

SN74ALVC244 OCTAL BUFFER/DRIVER WITH 3-STATE OUTPUTS SCES188G-FEBRUARY 1999-REVISED OCTOBER 2004

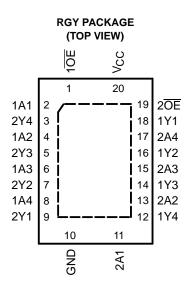
FEATURES

- Operates From 1.65 V to 3.6 V
- Max t_{pd} of 2.8 ns at 3.3 V
- ±24-mA Output Drive at 3.3 V
- Latch-Up Performance Exceeds 250 mA Per JESD 17

DGV, DW, M		or Pw P VIEW)	PACKAGE
10E 1A1 2Y4 [1A2] 2Y3 [1A3 [2Y2] 1A4 [2Y1] GND [3 4	20 19 18 17 16 15 14 13 12 11] V _{CC}] 2OE] 1Y1] 2A4] 1Y2] 2A3] 1Y3] 2A2] 1Y4] 2A1

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/line driver is designed for 1.65-V to 3.6-V V_{CC} operation.

The SN74ALVC244 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.

•

To ensure the high-impedance state during power up or power down, \overline{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.

T _A	T _A PACK		ORDERABLE PART NUMBER	TOP-SIDE MARKING		
	QFN - RGY	Tape and reel	SN74ALVC244RGYR	VA244		
		Tube	SN74ALVC244DW			
	SOIC - DW	Tape and reel	SN74ALVC244DWR	ALVC244		
-40°C to 85°C	SOP - NS	Tape and reel	SN74ALVC244NSR	ALVC244		
		Tube	SN74ALVC244PW	14044		
	TSSOP - PW	Tape and reel	SN74ALVC244PWR	- VA244		
	TVSOP - DGV	Tape and reel	SN74ALVC244DGVR	VA244		

ORDERING INFORMATION

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



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SN74ALVC244 OCTAL BUFFER/DRIVER WITH 3-STATE OUTPUTS

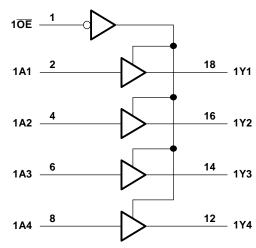
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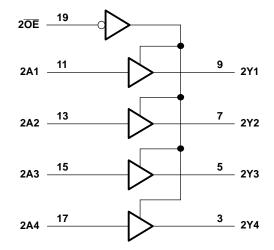


FUNCTION TABLE (each buffer)

INPU	OUTPUT						
ŌĒ	OE A						
L	Н	Н					
L	L	L					
Н	Х	Z					

LOGIC DIAGRAM (POSITIVE LOGIC)





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
I _O	Continuous output current			±50	mA
	Continuous current through V_{CC} or GND			±100	mA
		DGV package ⁽⁴⁾		92	
		DW package ⁽⁴⁾		58	
θ_{JA}	Package thermal impedance	NS package ⁽⁴⁾		60	°C/W
		PW package ⁽⁴⁾		83	
		RGY package ⁽⁵⁾		37	
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 input negative-voltage and output voltage ratings may be exceeded if the input and output current ratings are observed.

(3) This value is limited to 4.6 V maximum.

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

(5) 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	$0.65 \times V_{CC}$		
V _{IH}	High-level input voltage	V_{CC} = 2.3 V to 2.7 V	1.7		V
		V_{CC} = 2.7 V to 3.6 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	
	Lich lovel output ourrent	$V_{CC} = 2.3 V$		-12	
I _{OH}	High-level output current	$V_{CC} = 2.7 V$		-12	mA
		$V_{CC} = 3 V$		-24	
		V _{CC} = 1.65 V		4	
		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, *Implications of Slow or Floating CMOS Inputs*, literature number SCBA004.

ELECTRICAL CHARACTERISTICS

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

F	PARAMETER	TEST CONDITIONS	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 mA	1.65 V			0.45	
V		I _{OL} = 6 mA	2.3 V			0.4	V
V _{OL}		1 10 mA	2.3 V			0.7	V
		$I_{OL} = 12 \text{ mA}$	2.7 V			0.4	
		I _{OL} = 24 mA	3 V			0.55	
I _I		$V_{I} = V_{CC} \text{ or } GND$	3.6 V			±5	μΑ
I _{OZ}		$V_{O} = V_{CC} \text{ or } GND$	3.6 V			±10	μΑ
I _{CC}		$V_{I} = V_{CC} \text{ or } GND, \qquad I_{O} = 0$	3.6 V			10	μΑ
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
	Control inputs		2.2.1/		4.5		- 5
Ci	Data inputs	$V_{I} = V_{CC} \text{ or } GND$	3.3 V		4.5		pF
Co	Outputs	$V_{O} = V_{CC}$ or GND	3.3 V		7.5		pF

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

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SWITCHING CHARACTERISTICS

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

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = ± 0.1	1.8 V 5 V	V _{CC} = 1 ± 0.2	2.5 V 2 V	V _{CC} =	2.7 V	V _{CC} = 3 ± 0.3	3.3 V 3 V	UNIT
	(INPOT)	(001201)	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	А	Y	1	4.4	1	3.1		3.1	1.1	2.8	ns
t _{en}	OE	Y	1.8	6.9	1.5	5.4		5.3	1.5	4.5	ns
t _{dis}	OE	Y	1.8	5.9	1	4.1		4.4	1.7	4.2	ns

OPERATING CHARACTERISTICS

 $T_A = 25^{\circ}C$

	PARAMETER		TEST CONDITIONS	V _{CC} = 1.8 V TYP	V _{CC} = 2.5 V TYP	V _{CC} = 3.3 V TYP	UNIT	
<u> </u>	Power dissipation	Outputs enabled		22	23	26	<u>،</u> ۲	
C _{pd}	C _{pd} capacitance per buffer/driver Outputs disabled		$C_{L} = 0, f = 10 \text{ MHz}$	1	1	1	рF	

SN74ALVC244 OCTAL BUFFER/DRIVER WITH 3-STATE OUTPUTS

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S1

Open

V_{LOAD} GND

v.

TEST

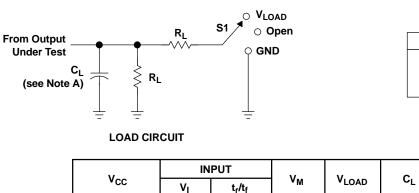
t_{pd}

t_{PLZ}/t_{PZL}

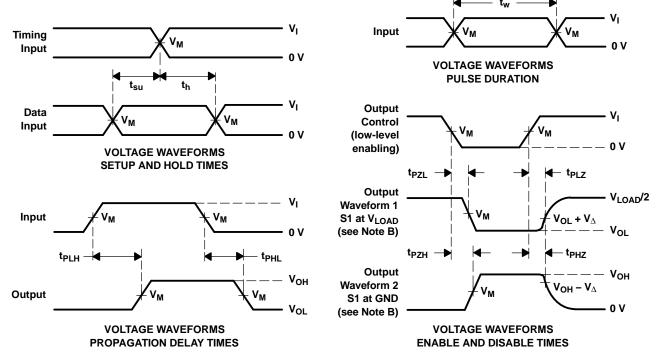
t_{PHZ}/t_{PZH}

R.

PARAMETER MEASUREMENT INFORMATION



•00	VI	t _r /t _f	• 101	LOAD	ΨL	·ι	• Δ	
1.8 V \pm 0.15 V	V _{CC}	≤2 ns	V _{CC} /2	$2 \times \mathbf{V}_{CC}$	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. 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 ≤ 10 MHz, Z_Ω = 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.





PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
	(')		J			(_)	(6)	(0)		(40)	
SN74ALVC244DGVR	ACTIVE	TVSOP	DGV	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	VA244	Samples
SN74ALVC244DW	ACTIVE	SOIC	DW	20	25	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ALVC244	Samples
SN74ALVC244DWR	ACTIVE	SOIC	DW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ALVC244	Samples
SN74ALVC244NSR	ACTIVE	SO	NS	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ALVC244	Samples
SN74ALVC244NSRE4	ACTIVE	SO	NS	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ALVC244	Samples
SN74ALVC244PW	ACTIVE	TSSOP	PW	20	70	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	VA244	Samples
SN74ALVC244PWR	ACTIVE	TSSOP	PW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	VA244	Samples
SN74ALVC244PWRE4	ACTIVE	TSSOP	PW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	VA244	Samples
SN74ALVC244RGYR	ACTIVE	VQFN	RGY	20	3000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	VA244	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⁾ RoHS: TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

RoHS Exempt: TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

Green: TI defines "Green" to mean the content of Chlorine (CI) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.

⁽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.



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PACKAGE OPTION ADDENDUM

⁽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 finish/Ball material - Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

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OTHER QUALIFIED VERSIONS OF SN74ALVC244 :

Enhanced Product : SN74ALVC244-EP

NOTE: Qualified Version Definitions:

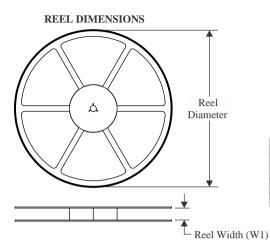
• Enhanced Product - Supports Defense, Aerospace and Medical Applications

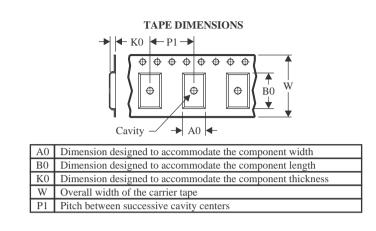


Texas

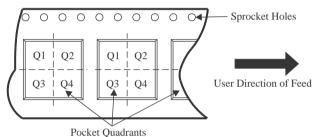
STRUMENTS

TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



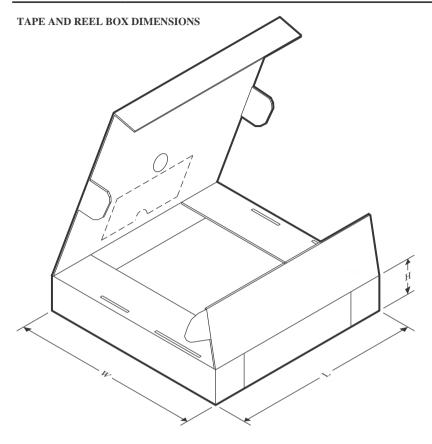
*All dimensions are nominal												
Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74ALVC244DGVR	TVSOP	DGV	20	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1
SN74ALVC244DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
SN74ALVC244NSR	SO	NS	20	2000	330.0	24.4	8.4	13.0	2.5	12.0	24.0	Q1
SN74ALVC244PWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.0	1.4	8.0	16.0	Q1
SN74ALVC244RGYR	VQFN	RGY	20	3000	330.0	12.4	3.8	4.8	1.6	8.0	12.0	Q1



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PACKAGE MATERIALS INFORMATION

9-Aug-2022



*All dimensions are nominal

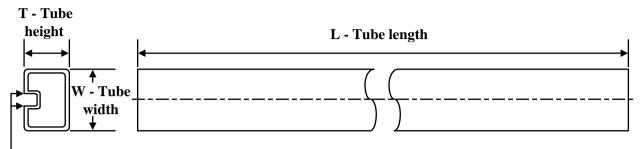
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ALVC244DGVR	TVSOP	DGV	20	2000	356.0	356.0	35.0
SN74ALVC244DWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74ALVC244NSR	SO	NS	20	2000	367.0	367.0	45.0
SN74ALVC244PWR	TSSOP	PW	20	2000	356.0	356.0	35.0
SN74ALVC244RGYR	VQFN	RGY	20	3000	356.0	356.0	35.0

TEXAS INSTRUMENTS

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9-Aug-2022

TUBE



- B - Alignment groove width

*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	Τ (μm)	B (mm)
SN74ALVC244DW	DW	SOIC	20	25	507	12.83	5080	6.6
SN74ALVC244PW	PW	TSSOP	20	70	530	10.2	3600	3.5

PW0020A



PACKAGE OUTLINE

TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



NOTES:

- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M. 2. This drawing is subject to change without notice. 3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not
- exceed 0.15 mm per side.
- 4. This dimension does not include interlead flash. Interlead flash shall not exceed 0.25 mm per side.
- 5. Reference JEDEC registration MO-153.



PW0020A

EXAMPLE BOARD LAYOUT

TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

7. Solder mask tolerances between and around signal pads can vary based on board fabrication site.



PW0020A

EXAMPLE STENCIL DESIGN

TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



NOTES: (continued)

- 8. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
- 9. Board assembly site may have different recommendations for stencil design.



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

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



GENERIC PACKAGE VIEW

VQFN - 1 mm max height

PLASTIC QUAD FGLATPACK - NO LEAD

3.5 x 4.5, 0.5 mm pitch

RGY 20

This image is a representation of the package family, actual package may vary. Refer to the product data sheet for package details.





4225264/A

RGY0020A



PACKAGE OUTLINE

VQFN - 1 mm max height

PLASTIC QUAD FLATPACK - NO LEAD



NOTES:

- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M. 2. This drawing is subject to change without notice.
- 3. The package thermal pad must be soldered to the printed circuit board for thermal and mechanical performance.



RGY0020A

EXAMPLE BOARD LAYOUT

VQFN - 1 mm max height

PLASTIC QUAD FLATPACK - NO LEAD



NOTES: (continued)

4. This package is designed to be soldered to a thermal pad on the board. For more information, see Texas Instruments literature number SLUA271 (www.ti.com/lit/slua271).

5. Vias are optional depending on application, refer to device data sheet. If any vias are implemented, refer to their locations shown on this view. It is recommended that vias under paste be filled, plugged or tented.



RGY0020A

EXAMPLE STENCIL DESIGN

VQFN - 1 mm max height

PLASTIC QUAD FLATPACK - NO LEAD



NOTES: (continued)

6. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.



DW0020A



PACKAGE OUTLINE

SOIC - 2.65 mm max height

SOIC



NOTES:

- 1. All linear dimensions are in millimeters. Dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M. 2. This drawing is subject to change without notice. 3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not
- exceed 0.15 mm per side.
- 4. This dimension does not include interlead flash. Interlead flash shall not exceed 0.43 mm per side.
- 5. Reference JEDEC registration MS-013.



DW0020A

EXAMPLE BOARD LAYOUT

SOIC - 2.65 mm max height

SOIC



NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

7. Solder mask tolerances between and around signal pads can vary based on board fabrication site.



DW0020A

EXAMPLE STENCIL DESIGN

SOIC - 2.65 mm max height

SOIC



NOTES: (continued)

- 8. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
- 9. Board assembly site may have different recommendations for stencil design.



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