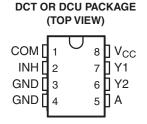


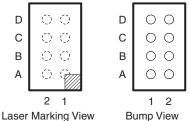
SINGLE-POLE DOUBLE-THROW (SPDT) ANALOG SWITCH OR 2:1 ANALOG MULTIPLEXER/DEMULTIPLEXER

FEATURES

- Available in the Texas Instruments NanoFree™ Package
- Operates at 0.8 V to 2.7 V
- Sub-1-V Operable .
- Low Power Consumption, 10 µA at 2.7 V
- **High On-Off Output Voltage Ratio**
- **High Degree of Linearity**
- 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)







YZP TERMINAL ASSIGNMENTS

D	GND	А
С	GND	Y2
В	INH	Y1
Α	COM	V _{CC}
	1	2

DESCRIPTION/ORDERING INFORMATION

This analog switch is operational at 0.8-V to 2.7-V V_{CC}, but is designed specifically for 1.1-V to 2.7-V V_{CC} operation.

The SN74AUC2G53 can handle both analog and digital signals. The device permits signals with amplitudes of up to V_{CC} (peak) to be transmitted in either direction.

NanoFree™ package technology is a major breakthrough in IC packaging concepts, using the die as the package.

Applications include signal gating, chopping, modulation or demodulation (modem), and signal multiplexing for analog-to-digital and digital-to-analog conversion systems.



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. NanoFree is a trademark of Texas Instruments.

EXAS

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ORDERING INFORMATION

T _A	PACKAGE ⁽¹⁾⁽²⁾		ORDERABLE PART NUMBER	TOP-SIDE MARKING ⁽³⁾
	NanoFree™ – WCSP (DSBGA) 0.23-mm Large Bump – YZP (Pb-free)	Reel of 3000	SN74AUC2G53YZPR	U4_
-40C to 85C	SSOP – DCT	Reel of 3000	SN74AUC2G53DCTR	U53
	VSSOP – DCU	Reel of 3000	SN74AUC2G53DCUR	U53_

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

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

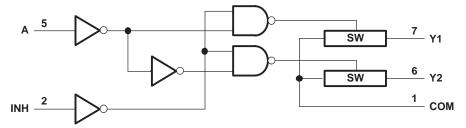
(3) DCT: The actual top-side marking has three additional characters that designate the year, month, and assembly/test site. DCU: The actual top-side marking has one additional character that designates the assembly/test site.

YZP: The actual top-side marking has three preceding characters to denote year, month, and sequence code, and one following character to designate the assembly/test site. Pin 1 identifier indicates solder-bump composition (1 = SnPb, • = Pb-free).

	I ONOTION TABLE									
	-	ON CHANNEL								
INH	Α	CHANNEL								
L	L	Y1								
L	Н	Y2								
н	Х	None								

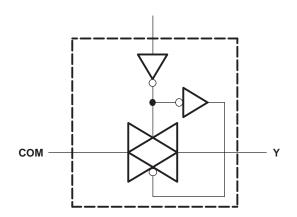
FUNCTION TABLE

LOGIC DIAGRAM (POSITIVE LOGIC)



NOTE A: For simplicity, the test conditions shown in Figures 1 through 4 and 6 through 10 are for the demultiplexer configuration. Signals may be passed from COM to Y1 (Y2) or from Y1 (Y2) to COM.

SIMPLIFIED SCHEMATIC, EACH SWITCH (SW)





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Absolute Maximum Ratings⁽¹⁾

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

			MIN	MAX	UNIT
V _{CC}	Supply voltage range ⁽²⁾		-0.5	3.6	V
VI	Input voltage range ⁽²⁾⁽³⁾		-0.5	3.6	V
V _{I/O}	Switch I/O voltage range ⁽²⁾⁽³⁾		-0.5	V _{CC} + 0.5	V
I _{IK}	Control input clamp current	V _I < 0		-50	mA
I _{I/OK}	I/O port diode current	$V_{I/O} < 0 \text{ or } V_{I/O} > V_{CC}$		50	mA
I _T	On-state switch current current	$V_{I/O} = 0$ to V_{CC}		50	mA
	Continuous current through V_{CC} or GND			100	mA
		DCT package		220	
θ_{JA}	Package thermal impedance ⁽⁴⁾	DCU package		227	C/W
		YZP package		102	
T _{stg}	Storage temperature range		-65	150	С

(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) All voltages are with respect to ground unless otherwise specified.

(3) The input negative-voltage and output voltage ratings may be exceeded if the input and output current ratings are observed.

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

Recommended Operating Conditions⁽¹⁾

			MIN	MAX	UNIT
V _{CC}	Supply voltage		0.8	2.7	V
		$V_{CC} = 0.8 V$	V _{CC}		
VIH	High-level input voltage	$V_{CC} = 1.1 \text{ V to } 1.95 \text{ V}$	0.65 V _{CC}		V
		V_{CC} = 2.3 V to 2.7 V	1.7		
		V _{CC} = 0.8 V		0	
V _{IL} Low-level in	Low-level input voltage	$V_{CC} = 1.1 \text{ V to } 1.95 \text{ V}$		0.35 טV _{CC}	V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		0.7	
V _{I/O}	I/O port voltage		0	V _{CC}	V
VI	Control input voltage		0	3.6	V
		$V_{CC} = 0.8 \text{ V to } 1.6 \text{ V}$		20	
Δt/Δv	Input transition rise or fall rate	$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		10	ns/V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		3.5	
T _A	Operating free-air temperature		-40	85	С

 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)

	PARAMETER	TEST CONDITIO	Vcc	MIN TYP ⁽¹⁾	MAX	UNIT	
	r _{on} On-state switch resistance	$V_{I} = V_{CC}$ or GND, $V_{INH} = V_{IL}$	I _S = 4 mA	1.1 V		40	
r _{on}		(see Figure 1 and	$I_{S} = 4 IIIA$	1.65 V	12.5	20	Ω
			$I_{S} = 8 \text{ mA}$	2.3 V	6	15	
		$V_I = V_{CC}$ to GND, $V_{INH} = V_{IL}$ (see Figure 1 and	$I_{\rm S} = 4 \rm mA$	1.1 V	131	180	
r _{on(p)}	Peak on resistance			1.65 V	32	80	Ω
		Figure 2)	$I_S = 8 \text{ mA}$	2.3 V	15	20	

(1) $T_A = 25C$

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Electrical Characteristics (continued)

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

	PARAMETER		TEST CONDITIO	NS	V _{cc}	MIN TYP ⁽¹⁾ MAX	UNIT
		Difference of an otate registerio			1.1 V	4	
Δr_{on}	Difference of on-state resistance between switches		V _C = V _{IH} (see Figure 1 and	I _S = 4 mA	1.65 V	1	Ω
			Figure 2)	$I_S = 8 \text{ mA}$	2.3 V	1	
			$V_I = V_{CC}$ and $V_O = GND$, o	r		1	
I _{S(off)}	Off-state switch leakage current		$V_I = GND \text{ and } V_O = V_{CC},$ $V_{INH} = V_{IH} \text{ (see Figure 3)}$		2.7 V	0.1 ⁽¹⁾	μA
	On state switch lookage surrent		$V_{I} = V_{CC}$ or GND, $V_{INH} = V_{IL}$, $V_{O} = Open$ (see Figure 4)		2.7 V	1	
I _{S(on)}	On-state switch leakage current				2.7 V	0.1 ⁽¹⁾	μA
I _I	Control input current		$V_{\rm C} = V_{\rm CC}$ or GND		2.7 V	5	μΑ
I _{CC}	Supply current		$V_{\rm C} = V_{\rm CC}$ or GND		2.7 V	10	μA
C _{ic}	Control input capacitance				2.5 V	2	pF
<u> </u>		Y			251	3	۶L
C _{io(off)}	Switch input/output capacitance	COM			2.5 V	4.5	pF
C _{io(on)}	Switch input/output capacitance				2.5 V	9	рF

Switching Characteristics

over recommended operating free-air temperature range, $C_L = 15 \text{ pF}$ (unless otherwise noted) (see Figure 5)

PARAMETER FROM (INPUT)	-	TO (OUTPUT)	V _{CC} = 0.8 V	V _{CC} = 0.1		V _{CC} = 0.1	1.5 V V		_C = 1.8 0.15 V	v	V _{CC} = 0.2		UNIT	
	(INFUT)	(001901)	TYP	MIN	MAX	MIN	MAX	MIN	TYP	MAX	MIN	MAX		
t _{pd} ⁽¹⁾	COM or Y	Y or COM	0.3		0.3		0.3			0.2		0.1	ns	
t _{en}	INH		COM or Y	9.2	0.5	3.5	0.5	2.2	0.5	1	1.9	0.5	1.8	20
t _{dis}			8.1	0.5	4.2	0.5	3.2	0.5	1.9	3.4	0.5	2.6	ns	
t _{en}	٨	COM or Y	9.2	0.5	3.6	0.5	2.3	0.5	1.1	1.9	0.5	1.6	20	
t _{dis}	A		10	0.5	3.6	0.5	2.3	0.5	1.1	2	0.5	1.6	ns	

(1) The propagation delay is the calculated RC time constant of the typical on-state resistance of the switch and the specified load capacitance, when driven by an ideal voltage source (zero output impedance).

Switching Characteristics

over recommended operating free-air temperature range, $C_L = 30 \text{ pF}$ (unless otherwise noted) (see Figure 5)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 1.8 V 0.15 V			V _{CC} = 2.5 V 0.2 V		UNIT
	(INPUT)	(001F01)	MIN	TYP	MAX	MIN	MAX	
t _{pd} ⁽¹⁾	COM or Y	Y or COM			0.4		0.2	ns
t _{en}	INH	COM or Y	0.5	1.6	3.1	0.5	2.2	ns
t _{dis}			0.5	2.2	3.4	0.5	2.2	
t _{en}	A	COM or Y	0.5	1.6	3	0.5	2.2	20
t _{dis}	A		0.5	1.6	3	0.5	2.3	ns

(1) The propagation delay is the calculated RC time constant of the typical on-state resistance of the switch and the specified load capacitance, when driven by an ideal voltage source (zero output impedance).



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Analog Switch Characteristics

 $T_A = 25C$

PARAMETER	FROM (INPUT)	TO (OUTPUT)	TEST CONDITIONS	V _{cc}	ТҮР	UNIT
				0.8 V	90	
			$C_{L} = 50 \text{ pF}, R_{L} = 600 \Omega,$	1.1 V	101	
			f _{in} = sine wave	1.4 V	110	
			(see Figure 6)	1.65 V	122	
Frequency response ⁽¹⁾	COM or Y	Y or COM		2.3 V	198	MHz
(switch ON)	CONTOL			0.8 V	>500	
			$C_{L} = 5 \text{ pF}, R_{L} = 50 \Omega,$	1.1 V	>500	
			f _{in} = sine wave	1.4 V	>500	
			(see Figure 6)	1.65 V	>500	
				2.3 V	>500	
				0.8 V	-59	
			$C_{L} = 50 \text{ pF}, R_{L} = 600 \Omega,$	1.1 V	-59	dB
		Y or COM	f _{in} = 1 MHz (sine wave)	1.4 V	-59	
			(see Figure 7)	1.65 V	-59	
Crosstalk ⁽²⁾ between switches)	COM or Y			2.3 V	-60	
	CONTOL			0.8 V	-55	
			$C_{L} = 5 \text{ pF}, R_{L} = 50 \Omega,$	1.1 V	-55	
			f _{in} = 1 MHz (sine wave)	1.4 V	-55	
			(see Figure 7)	1.65 V	-55	
				2.3 V	-55	
				0.8 V	0.56	
			$C_{L} = 50 \text{ pF}, R_{L} = 600 \Omega,$	1.1 V	0.68	
Crosstalk (control input to signal output)	INH	COM or Y	f _{in} = 1 MHz (square wave)	1.4 V	0.81	mV
			(see Figure 8)	1.65 V	0.93	
				2.3 V	1.5	
				0.8 V	-60	
			$C_{L} = 50 \text{ pF}, R_{L} = 600 \Omega,$	1.1 V	-60	
			f _{in} = 1 MHz (sine wave)	1.4 V	-60	
			(see Figure 9)	1.65 V	-60	
Feed-through attenuation ⁽³⁾	COM or Y	Y or COM		2.3 V	-60	dB
(switch OFF)				0.8 V	-59	uБ
			$C_{L} = 5 \text{ pF}, R_{L} = 600 \Omega,$	1.1 V	-59	
			f _{in} = 1 MHz (sine wave)	1.4 V	-59	
			(see Figure 9)	1.65 V	-59	
				2.3 V	-59	

Adjust f_{in} voltage to obtain 0 dBm at output. Increase f_{in} frequency until dB meter reads -3 dB.
 Adjust f_{in} voltage to obtain 0 dBm at input.
 Adjust f_{in} voltage to obtain 0 dBm at input.

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Analog Switch Characteristics (continued)

 $T_{A} = 25C$

PARAMETER	FROM (INPUT)	TO (OUTPUT)	TEST CONDITIONS	V _{cc}	ТҮР	UNIT
		Y or COM		0.8 V	6.19	
			$C_{L} = 50 \text{ pF}, R_{L} = 10 \text{ k}\Omega,$	1.1 V	0.39	
			f _{in} = 1 kHz (sine wave)	1.4 V	0.06	%
			(see Figure 10)	1.65 V	0.02	
Sine-wave distortion	COM or Y			2.3 V	0.01	
Sine-wave distortion	COMONY			0.8 V	3.55	
			$C_{L} = 50 \text{ pF}, R_{L} = 10 \text{ k}\Omega,$	1.1 V	0.38	
			f _{in} = 10 kHz (sine wave)	1.4 V	0.04	
			(see Figure 10)	1.65 V	0.02	
				2.3 V	0.02	

Operating Characteristics

for INH input, $T_A = 25C$

	PARAMETER	TEST CONDITIONS	V _{CC} = 0.8 V TYP	V _{CC} = 1.2 V TYP	V _{CC} = 1.5 V TYP	V _{CC} = 1.8 V TYP	V _{CC} = 2.5 V TYP	UNIT
C_{pd}	Power dissipation capacitance	f = 10 MHz	3	3	3	3	3	pF

Operating Characteristics

for A input, $T_A = 25C$

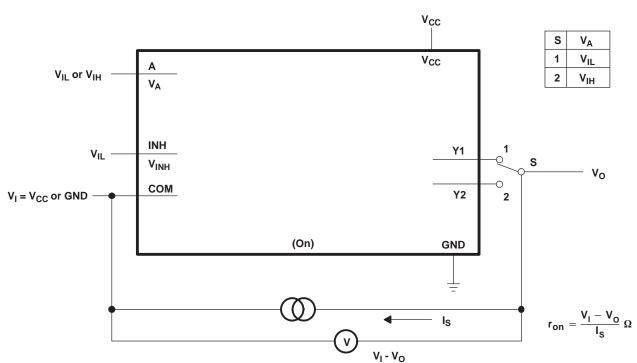
PARAMETER			TEST CONDITIONS	V _{CC} = 0.8 V TYP	V _{CC} = 1.2 V TYP	V _{CC} = 1.5 V TYP	V _{CC} = 1.8 V TYP	V _{CC} = 2.5 V TYP	UNIT
C _{pd} dis	Power	pation $f = 1$	f = 10 MHz	5.5	5.5	5.5	5.5	5.5	рF
	capacitance			0.5	0.5	0.5	0.5	0.5	рг

SN74AUC2G53



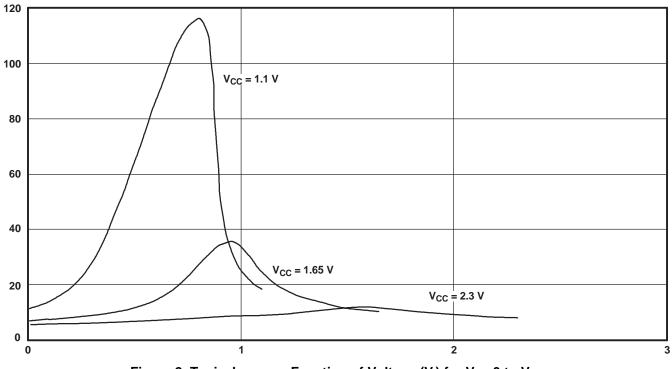
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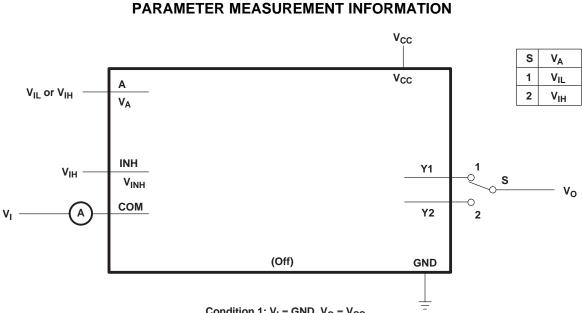
PARAMETER MEASUREMENT INFORMATION







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 $\begin{array}{l} \text{Condition 1: } V_{I} = \text{GND}, \, V_{O} = V_{CC} \\ \text{Condition 2: } V_{I} = V_{CC}, \, V_{O} = \text{GND} \end{array}$



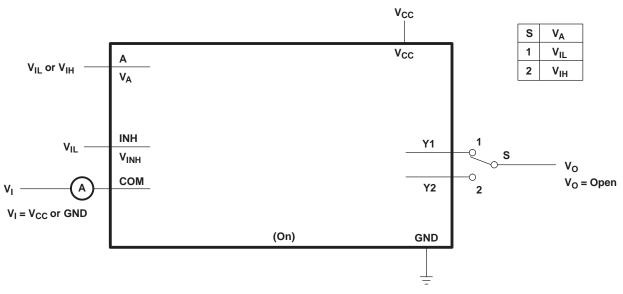


Figure 4. On-State Switch Leakage-Current Test Circuit

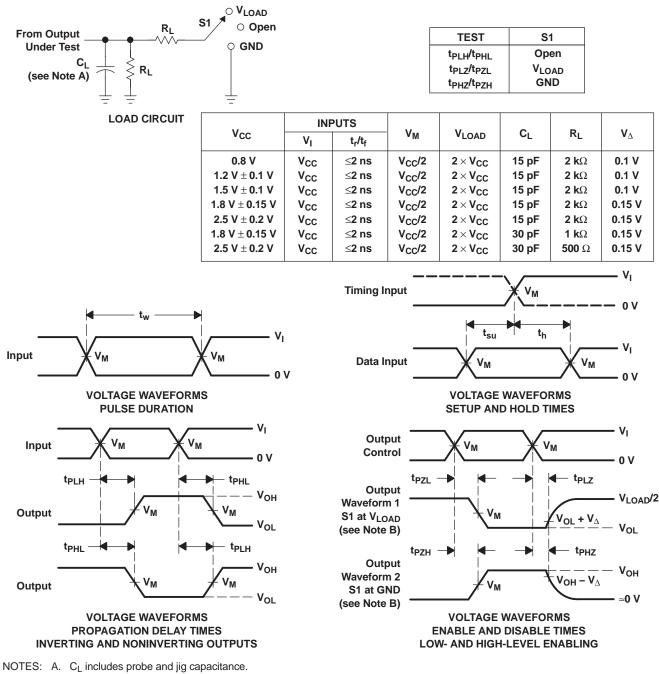
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PARAMETER MEASUREMENT INFORMATION



- 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_Q = 50 Ω, slew rate ≥ 1 V/ns.
- D. The outputs are measured one at a time, with one transition per measurement.
 - D. The outputs are measured one at a time, with one transition p
 - E. $t_{\text{PLZ}} \, \text{and} \, t_{\text{PHZ}} \, \text{are the same as} \, t_{\text{dis}}.$
 - 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.

Figure 5. Load Circuit and Voltage Waveforms

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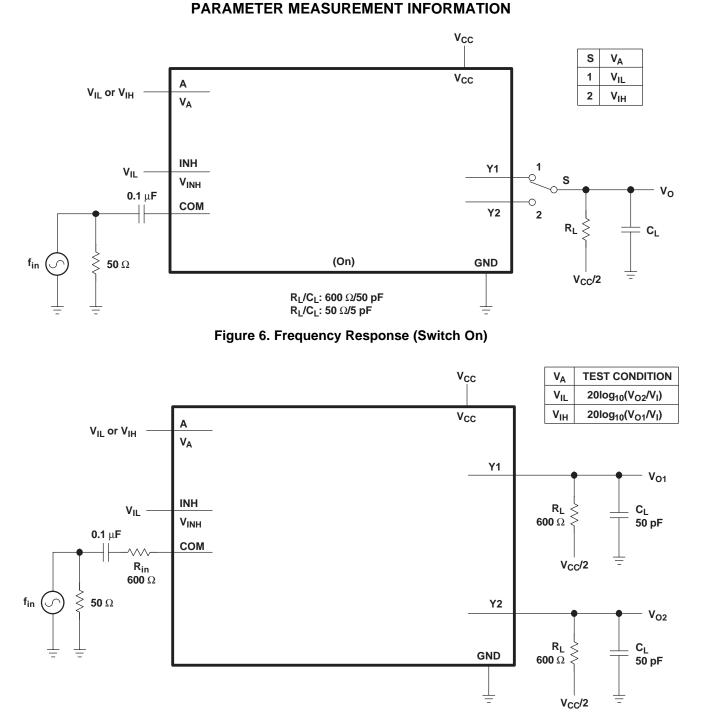


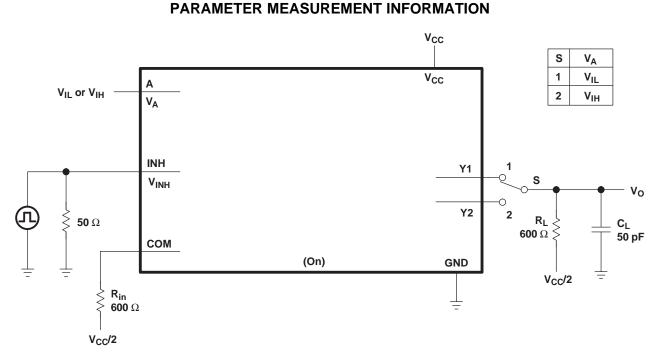
Figure 7. Crosstalk (Between Switches)

SN74AUC2G53

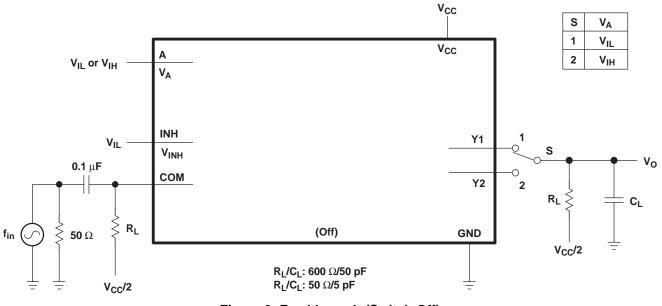


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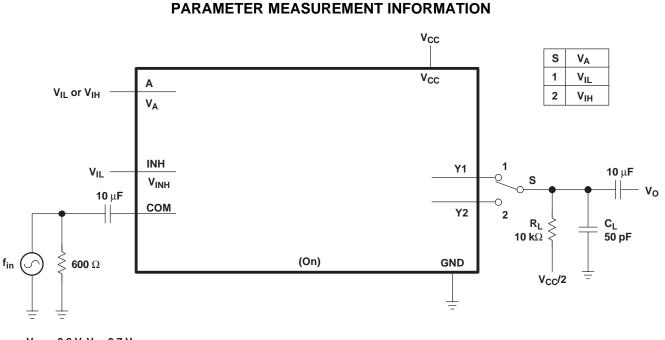








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$$\begin{split} &V_{CC} = 0.8 \ V, \ V_{I} = 0.7 \ V_{P-P} \\ &V_{CC} = 1.1 \ V, \ V_{I} = 1 \ V_{P-P} \\ &V_{CC} = 1.4 \ V, \ V_{I} = 1.2 \ V_{P-P} \\ &V_{CC} = 1.65 \ V, \ V_{I} = 1.4 \ V_{P-P} \\ &V_{CC} = 2.3 \ V, \ V_{I} = 2 \ V_{P-P} \end{split}$$



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PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty		Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
SN74AUC2G53DCTR	(1) ACTIVE	SM8	DCT	8	3000	(2) Green (RoHS & no Sb/Br)	(6) NIPDAU	(3) Level-1-260C-UNLIM	-40 to 85	(4/5) U53 Z	Samples
SN74AUC2G53DCTRE4	ACTIVE	SM8	DCT	8	3000	Green (RoHS & no Sb/Br)	NIPDAU	Level-1-260C-UNLIM	-40 to 85	U53 Z	Samples
SN74AUC2G53DCUR	ACTIVE	VSSOP	DCU	8	3000	Green (RoHS & no Sb/Br)	NIPDAU SN	Level-1-260C-UNLIM	-40 to 85	(U53Q, U53R)	Samples
SN74AUC2G53DCURG4	ACTIVE	VSSOP	DCU	8	3000	Green (RoHS & no Sb/Br)	NIPDAU	Level-1-260C-UNLIM	-40 to 85	U53R	Samples
SN74AUC2G53YZPR	ACTIVE	DSBGA	YZP	8	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM	-40 to 85	(U47, U4N)	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.

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



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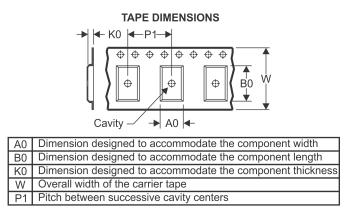
PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



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
SN74AUC2G53DCTR	SM8	DCT	8	3000	180.0	13.0	3.35	4.5	1.55	4.0	12.0	Q3
SN74AUC2G53DCUR	VSSOP	DCU	8	3000	180.0	8.4	2.25	3.35	1.05	4.0	8.0	Q3
SN74AUC2G53DCURG4	VSSOP	DCU	8	3000	180.0	8.4	2.25	3.35	1.05	4.0	8.0	Q3
SN74AUC2G53YZPR	DSBGA	YZP	8	3000	178.0	9.2	1.02	2.02	0.63	4.0	8.0	Q1

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PACKAGE MATERIALS INFORMATION

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*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AUC2G53DCTR	SM8	DCT	8	3000	182.0	182.0	20.0
SN74AUC2G53DCUR	VSSOP	DCU	8	3000	202.0	201.0	28.0
SN74AUC2G53DCURG4	VSSOP	DCU	8	3000	202.0	201.0	28.0
SN74AUC2G53YZPR	DSBGA	YZP	8	3000	220.0	220.0	35.0

MECHANICAL DATA

MPDS049B - MAY 1999 - REVISED OCTOBER 2002

DCT (R-PDSO-G8)

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

D. Falls within JEDEC MO-187 variation DA.



DCT (R-PDSO-G8) PLASTIC SMALL OUTLINE Example Board Layout Example Stencil Design (Note C,E) (Note D) - 6x0,65 - 6x0,65 8x0,25-8x1,55 3,40 3,40 Non Solder Mask Defined Pad Example Pad Geometry -0,30 (Note C) 1,60 Example -0,07 Non-solder Mask Opening All Around (Note E) 4212201/A 10/11

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



YZP0008



PACKAGE OUTLINE

DSBGA - 0.5 mm max height

DIE SIZE BALL GRID ARRAY



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.



YZP0008

EXAMPLE BOARD LAYOUT

DSBGA - 0.5 mm max height

DIE SIZE BALL GRID ARRAY



NOTES: (continued)

3. Final dimensions may vary due to manufacturing tolerance considerations and also routing constraints. For more information, see Texas Instruments literature number SNVA009 (www.ti.com/lit/snva009).



YZP0008

EXAMPLE STENCIL DESIGN

DSBGA - 0.5 mm max height

DIE SIZE BALL GRID ARRAY



NOTES: (continued)

4. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release.



DCU (R-PDSO-G8)

PLASTIC SMALL-OUTLINE PACKAGE (DIE DOWN)



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. Mold flash and protrusion shall not exceed 0.15 per side.

D. Falls within JEDEC MO-187 variation CA.





- NOTES: A. All linear dimensions are in millimeters. В. 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.



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