB package		96	°C/W
			80		
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 package thermal impedance is calculated in accordance with JESD 51-7.



RECOMMENDED OPERATING CONDITIONS

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

			MIN	NOM	MAX	UNIT
V _{CC}	Supply voltage		4.5	5	5.5	V
V_{IH}	High-level input voltage		2			V
V _{IL}	Low-level input voltage	_			0.8 ⁽¹⁾ 0.7 ⁽²⁾	V
	I Park I seed and seed as seed	'ALS30A			-0.4	Λ
I _{OH}	High-level output current	'AS30			-2	mA
		SN54ALS30A			4	
I_{OL}	Low-level output current	SN74ALS30A			8	mA
		'AS30			20	
-	Operating free air temperature	SN54ALS30A, SN54AS30	- 55		125	°C
T_A	Operating free-air temperature	SN74ALS30A, SN74AS30	0		70	-0

Applies to the 'AS30 and SN74ALS30A across the full operating temperature range, and SN54ALS30A over the temperature range of –55C to 7C.

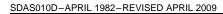
ELECTRICAL CHARACTERISTICS

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

PARAMETER		TEST CONDITION	IS	MIN	TYP ⁽¹⁾	MAX	UNIT	
V	V 45 V	1 10 m A	'ALS30A			1.5	V	
V _{IK}	$V_{CC} = 4.5 \text{ V},$	$I_I = -18 \text{ mA}$	'AS30			-1.5	V	
W	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V},$	$I_{OH} = -0.4 \text{ mA}$	'ALS30A	V _{CC} – 2			V	
V _{OH}	$v_{CC} = 4.5 \text{ V } 10 \text{ 5.5 V},$	$I_{OH} = -2 \text{ mA}$	'AS30	V _{CC} – 2			V	
		I _{OL} = 4 mA	'ALS30A		0.25	0.4		
V _{OL}	$V_{CC} = 4.5 \text{ V}$	I _{OL} = 8 mA	SN74ALS30A		0.35	0.5	V	
		I _{OL} = 20 mA	'AS30		0.35	0.5		
I _I	V _{CC} = 5.5 V,	V _I = 7 V	·			0.1	mA	
I _{IH}	V _{CC} = 5.5 V,	V _I = 2.7 V				20	μΑ	
	V _{CC} = 5.5 V,	V 0.4V	'ALS30A			-0.1	mA	
I _{IL}		$V_1 = 0.4 \ V$	'AS30			-0.5		
			SN54ALS30A	-20		-112	mA	
l _O ⁽²⁾	$V_{CC} = 5.5 V,$	$V_0 = 2.25 \text{ V}$	SN74ALS30A	-30		-112		
			'AS30	-30		-112		
	V FFV	V 0.V	'ALS30A		0.22	0.36		
Іссн	$V_{CC} = 5.5 \text{ V},$	$V_I = 0 V$	'AS30		0.9	1.5	mA	
1	V _{CC} = 5.5 V,	\/ 4 E \/	'ALS30A		0.54	0.9	mA	
I _{CCL}		$V_{I} = 4.5 \text{ V}$	'AS30		3	4.9		

Applies to the SN54ALS30A over the temperature range of 70C to 125C.

All typical values are at $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$. The output conditions have been chosen to produce a current that closely approximates one half of the true short-circuit output current, los.





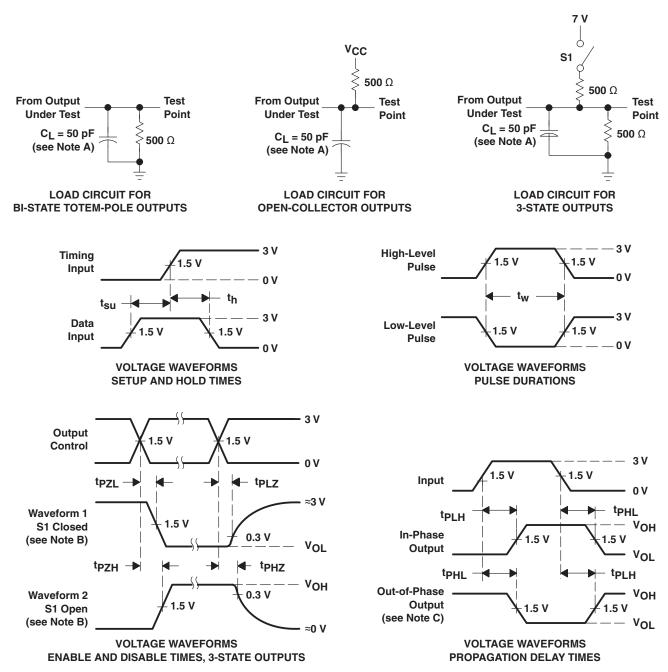
SWITCHING CHARACTERISTICS

over recommended operating conditions (unless otherwise noted (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)		MIN	MAX	UNIT
t _{РLН}		Y	SN54ALS30A	3	15	
	A, B, C, D, E, F, G, or		SN74ALS30A	3	10	ns
	Н		SN54AS30	1	5.5	
			SN74AS30	1	5	
		Y	SN54ALS30A	3	15	ns
	A, B, C, D, E, F, G, or		SN74ALS30A	3	12	
t _{PHL}	H		SN54AS30	1	5	
			SN74AS30	1	4.5	



PARAMETER MEASUREMENT INFORMATION



- 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, $t_r = t_f = 2$ 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



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PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
5962-86837012A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type
5962-8683701DA	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type
5962-9755801Q2A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type
5962-9755801QCA	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type
JM38510/37004B2A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type
JM38510/37004BCA	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type
SN54ALS30AJ	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type
SN54AS30J	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type
SN74ALS30AD	NRND	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALS30ADE4	NRND	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALS30ADG4	NRND	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALS30ADR	NRND	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALS30ADRE4	NRND	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALS30ADRG4	NRND	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALS30AN	NRND	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74ALS30AN3	OBSOLETE	PDIP	N	14		TBD	Call TI	Call TI
SN74ALS30ANE4	NRND	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74ALS30ANSR	NRND	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALS30ANSRE4	NRND	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALS30ANSRG4	NRND	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AS30D	NRND	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AS30DBR	NRND	SSOP	DB	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AS30DBRE4	NRND	SSOP	DB	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AS30DBRG4	NRND	SSOP	DB	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AS30DE4	NRND	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AS30DG4	NRND	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AS30DR	NRND	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AS30DRE4	NRND	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AS30DRG4	NRND	SOIC	D	14	2500	Green (RoHS &	CU NIPDAU	Level-1-260C-UNLIM

PACKAGE OPTION ADDENDUM

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Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
						no Sb/Br)		
SN74AS30N	NRND	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74AS30NE4	NRND	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74AS30NSR	NRND	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AS30NSRE4	NRND	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AS30NSRG4	NRND	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SNJ54ALS30AFK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type
SNJ54ALS30AJ	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type
SNJ54ALS30AW	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type
SNJ54AS30FK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type
SNJ54AS30J	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type

 $^{^{(1)}}$ 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.

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PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





	Dimension designed to accommodate the component width
B0	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

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*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
SN74ALS30ADR	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
SN74ALS30ANSR	SO	NS	14	2000	330.0	16.4	8.2	10.5	2.5	12.0	16.0	Q1
SN74AS30DBR	SSOP	DB	14	2000	330.0	16.4	8.2	6.6	2.5	12.0	16.0	Q1
SN74AS30DR	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
SN74AS30NSR	SO	NS	14	2000	330.0	16.4	8.2	10.5	2.5	12.0	16.0	Q1

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*All dimensions are nominal

7 til diffictioiono are nominal							
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ALS30ADR	SOIC	D	14	2500	346.0	346.0	33.0
SN74ALS30ANSR	SO	NS	14	2000	346.0	346.0	33.0
SN74AS30DBR	SSOP	DB	14	2000	346.0	346.0	33.0
SN74AS30DR	SOIC	D	14	2500	346.0	346.0	33.0
SN74AS30NSR	SO	NS	14	2000	346.0	346.0	33.0

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-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

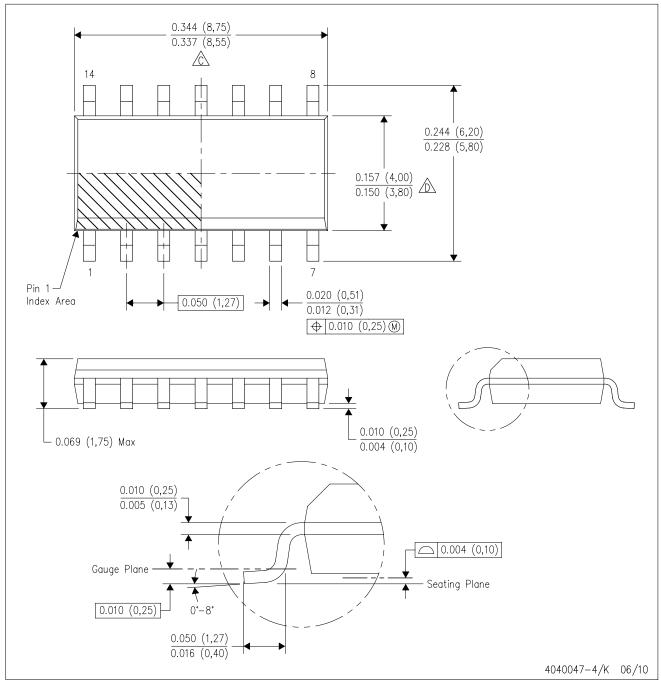


- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.



D (R-PDSO-G14)

PLASTIC SMALL-OUTLINE PACKAGE

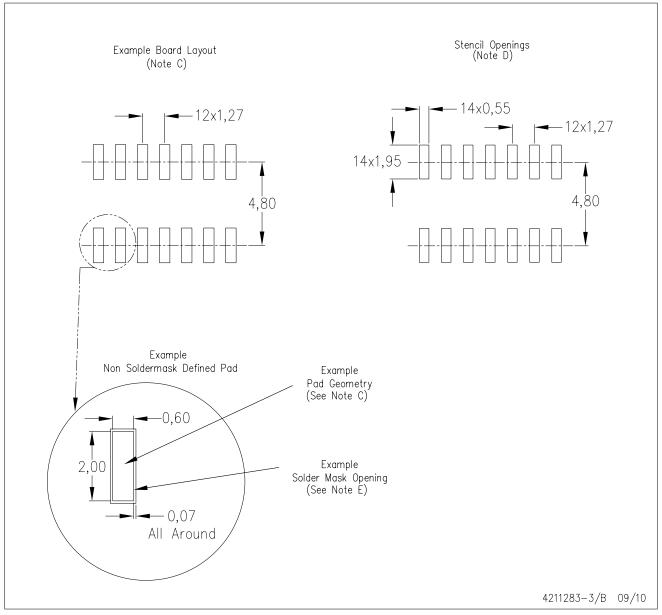


- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed .006 (0,15) per end.
- Body width does not include interlead flash. Interlead flash shall not exceed .017 (0,43) per side.
- E. Reference JEDEC MS-012 variation AB.



D (R-PDSO-G14)

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

NS (R-PDSO-G**)

14-PINS SHOWN

PLASTIC SMALL-OUTLINE PACKAGE



- 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

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