

FEATURES

- Operates From 1.65 V to 3.6 V
- Max t_{pd} of 2.9 ns at 3.3 V
- ±24-mA Output Drive at 3.3 V
- Latch-Up Performance Exceeds 250 mA Per JESD 17
- ESD Protection Exceeds JESD 22
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)
 - 1000-V Charged-Device Model (C101)

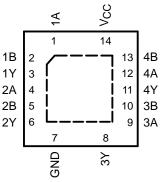
DESCRIPTION/ORDERING INFORMATION

This quadruple 2-input positive-AND gate is designed for 1.65-V to 3.6-V V_{CC} operation.

The device performs the Boolean function $Y = A \cdot B$ or $Y = \overline{\overline{A} + \overline{B}}$ in positive logic.

D, DGV, NS, OR PW PACKAGE (TOP VIEW)											
1A [1B [1Y [2A [2B [2Y [1 2 3 4 5 6	U 14 13 12 11 10 9	V _{CC} 4B 4A 4Y 3B 3A								
GND [1	8	3Y								





ORDERING INFORMATION

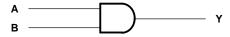
T _A	PAC	KAGE ⁽¹⁾	ORDERABLE PART NUMBER	TOP-SIDE MARKING	
	QFN - RGY	Tape and reel	SN74ALVC08RGYR	VA08	
	SOIC - D	Tube	SN74ALVC08D		
4000 to 0500	50IC - D	Tape and reel	SN74ALVC08DR	ALVC08	
-40°C to 85°C	SOP - NS	Tape and reel	SN74ALVC08NSR	ALVC08	
	TSSOP - PW	Tape and reel	SN74ALVC08PWR	VA08	
	TVSOP - DGV	Tape and reel	SN74ALVC08DGVR	VA08	

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

FUNCTION TABLE
(each gate)

INPU	OUTPUT	
Α	В	Y
Н	Н	Н
L	Х	L
Х	L	L

LOGIC DIAGRAM, EACH GATE (POSITIVE LOGIC)





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.



ABSOLUTE MAXIMUM RATINGS⁽¹⁾

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

			MIN	MAX	UNIT
V_{CC}	Supply voltage range		-0.5	4.6	V
VI	Input voltage range ⁽²⁾		-0.5	4.6	V
Vo	Output voltage range ⁽²⁾⁽³⁾		-0.5	V _{CC} + 0.5	V
I _{IK}	Input clamp current	V ₁ < 0		-50	mA
I _{OK}	Output clamp current	V _O < 0		-50	mA
lo	Continuous output current			±50	mA
	Continuous current through V _{CC} or GI	ND		±100	mA
		D package ⁽⁴⁾		86	
		DGV package ⁽⁴⁾		127	
θ_{JA}	Package thermal impedance	NS package ⁽⁴⁾		76	°C/W
		PW package ⁽⁴⁾		113	
		RGY package ⁽⁵⁾		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.

The input negative-voltage and output voltage ratings may be exceeded if the input and output current ratings are observed. This value is limited to 4.6 V maximum. (2)

(3)

(0) (4) (5) The package thermal impedance is calculated in accordance with JESD 51-7. The package thermal impedance is calculated in accordance with JESD 51-5.

RECOMMENDED OPERATING CONDITIONS⁽¹⁾

			MIN	MAX	UNIT
V _{CC}	Supply voltage		1.65	3.6	V
		V _{CC} = 1.65 V to 1.95 V	$0.65 imes V_{CC}$		
V _{IH}	High-level input voltage	V_{CC} = 2.3 V to 2.7 V	1.7		V
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	2		
		V _{CC} = 1.65 V to 1.95 V		$0.35 \times V_{CC}$	
V _{IL}	Low-level input voltage	V_{CC} = 2.3 V to 2.7 V		0.7	V
	$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$			0.8	
VI	Input voltage		0	3.6	V
Vo	Output voltage		0	V _{CC}	V
		V _{CC} = 1.65 V		-4	
	High-level output current	$V_{CC} = 2.3 V$		-12	~ ^
I _{OH}		$V_{CC} = 2.7 V$		-12	mA
		V _{CC} = 3 V		-24	
		V _{CC} = 1.65 V		4	
	Low lovel output compate	V _{CC} = 2.3 V		12	
I _{OL}	Low-level output current	$V_{CC} = 2.7 V$		12	mA
		$V_{CC} = 3 V$		24	
$\Delta t/\Delta v$	Input transition rise or fall rate			5	ns/V
T _A	Operating free-air temperature		-40	85	°C

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, (1) Implications of Slow or Floating CMOS Inputs, literature number SCBA004.

ELECTRICAL CHARACTERISTICS

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

PARAMETER	TEST CO	NDITIONS	V _{cc}	MIN	TYP ⁽¹⁾	MAX	UNIT
	I _{OH} = -100 μA		1.65 V to 3.6 V	V _{CC} - 0.2			
	I _{OH} = -4 mA		1.65 V	1.2			
	I _{OH} = -6 mA		2.3 V	2			
V _{OH}			2.3 V	1.7			V
	I _{OH} = -12 mA		2.7 V	2.2			
			3 V	2.4			
	I _{OH} = -24 mA		3 V	2			
	I _{OL} = 100 μA		1.65 V to 3.6 V			0.2	
	$I_{OL} = 4 \text{ mA}$		1.65 V			0.45	
M	$I_{OL} = 6 \text{ mA}$		2.3 V			0.4	V
V _{OL}	1 10 m 4		2.3 V			0.7	v
	I _{OL} = 12 mA		2.7 V			0.4	
	I _{OL} = 24 mA		3 V			0.55	
l	$V_{I} = V_{CC}$ or GND		3.6 V			±5	μA
I _{CC}	$V_{I} = V_{CC}$ or GND,	l _O = 0	3.6 V			10	μA
ΔI_{CC}	One input at V _{CC} - 0.6 V,	Other inputs at V_{CC} or GND	3 V to 3.6 V			750	μA
Ci	$V_{I} = V_{CC}$ or GND		3.3 V		4.5		pF

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

SWITCHING CHARACTERISTICS

over recommended operating free-air temperature range (unless otherwise noted) (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 1 ± 0.15		V _{CC} = 2 ± 0.2		V _{CC} =	2.7 V	V _{CC} = ± 0.3	3.3 V 3 V	UNIT
	(INPUT)		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	A or B	Y	1.2	5.3	1	3.2		3	1.2	2.9	ns

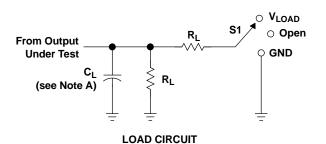
OPERATING CHARACTERISTICS

 $T_A = 25^{\circ}C$

	PARAMETER		ONDITIONS	V _{CC} = 1.8 V TYP	V _{CC} = 2.5 V TYP	V _{CC} = 3.3 V TYP	UNIT
C _{pd}	Power dissipation capacitance per gate	$C_{L} = 0,$	f = 10 MHz	24	25	26	pF

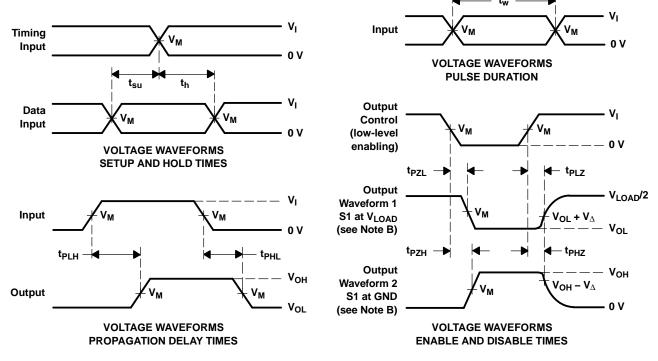


PARAMETER MEASUREMENT INFORMATION



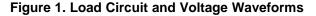
TEST	S1
t _{pd}	Open
t _{PLZ} /t _{PZL}	V _{LOAD}
t _{PHZ} /t _{PZH}	GND

Γ	V	IN	PUT	V	v	<u>^</u>	Р	V
	v _{cc}	VI	t _r /t _f	V _M	V _{LOAD}	CL	RL	V_Δ
Γ	1.8 V \pm 0.15 V	V _{CC}	≤2 ns	V _{CC} /2	$2 \times V_{CC}$	30 pF	1 k Ω	0.15 V
	2.5 V \pm 0.2 V	V _{CC}	≤2 ns	V _{CC} /2	$2 \times V_{CC}$	30 pF	500 Ω	0.15 V
	2.7 V	2.7 V	≤2.5 ns	1.5 V	6 V	50 pF	500 Ω	0.3 V
	3.3 V \pm 0.3 V	2.7 V	≤2.5 ns	1.5 V	6 V	50 pF	500 Ω	0.3 V



NOTES: A. CL 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 MHz, Z_O = 50 Ω .
- D. The outputs are measured one at a time, with one transition per measurement.
- E. t_{PLZ} and t_{PHZ} are the same as t_{dis} .
- F. t_{PZL} and t_{PZH} are the same as t_{en} .
- G. t_{PLH} and t_{PHL} are the same as t_{pd} .
- H. All parameters and waveforms are not applicable to all devices.



18-Sep-2008

PACKAGING INFORMATION

NTS

TEXAS

FRUME www.ti.com

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
SN74ALVC08D	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALVC08DE4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALVC08DG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALVC08DGVR	ACTIVE	TVSOP	DGV	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALVC08DGVRE4	ACTIVE	TVSOP	DGV	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALVC08DGVRG4	ACTIVE	TVSOP	DGV	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALVC08DR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALVC08DRE4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALVC08DRG4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALVC08NSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALVC08NSRE4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALVC08NSRG4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALVC08PWR	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALVC08PWRE4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALVC08PWRG4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74ALVC08RGYR	ACTIVE	QFN	RGY	14	1000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
SN74ALVC08RGYRG4	ACTIVE	QFN	RGY	14	1000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR

⁽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



18-Sep-2008

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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OTHER QUALIFIED VERSIONS OF SN74ALVC08 :

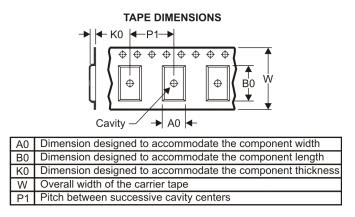
- Automotive: SN74ALVC08-Q1
- Enhanced Product: SN74ALVC08-EP

NOTE: Qualified Version Definitions:

- Automotive Q100 devices qualified for high-reliability automotive applications targeting zero defects
- Enhanced Product Supports Defense, Aerospace and Medical Applications

TAPE AND REEL INFORMATION





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
SN74ALVC08DGVR	TVSOP	DGV	14	2000	330.0	12.4	6.8	4.0	1.6	8.0	12.0	Q1
SN74ALVC08DR	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
SN74ALVC08NSR	SO	NS	14	2000	330.0	16.4	8.2	10.5	2.5	12.0	16.0	Q1
SN74ALVC08PWR	TSSOP	PW	14	2000	330.0	12.4	7.0	5.6	1.6	8.0	12.0	Q1
SN74ALVC08RGYR	QFN	RGY	14	1000	180.0	12.4	3.85	3.85	1.35	8.0	12.0	Q1



PACKAGE MATERIALS INFORMATION

19-Mar-2008



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ALVC08DGVR	TVSOP	DGV	14	2000	346.0	346.0	29.0
SN74ALVC08DR	SOIC	D	14	2500	346.0	346.0	33.0
SN74ALVC08NSR	SO	NS	14	2000	346.0	346.0	33.0
SN74ALVC08PWR	TSSOP	PW	14	2000	346.0	346.0	29.0
SN74ALVC08RGYR	QFN	RGY	14	1000	190.5	212.7	31.8

MTSS001C - JANUARY 1995 - REVISED FEBRUARY 1999

PW (R-PDSO-G**)

PLASTIC SMALL-OUTLINE PACKAGE

14 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-153



PLASTIC SMALL-OUTLINE PACKAGE

0,51 0,35 ⊕0,25⊛ 1,27 8 14 0,15 NOM 5,60 8,20 5,00 7,40 \bigcirc Gage Plane ₽ 0,25 7 1 1,05 0,55 0°-10° Δ 0,15 0,05 Seating Plane — 2,00 MAX 0,10PINS ** 14 16 20 24 DIM 10,50 10,50 12,90 15,30 A MAX A MIN 9,90 9,90 12,30 14,70 4040062/C 03/03

NOTES: A. All linear dimensions are in millimeters.

NS (R-PDSO-G**)

14-PINS SHOWN

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15.



PLASTIC SMALL-OUTLINE

MPDS006C - FEBRUARY 1996 - REVISED AUGUST 2000

DGV (R-PDSO-G**)

24 PINS SHOWN



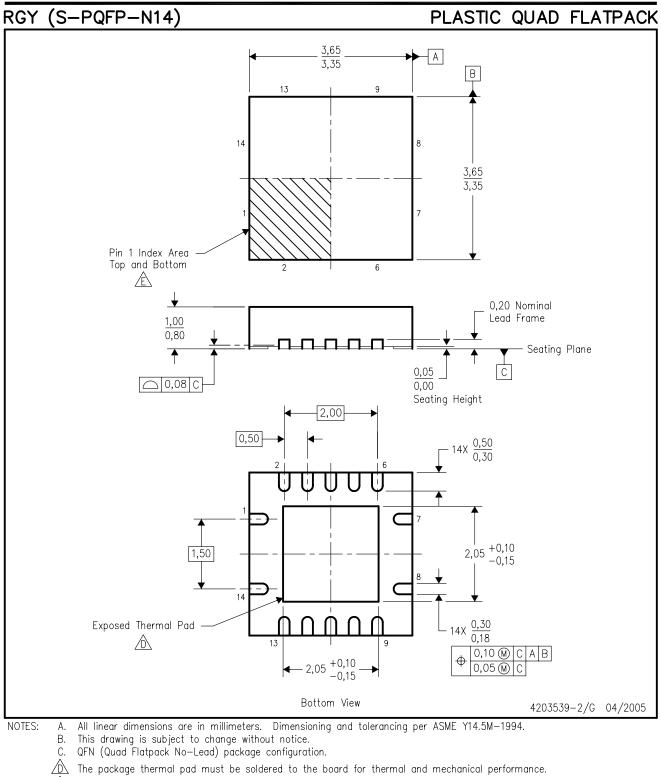
NOTES: A. All linear dimensions are in millimeters.

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





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.





THERMAL PAD MECHANICAL DATA

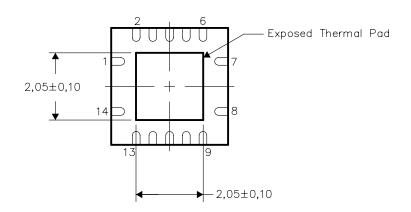
RGY (S-PQFP-N14)

THERMAL INFORMATION

This package incorporates an exposed thermal pad that is designed to be attached directly to an external heatsink. The thermal pad must be soldered directly to the printed circuit board (PCB). After soldering, the PCB can be used as a heatsink. In addition, through the use of thermal vias, the thermal pad can be attached directly to the appropriate copper plane shown in the electrical schematic for the device, or alternatively, can be attached to a special heatsink structure designed into the PCB. This design optimizes the heat transfer from the integrated circuit (IC).

For information on the Quad Flatpack No-Lead (QFN) package and its advantages, refer to Application Report, Quad Flatpack No-Lead Logic Packages, Texas Instruments Literature No. SCBA017. This document is available at www.ti.com.

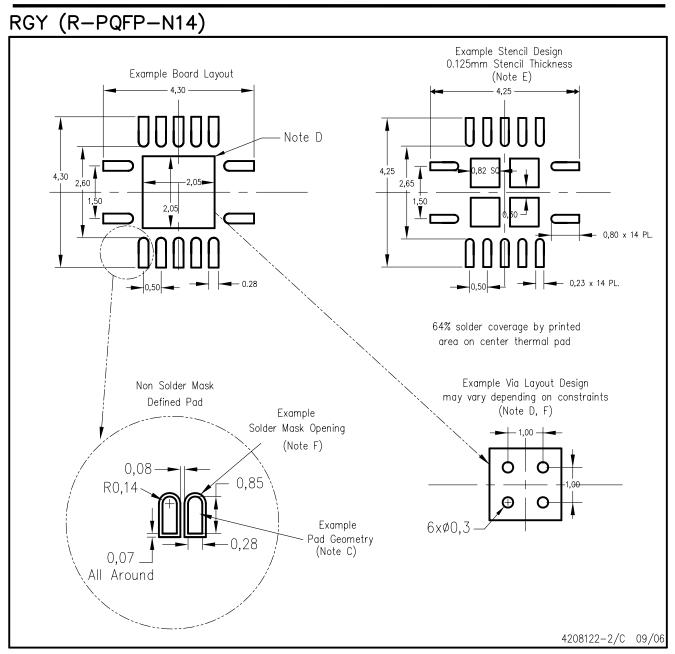
The exposed thermal pad dimensions for this package are shown in the following illustration.





NOTE: All linear dimensions are in millimeters

Exposed Thermal Pad Dimensions



NOTES: 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. This package is designed to be soldered to a thermal pad on the board. Refer to Application Note, Quad Flat-Pack Packages, Texas Instruments Literature No. SCBA017, SLUA271, and also the Product Data Sheets for specific thermal information, via requirements, and recommended board layout. These documents are available at www.ti.com http://www.ti.com.
- E. 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 stencil design considerations.
- F. Customers should contact their board fabrication site for minimum solder mask web tolerances between signal pads.



D (R-PDSO-G14)

PLASTIC SMALL-OUTLINE PACKAGE



NOTES: 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.



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