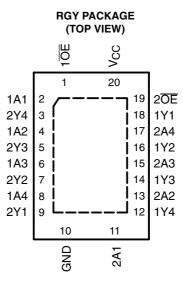
- Supports Mixed-Mode Signal Operation (5-V Input and Output Voltages With 3.3-V V_{CC})
- Supports Unregulated Battery Operation Down to 2.7 V
- Typical V_{OLP} (Output Ground Bounce) <0.8 V at V_{CC} = 3.3 V, $T_A = 25^{\circ}C$

DB, DW, NS, OR PW PACKAGE (TOP VIEW)											
10E [1A1 [2Y4 [1A2 [2Y3 [1A3 [2Y2 [1A4 [2Y1 [GND [1 2 3 4 5 6 7 8 9 10	20 19 18 17 16 15 14 13 12 11] V _{CC}] 2OE] 1Y1] 2A4] 1Y2] 2A3] 1Y3] 2A2] 1Y4] 2A1								

- I_{off} and Power-Up 3-State Support Hot Insertion
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II
- 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 octal buffer and line driver is designed specifically for low-voltage (3.3-V) V_{CC} operation, but with the capability to provide a TTL interface to a 5-V system environment.

The SN74LVT244B is organized as two 4-bit line drivers with separate output-enable (\overline{OE}) inputs. When \overline{OE} is low, the device passes data from the A inputs to the Y outputs. When \overline{OE} is high, the outputs are in the high-impedance state.

T _A	PACKAGE	:†	ORDERABLE PART NUMBER	TOP-SIDE MARKING	
	QFN – RGY	Tape and reel	SN74LVT244BRGYR	LX244B	
	0010 000	Tube	SN74LVT244BDW		
	SOIC – DW	Tape and reel	SN74LVT244BDWR	LVT244B	
	SOP – NS	Tape and reel	SN74LVT244BNSR	LVT244B	
–40°C to 85°C	SSOP – DB	Tape and reel	SN74LVT244BDBR	LX244B	
	TOOOD DW	Tube	SN74LVT244BPW		
	TSSOP – PW	Tape and reel	SN74LVT244BPWR	LX244B	
	VFBGA – GQN	Tana and real	SN74LVT244BGQNR	LX244B	
	VFBGA – ZQN (Pb-free)	Tape and reel	SN74LVT244BZQNR		

ORDERING INFORMATION

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



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PRODUCTION DATA information is current as of publication date. Products conform to specifications per the terms of Texas Instruments standard warranty. Production processing does not necessarily include testing of all parameters.



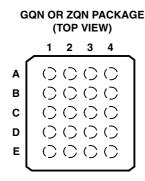
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description/ordering information (continued)

To ensure the high-impedance state during power up or power down, OE should be tied to V_{CC} through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

This device is fully specified for hot-insertion applications using Ioff and power-up 3-state. The Ioff circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down. The power-up 3-state circuitry places the outputs in the high-impedance state during power up and power down, which prevents driver conflict.



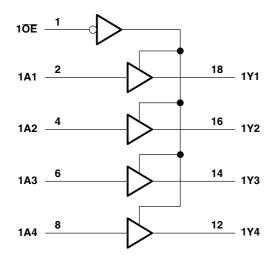
terminal assignments

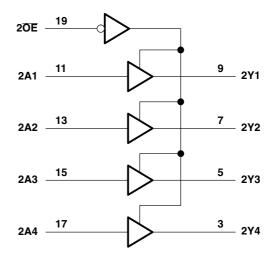
	1	2	3	4
Α	1A1	10E	V _{CC}	2OE
в	1A2	2A4	2Y4	1Y1
С	1A3	2Y3	2A3	1Y2
D	1A4	2A2	2Y2	1Y3
Е	GND	2Y1	2A1	1Y4

FUNCTION TABLE (each 4-bit buffer)

INP	JTS	OUTPUT
ŌĒ	Α	Y
L	Н	Н
L	L	L
Н	Х	Z

logic diagram (positive logic)





Pin numbers shown are for the DB, DW, NS, PW, and RGY packages.



SCAS354J - FEBRUARY 1994 - REVISED SEPTEMBER 2003

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

Supply voltage range, V _{CC}	_0.5 V to 4.6 V
Input voltage range, V _I (see Note 1)	
Voltage range applied to any output in the high-impedance	-0.5 V to 7 V
or power-off state, V _O (see Note 1)	
Voltage range applied to any output in the high state, V _O (see	∋ Note 1)
Current into any output in the low state, Io	128 mA
Current into any output in the high state, I _O (see Note 2)	64 mA
Input clamp current, I _{IK} (V _I < 0)	
Output clamp current, I _{OK} (V _O < 0)	
Package thermal impedance, θ_{IA} (see Note 3): DB package	
(see Note 3): DW package	e 58°C/W
(see Note 3): GQN/ZQN p	ackage 78°C/W
(see Note 3): NS package	
(see Note 3): PW package	e 83°C/W
, , , , .	je 37°C/W
Storage temperature range, T _{stg}	

[†] 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 clamp-current ratings are observed.

2. This current flows only when the output is in the high state and $V_O > V_{CC}$.

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)

			MIN	МАХ	UNIT		
V _{CC}	Supply voltage		2.7	3.6	V		
V _{IH}	H High-level input voltage						
V _{IL}	VIL Low-level input voltage						
VI	Input voltage		5.5	V			
I _{OH}	High-level output current		-32	mA			
I _{OL}	Low-level output current			64	mA		
$\Delta t / \Delta v$	Input transition rise or fall rate	Outputs enabled		10	ns/V		
$\Delta t / \Delta V_{CC}$	Power-up ramp rate		200		μs/V		
T _A	Operating free-air temperature		-40	85	°C		

NOTE 5: All unused inputs of the device must 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.



SCAS354J - FEBRUARY 1994 - REVISED SEPTEMBER 2003

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

	PARAMETER	TES	T CONDITIONS	MIN	TYP†	MAX	UNIT	
V _{IK}		V _{CC} = 2.7 V,	I _I = -18 mA			-1.2	V	
		V _{CC} = 2.7 V to 3.6 V,	I _{OH} = -100 μA	V _{CC} -0.2				
V _{OH}		V _{CC} = 2.7 V,	I _{OH} = -8 mA	2.4			V	
		$V_{CC} = 3 V,$	I _{OH} = -32 mA	2				
		V 07V	I _{OL} = 100 μA			0.2		
		V _{CC} = 2.7 V	I _{OL} = 24 mA			0.5		
V _{OL}			I _{OL} = 16 mA			0.4	V	
	$V_{CC} = 3 V$	I _{OL} = 32 mA			0.5	5		
		I _{OL} = 64 mA			0.55			
V _{CC} =		V _{CC} = 0 or 3.6 V,	V _I = 5.5 V			10		
	Control inputs	$V_{CC} = 3.6 V,$	$V_I = V_{CC}$ or GND		±1			
I _I Data inputs	N 0.0N	$V_I = V_{CC}$			1	μA		
	V _{CC} = 3.6 V	$V_I = 0$						
I _{off}		$V_{CC} = 0,$	V_{I} or V_{O} = 0 to 4.5 V			±100	μA	
I _{OZH}		$V_{CC} = 3.6 V,$	V _O = 3 V			5	μA	
I _{OZL}		$V_{CC} = 3.6 V,$	V _O = 0.5 V			-5	μA	
I _{OZPU}		V_{CC} = 0 to 1.5 V, V_O = 0.5 V	to 3 V, OE = don't care			±100	μA	
I _{OZPD}		$V_{CC} = 1.5 \text{ V to 0}, V_{O} = 0.5 \text{ V}$	to 3 V, \overline{OE} = don't care			±100	μA	
		V _{CC} = 3.6 V,	Outputs high			0.19		
I _{CC}		$I_{O} = 0,$	Outputs low			5	mA	
		$V_I = V_{CC}$ or GND	Outputs disabled		0.19			
ΔI_{CC}^{\ddagger}		$V_{CC} = 3 V$ to 3.6 V, One input Other inputs at V_{CC} or GND	t at V _{CC} – 0.6 V,			0.2	mA	
Ci		V _I = 3 V or 0			4		pF	
Co		$V_{O} = 3 V \text{ or } 0$			7		pF	

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

[‡] This is the increase in supply current for each input that is at the specified TTL voltage level, rather than V_{CC} or GND.

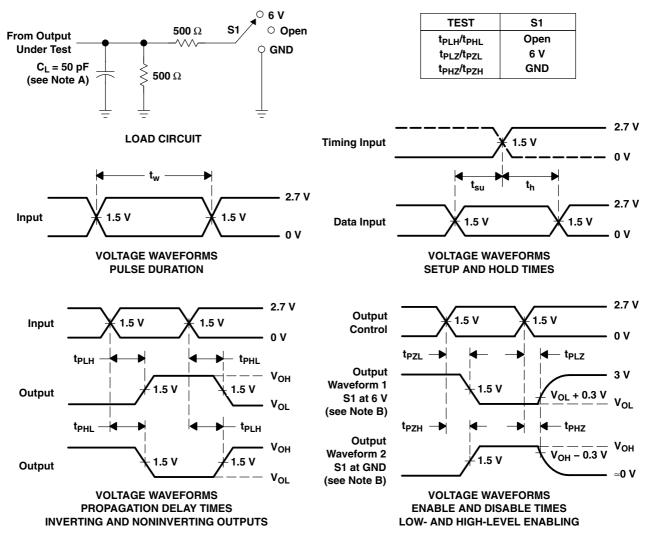
switching characteristics over recommended operating free-air temperature range, $C_L = 50 \text{ pF}$ (unless otherwise noted) (see Figure 1)

PARAMETER	FROM	TO	Vo	cc = 3.3 ± 0.3 V	v	V _{CC} =	UNIT	
	(INPUT)	(OUTPUT)	MIN	TYP [†]	MAX	MIN	MAX	
t _{PLH}	•	V	1.1	2.3	3.5		3.8	
t _{PHL}	A	Ŷ	1.3	2.1	3.3		3.6	ns
t _{PZH}	ŌE	V	1.1	2.5	4.5		5.3	
t _{PZL}		Y	1.4	2.7	4.4		4.9	ns
t _{PHZ}		V	1.9	2.8	4.4		4.5	
t _{PLZ}	ŌĒ	f	1.8	2.9	4.4		4.4	ns

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



SCAS354J - FEBRUARY 1994 - REVISED SEPTEMBER 2003



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 10 MHz, Z_O = 50 Ω , t_f \leq 2.5 ns, t_f \leq 2.5 ns.
- D. The outputs are measured one at a time with one transition per measurement.
- E. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms





11-Apr-2013

PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Top-Side Markings	Samples
SN74LVT244BDB	OBSOLETE	SSOP	DB	20	-	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	LX244B	
SN74LVT244BDBLE	OBSOLETE	SSOP	DB	20		TBD	Call TI	Call TI	-40 to 85		
SN74LVT244BDBR	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	LX244B	Samples
SN74LVT244BDBRE4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	LX244B	Samples
SN74LVT244BDBRG4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	LX244B	Samples
SN74LVT244BDW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	LVT244B	Samples
SN74LVT244BDWE4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	LVT244B	Samples
SN74LVT244BDWG4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	LVT244B	Samples
SN74LVT244BDWR	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	LVT244B	Samples
SN74LVT244BDWRE4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	LVT244B	Samples
SN74LVT244BDWRG4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	LVT244B	Samples
SN74LVT244BGQNR	OBSOLETE	BGA MICROSTAR JUNIOR	GQN	20		TBD	Call TI	Call TI	-40 to 85	LX244B	
SN74LVT244BNSR	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	LVT244B	Samples
SN74LVT244BNSRG4	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	LVT244B	Samples
SN74LVT244BPW	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	LX244B	Samples
SN74LVT244BPWE4	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	LX244B	Samples
SN74LVT244BPWG4	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	LX244B	Samples



11-Apr-2013

Orderable Device		Package Type	•		•		Lead/Ball Finish		Op Temp (°C)	Top-Side Markings	Samples
	(1)		Drawing		Qty	(2)		(3)		(4)	
SN74LVT244BPWLE	OBSOLETE	TSSOP	PW	20		TBD	Call TI	Call TI	-40 to 85		
SN74LVT244BPWR	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	LX244B	Samples
SN74LVT244BPWRE4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	LX244B	Samples
SN74LVT244BPWRG4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	LX244B	Samples
SN74LVT244BRGYR	ACTIVE	VQFN	RGY	20	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR	-40 to 85	LX244B	Samples
SN74LVT244BRGYRG4	ACTIVE	VQFN	RGY	20	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR	-40 to 85	LX244B	Samples
SN74LVT244BZQNR	ACTIVE	BGA MICROSTAR JUNIOR	ZQN	20	1000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM	-40 to 85	LX244B	Samples

⁽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) Multiple Top-Side Markings will be inside parentheses. Only one Top-Side 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 Top-Side Marking for that device.



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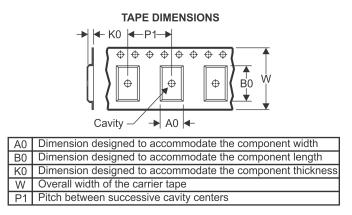
PACKAGE MATERIALS INFORMATION

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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
SN74LVT244BDBR	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74LVT244BDWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
SN74LVT244BNSR	SO	NS	20	2000	330.0	24.4	8.2	13.0	2.5	12.0	24.0	Q1
SN74LVT244BPWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1
SN74LVT244BRGYR	VQFN	RGY	20	3000	330.0	12.4	3.8	4.8	1.6	8.0	12.0	Q1
SN74LVT244BZQNR	BGA MI CROSTA R JUNI OR	ZQN	20	1000	330.0	12.4	3.3	4.3	1.6	8.0	12.0	Q1

TEXAS INSTRUMENTS

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PACKAGE MATERIALS INFORMATION

8-Jul-2013

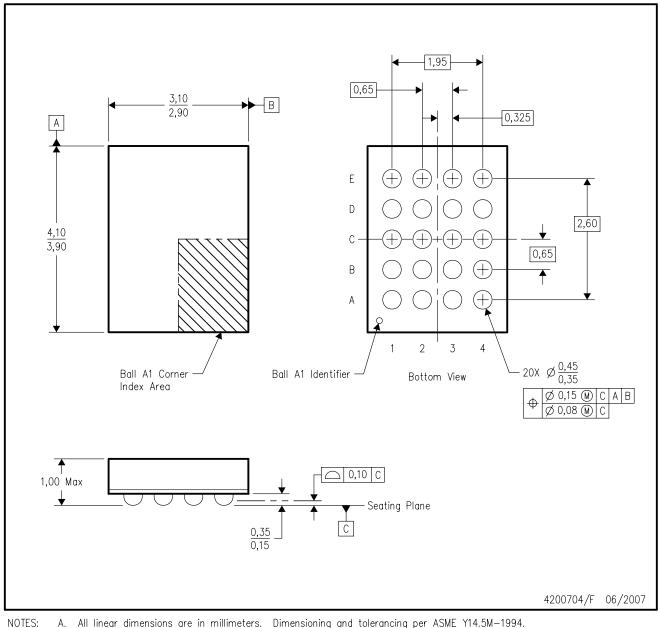


*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LVT244BDBR	SSOP	DB	20	2000	367.0	367.0	38.0
SN74LVT244BDWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74LVT244BNSR	SO	NS	20	2000	367.0	367.0	45.0
SN74LVT244BPWR	TSSOP	PW	20	2000	367.0	367.0	38.0
SN74LVT244BRGYR	VQFN	RGY	20	3000	367.0	367.0	35.0
SN74LVT244BZQNR	BGA MICROSTAR JUNIOR	ZQN	20	1000	338.1	338.1	20.6

GQN (R-PBGA-N20)

PLASTIC BALL GRID ARRAY



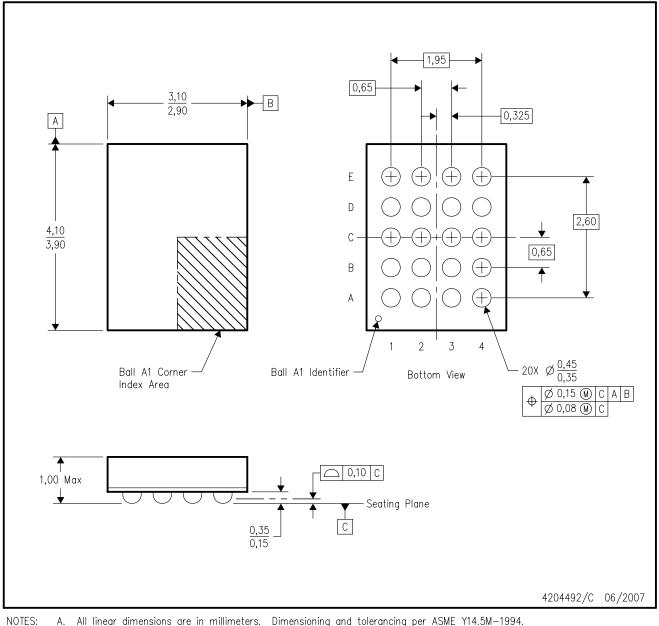
A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994.

- B. This drawing is subject to change without notice.
- C. Falls within JEDEC MO-285 variation BC-2.
- D. This package is tin-lead (SnPb). Refer to the 20 ZQN package (drawing 4204492) for lead-free.



ZQN (R-PBGA-N20)

PLASTIC BALL GRID ARRAY



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. Falls within JEDEC MO-285 variation BC-2.
- D. This package is lead-free. Refer to the 20 GQN package (drawing 4200704) for tin-lead (SnPb).



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.



PW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



NOTES:

A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994. β . 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 0,15 each side.

Body width does not include interlead flash. Interlead flash shall not exceed 0,25 each side.

E. Falls within JEDEC MO-153





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 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 for other stencil recommendations.
 E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



MECHANICAL DATA



- D. The package thermal pad must be soldered to the board for thermal and mechanical performance.
- E. See the additional figure in the Product Data Sheet for details regarding the exposed thermal pad features and dimensions.
- The Pin 1 identifiers are either a molded, marked, or metal feature.
- G. Package complies to JEDEC MO-241 variation BA.



RGY (R-PVQFN-N20)

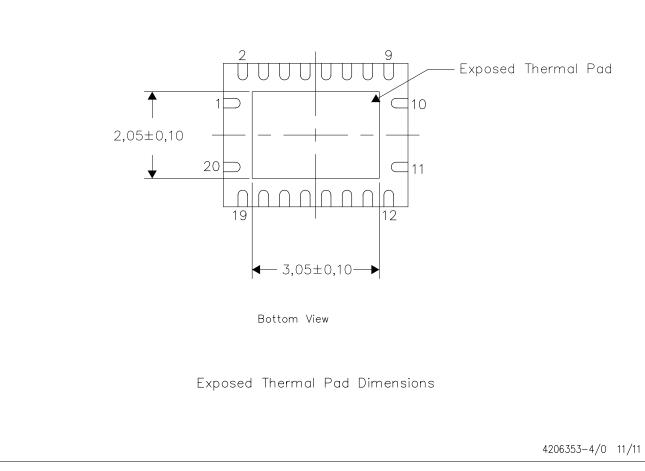
PLASTIC QUAD FLATPACK NO-LEAD

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).

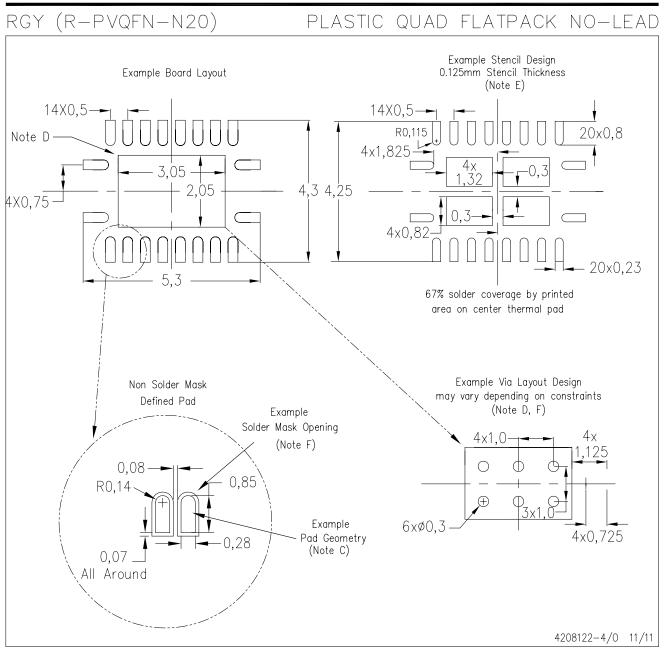
For information on the Quad Flatpack No-Lead (QFN) package and its advantages, refer to Application Report, QFN/SON PCB Attachment, Texas Instruments Literature No. SLUA271. This document is available at www.ti.com.

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



NOTE: All linear dimensions are in millimeters





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 QFN/SON PCB Attachment, Texas Instruments Literature No. 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

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.



MECHANICAL DATA

MSSO002E - 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



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