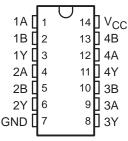
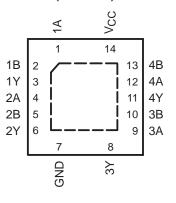
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- 2-V to 5.5-V V_{CC} Operation
- Max t_{pd} of 7 ns at 5 V
- Typical V_{OLP} (Output Ground Bounce)
 <0.8 V at V_{CC} = 3.3 V, T_A = 25°C
- Typical V_{OHV} (Output V_{OH} Undershoot)
 >2.3 V at V_{CC} = 3.3 V, T_A = 25°C
- Support Mixed-Mode Voltage Operation on All Ports
- I_{off} Supports Partial-Power-Down Mode Operation
- 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)

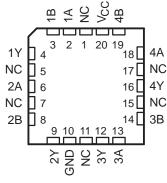
SN54LV08A . . . J OR W PACKAGE SN74LV08A . . . D, DB, DGV, NS, OR PW PACKAGE (TOP VIEW)



SN74LV08A . . . RGY PACKAGE (TOP VIEW)



SN54LV08A . . . FK PACKAGE (TOP VIEW)



NC - No internal connection

description/ordering information

These quadruple 2-input positive-AND gates are designed for 2-V to 5.5-V V_{CC} operation. The 'LV08A devices perform the Boolean function $Y = A \bullet B$ or $Y = \overline{A + B}$ in positive logic.

These devices are fully specified for partial-power-down applications using I_{off}. The I_{off} circuitry disables the outputs, preventing damaging current backflow through the devices when they are powered down.

ORDERING INFORMATION

TA	PACK	AGET	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	QFN – RGY	Reel of 1000	SN74LV08ARGYR	LV08A
	colo p	Tube of 50	SN74LV08AD	11/004
	SOIC - D	Reel of 2500	SN74LV08ADR	LV08A
	SOP – NS	Reel of 2000	SN74LV08ANSR	74LV08A
-40°C to 85°C	SSOP – DB	Reel of 2000	SN74LV08ADBR	LV08A
		Tube of 90	SN74LV08APW	
	TSSOP - PW	Reel of 2000	SN74LV08APWR	LV08A
		Reel of 250	SN74LV08APWT	
	TVSOP - DGV	Reel of 2000	SN74LV08ADGVR	LV08A
	CDIP – J	Tube of 25	SNJ54LV08AJ	SNJ54LV08AJ
-55°C to 125°C	CFP – W	Tube of 150	SNJ54LV08AW	SNJ54LV08AW
	LCCC – FK	Tube of 55	SNJ54LV08AFK	SNJ54LV08AFK

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



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FUNCTION TABLE (each gate)

INP	JTS	OUTPUT
Α	В	Υ
Н	Н	Н
L	Χ	L
Х	L	L

logic diagram, each gate (positive logic)



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

Supply voltage range, V _{CC}	
Input voltage range, V _I (see Note 1)	\dots -0.5 V to 7 V
Voltage range applied to any output in the high-impedance	
or power-off state, V _O (see Note 1)	0.5 V to 7 V
Output voltage range, VO (see Notes 1 and 2)	V to V_{CC} + 0.5 V
Input clamp current, I _{IK} (V _I < 0)	–20 mA
Output clamp current, I _{OK} (V _O < 0)	–50 mA
Continuous output current, I_O ($V_O = 0$ to V_{CC})	±25 mA
Continuous current through V _{CC} or GND	±50 mA
Package thermal impedance, θ _{JA} (see Note 3): D package	86°C/W
(see Note 3): DB package	
(see Note 3): DGV package	127°C/W
(see Note 3): NS package	
(see Note 3): PW package	113°C/W
(see Note 4): RGY package	
Storage temperature range, T _{stq}	

[†] 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 negative-voltage ratings may be exceeded if the input and output current ratings are observed.
 - 2. This value is limited to 5.5 V maximum.
 - 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 (see Note 5)

			SN54	LV08A	SN74I	LV08A	LINUT
			MIN	MAX	MIN	MAX	UNIT
Vcc	Supply voltage		2	5.5	2	5.5	V
		V _{CC} = 2 V	1.5		1.5		
	High Javalianut valtana	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	V _{CC} ×0.7		V _{CC} ×0.7		V
VIH	High-level input voltage	$V_{CC} = 3 \text{ V to } 3.6 \text{ V}$	$V_{CC} \times 0.7$		$V_{CC} \times 0.7$		V
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	$V_{CC} \times 0.7$		$V_{CC} \times 0.7$		
		V _{CC} = 2 V		0.5		0.5	
.,	Lauria de la constantina della	V _{CC} = 2.3 V to 2.7 V		$V_{CC} \times 0.3$		$V_{CC} \times 0.3$	V
V_{IL}	Low-level input voltage	V _{CC} = 3 V to 3.6 V		V _{CC} × 0.3		$V_{CC} \times 0.3$	V
		V _{CC} = 4.5 V to 5.5 V		$V_{CC} \times 0.3$		$V_{CC} \times 0.3$	
٧ı	Input voltage		0	5.5	0	5.5	V
Vo	Output voltage		0 ,	Vcc	0	VCC	V
		V _{CC} = 2 V	3	-50		-50	μΑ
	I liab laval autout aumant	V _{CC} = 2.3 V to 2.7 V	90	-2		-2	
ЮН	High-level output current	V _{CC} = 3 V to 3.6 V	Q	-6		-6	mA
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$		-12		-12	
		V _{CC} = 2 V		50		50	μΑ
	Law law day day a summer	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		2		2	
lOL	Low-level output current	$V_{CC} = 3 \text{ V to } 3.6 \text{ V}$		6		6	mA
		V _{CC} = 4.5 V to 5.5 V		12		12	
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		200		200	
Δt/Δν	Input transition rise or fall rate	$V_{CC} = 3 \text{ V to } 3.6 \text{ V}$		100		100	ns/V
		V _{CC} = 4.5 V to 5.5 V		20		20	
TA	Operating free-air temperature		-55	125	-40	85	°C

NOTE 5: 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.

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

DADAMETED	TEST CONDITIONS	.,	SN5	4LV08A	SN7	4LV08A		UNIT
PARAMETER	TEST CONDITIONS	VCC	MIN	TYP MAX	MIN	TYP	MAX	UNII
	$I_{OH} = -50 \mu A$	2 V to 5.5 V	V _{CC} -0.1		V _{CC} -0.1			
V	$I_{OH} = -2 \text{ mA}$	2.3 V	2		2			V
Voн	$I_{OH} = -6 \text{ mA}$	3 V	2.48		2.48			V
	I _{OH} = -12 mA	4.5 V	3.8	3	3.8			
	I _{OL} = 50 μA	2 V to 5.5 V		0.1			0.1	
V	I _{OL} = 2 mA	2.3 V		0.4			0.4	V
VOL	I _{OL} = 6 mA	3 V	ć	0.44			0.44	V
	$I_{OL} = 12 \text{ mA}$	4.5 V	200	0.55			0.55	
ΙĮ	V _I = 5.5 V or GND	0 to 5.5 V	30	±1			±1	μΑ
Icc	$V_I = V_{CC}$ or GND, $I_O = 0$	5.5 V	Q.	20			20	μΑ
loff	V_I or $V_O = 0$ to 5.5 V	0		5			5	μΑ
C	Vi – Voc or CND	3.3 V		3.3		3.3		pF
C _i	V _I = V _{CC} or GND	5 V		3.3		3.3		þг



SN54LV08A, SN74LV08A QUADRUPLE 2-INPUT POSITIVE-AND GATES

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switching characteristics over recommended operating free-air temperature range, V_{CC} = 2.5 V \pm 0.2 V (unless otherwise noted) (see Figure 1)

DADAMETED	FROM	то	LOAD	T,	4 = 25°C	;	SN54LV08A	SN74L	V08A	
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN MAX	MIN	MAX	UNIT
to a	A or B	ν.	C _L = 15 pF		7.9*	13.8*	1* 17*	1	16	
^t pd	AUID	ī	C _L = 50 pF		10.5	17.3	1 21	1	20	ns

^{*} On products compliant to MIL-PRF-38535, this parameter is not production tested.

switching characteristics over recommended operating free-air temperature range, V_{CC} = 3.3 V \pm 0.3 V (unless otherwise noted) (see Figure 1)

242445	FROM	то	LOAD	T,	ղ = 25°C	;	SN54LV08A	SN74L	.V08A	
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN MAX	MIN	MAX	UNIT
t	A or B	V	C _L = 15 pF		5.6*	8.8*	1 * 11.5*	1	10.5	
^t pd	AUIB	Ť	C _L = 50 pF		7.5	12.3	1 15	1	14	ns

^{*} On products compliant to MIL-PRF-38535, this parameter is not production tested.

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 CAPACITANCE	T _A = 25°C			SN54LV08A	SN74LV08A		LINUT
PARAMETER	(INPUT)	(OUTPUT)		MIN	TYP	MAX	MIN MAX	MIN	MAX	UNIT
	A or B	V	C _L = 15 pF		4.1*	5.9*	1* 8*	1	7	no
^t pd	AUB	r	C _L = 50 pF		5.5	7.9	10	1	9	ns

^{*} On products compliant to MIL-PRF-38535, this parameter is not production tested.

noise characteristics, $V_{CC} = 3.3 \text{ V}$, $C_L = 50 \text{ pF}$, $T_A = 25^{\circ}\text{C}$ (see Note 6)

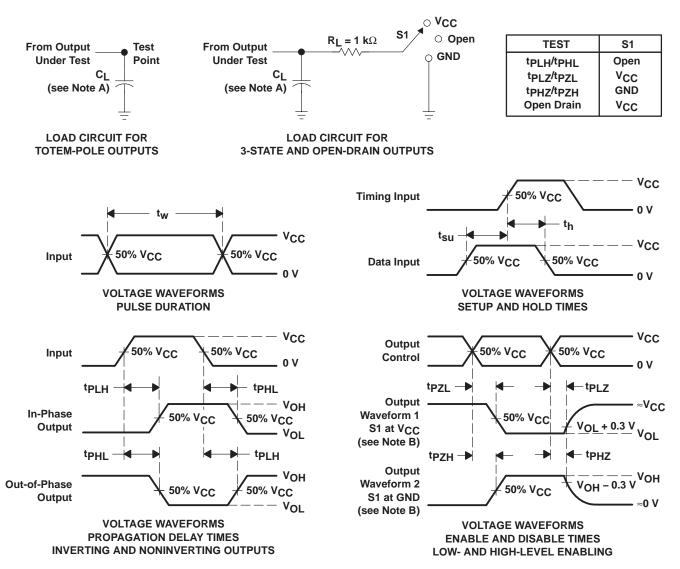
	DADAMETED	SN	SN74LV08A			
	PARAMETER	MIN	TYP	MAX	UNIT	
V _{OL(P)}	Quiet output, maximum dynamic V _{OL}		0.2	0.8	V	
V _{OL} (V)	Quiet output, minimum dynamic VOL		-0.1	-0.8	V	
VOH(V)	Quiet output, minimum dynamic VOH		3.1		V	
VIH(D)	High-level dynamic input voltage	2.31			V	
V _{IL(D)}	Low-level dynamic input voltage			0.99	V	

NOTE 6: Characteristics are for surface-mount packages only.

operating characteristics, T_A = 25°C

		PARAMETER	TEST CO	VCC	TYP	UNIT	
ľ	Cnd Power dissipation capacitance	C. F0 pF	f = 10 MHz	3.3 V	8	, F	
L	Cpd	Power dissipation capacitance	$C_L = 50 pF$,	I = 10 IVID2	5 V	10	p⊦

PARAMETER MEASUREMENT INFORMATION



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 1 MHz, $Z_Q = 50 \Omega$, $t_f \leq 3$ ns, $t_f \leq 3$ ns.
- D. The outputs are measured one at a time, with one input transition per measurement.
- E. tpLZ and tpHZ are the same as tdis.
- F. tpZL and tpZH are the same as ten.
- G. tpHL and tpLH are the same as tpd.
- H. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms





PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
SN74LV08AD	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08ADBLE	OBSOLETE	SSOP	DB	14		TBD	Call TI	Call TI
SN74LV08ADBR	ACTIVE	SSOP	DB	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08ADBRE4	ACTIVE	SSOP	DB	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08ADBRG4	ACTIVE	SSOP	DB	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08ADE4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08ADG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08ADGVR	ACTIVE	TVSOP	DGV	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08ADGVRE4	ACTIVE	TVSOP	DGV	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08ADGVRG4	ACTIVE	TVSOP	DGV	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08ADR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08ADRE4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08ADRG4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08ANSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08ANSRE4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08ANSRG4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08APW	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08APWE4	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08APWG4	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08APWLE	OBSOLETE	TSSOP	PW	14		TBD	Call TI	Call TI
SN74LV08APWR	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)		Level-1-260C-UNLIM
SN74LV08APWRE4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08APWRG4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08APWT	ACTIVE	TSSOP	PW	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08APWTE4	ACTIVE	TSSOP	PW	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV08APWTG4	ACTIVE	TSSOP	PW	14	250	Green (RoHS &	CU NIPDAU	Level-1-260C-UNLIM



PACKAGE OPTION ADDENDUM

28-May-2007

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins Pa	ackage Qty	Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
						no Sb/Br)		
SN74LV08ARGYR	ACTIVE	QFN	RGY	14	1000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
SN74LV08ARGYRG4	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 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.

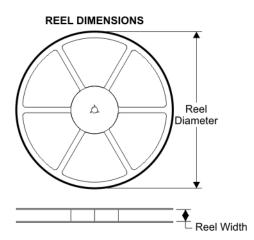
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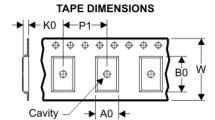
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22-Sep-2007

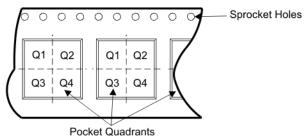
TAPE AND REEL BOX INFORMATION





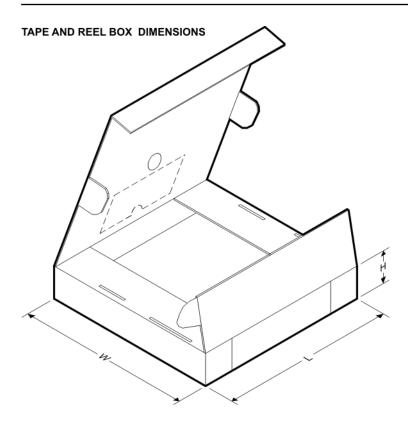
	Dimension designed to accommodate the component width
	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



Device	Package	Pins	Site	Reel Diameter (mm)	Reel Width (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74LV08ADBR	DB	14	SITE 41	330	16	8.2	6.6	2.5	12	16	Q1
SN74LV08ADGVR	DGV	14	SITE 41	330	12	6.8	4.0	1.6	8	16	Q1
SN74LV08ADR	D	14	SITE 41	330	16	6.5	9.0	2.1	8	16	Q1
SN74LV08ANSR	NS	14	SITE 41	330	16	8.2	10.5	2.5	12	16	Q1
SN74LV08APWR	PW	14	SITE 41	330	12	7.0	5.6	1.6	8	12	Q1
SN74LV08ARGYR	RGY	14	SITE 41	180	12	3.85	3.85	1.35	8	12	Q1





Device	Package	Pins	Site	Length (mm)	Width (mm)	Height (mm)	
SN74LV08ADBR	DB	14	SITE 41	346.0	346.0	0.0	
SN74LV08ADGVR	DGV	14	SITE 41	346.0	346.0	0.0	
SN74LV08ADR	D	14	SITE 41	346.0	346.0	0.0	
SN74LV08ANSR	NS	14	SITE 41	346.0	346.0	0.0	
SN74LV08APWR	PW	14	SITE 41	346.0	346.0	0.0	
SN74LV08ARGYR	RGY	14	SITE 41	190.0	212.7	0.0	

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.

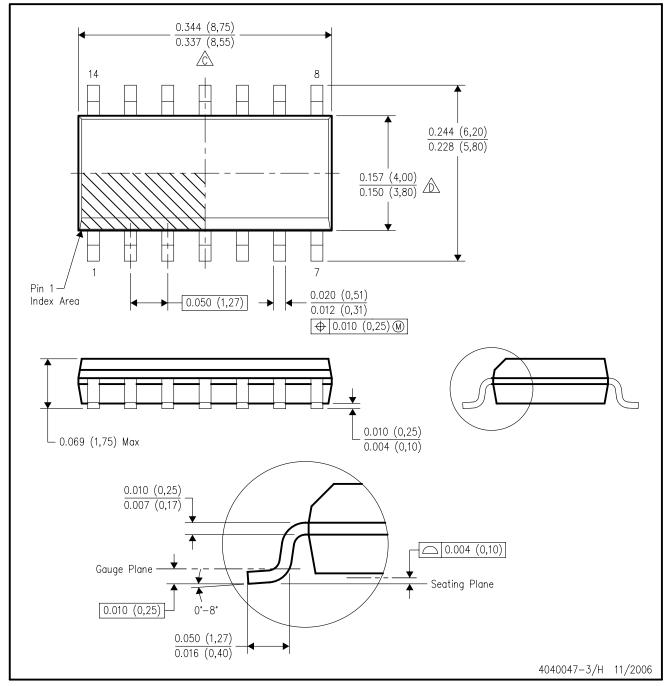
C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15 per side.

D. Falls within JEDEC: 24/48 Pins – MO-153 14/16/20/56 Pins – MO-194



D (R-PDSO-G14)

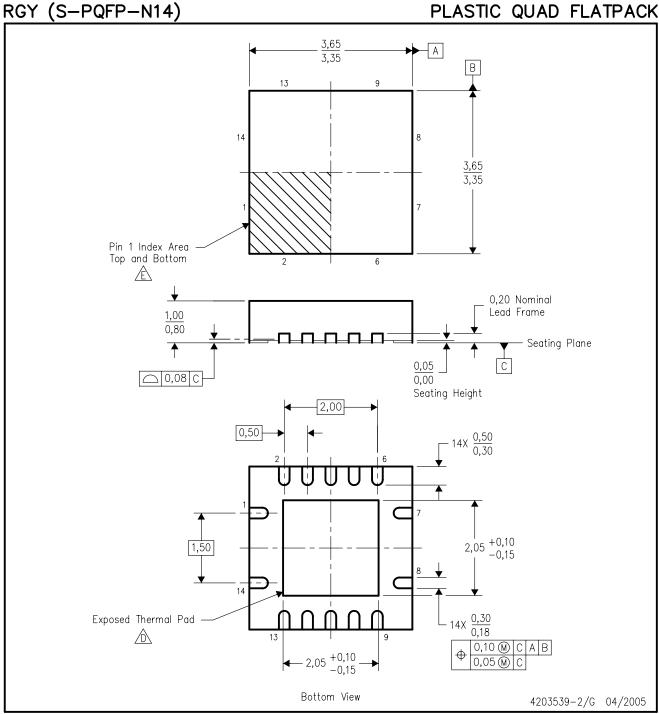
PLASTIC SMALL-OUTLINE PACKAGE



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.





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.
- The package thermal pad must be soldered to the board for thermal and mechanical performance.
- 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.



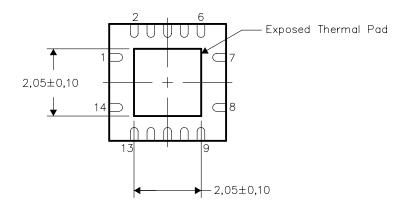


THERMAL INFORMATION

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.

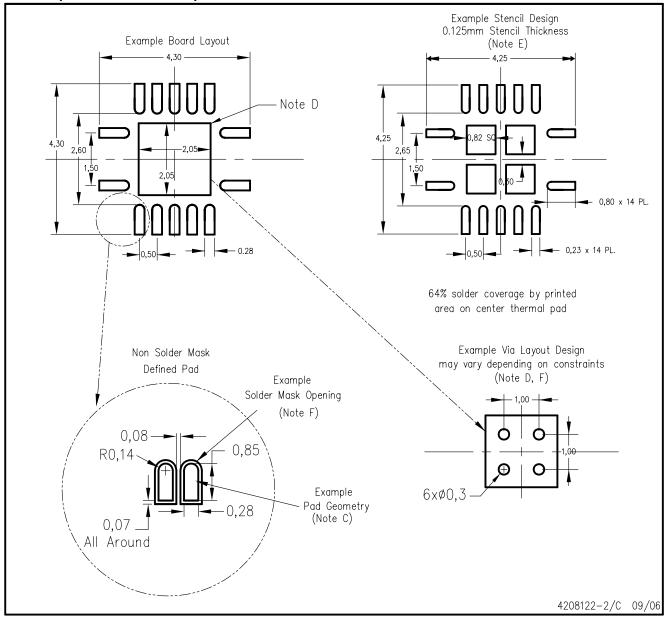


Bottom View

NOTE: All linear dimensions are in millimeters

Exposed Thermal Pad Dimensions

RGY (R-PQFP-N14)



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.



MECHANICAL DATA

NS (R-PDSO-G**)

14-PINS SHOWN

PLASTIC SMALL-OUTLINE PACKAGE



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.



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

PW (R-PDSO-G**)

14 PINS SHOWN

PLASTIC SMALL-OUTLINE PACKAGE



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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