сомГ

INH

GND 3

GND 4

2

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8 🛛 V_{CC}

7 🛛 Y1

6 🛛 Y2

5 🕇 A

DCT OR DCU PACKAGE

(TOP VIEW)

FEATURES

- Available in the Texas Instruments NanoStar[™] and NanoFree[™] Packages
- 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)

DESCRIPTION/ORDERING INFORMATION

Per	YEP OR YZP PACKAGE (BOTTOM VIEW) GND 04 50 A GND 03 60 Y2 INH 02 70 Y1					
	GND	04 50	А			
	GND	0360	Y2			
	INH	0270	Y1			
	COM	01 80	V _{CC}			

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.

NanoStar[™] and 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.

ORDERING INFORMATION

T _A	PACKAGE ⁽¹⁾		ORDERABLE PART NUMBER	TOP-SIDE MARKING ⁽²⁾
	NanoStar™ – WCSP (DSBGA) 0.23-mm Large Bump – YEP	Tono and real	SN74AUC2G53YEPR	
–40°C to 85°C	NanoFree™ – WCSP (DSBGA) 0.23-mm Large Bump – YZP (Pb-free)	Tape and reel	SN74AUC2G53YZPR	U4
	SSOP – DCT	Tape and reel	SN74AUC2G53DCTR	U53
	VSSOP – DCU	Tape and reel	SN74AUC2G53DCUR	U53_

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

(2) 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. YED/YZD: The actual top side marking has three proceeding character to denote year, month, and assembly/test site.

YEP/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).

FUNCTION TABLE

	-	ON CHANNEL
INH	Α	CHANNEL
L	L	Y1
L	Н	Y2
Н	Х	None
	INPU INH L L	L L L H

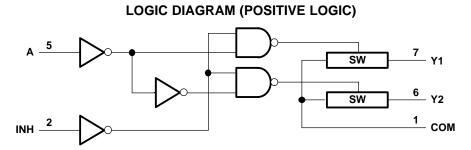


Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

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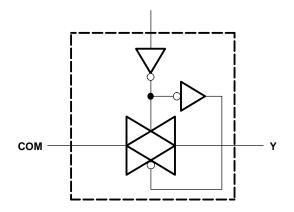
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NOTE A: For simplicity, the test conditions shown in Figures 1 through 4 and 6 through 10 are for the demultiplexer configuration. Signals may be passed from COM to Y1 (Y2) or from Y1 (Y2) to COM.

SIMPLIFIED SCHEMATIC, EACH SWITCH (SW)



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 ₁ < 0		-50	mA
I _{I/OK}	I/O port diode current	$V_{I/O} < 0 \text{ or } V_{I/O} > V_{CC}$		±50	mA
IT	On-state switch current current			±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
		YEP/YZP package		102	
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) 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.

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Recommended Operating Conditions⁽¹⁾

			MIN	MAX	UNIT
V_{CC}	Supply voltage		0.8	2.7	V
		V _{CC} = 0.8 V	V _{CC}		
V _{IH}	High-level input voltage	$V_{CC} = 1.1 \text{ V to } 1.95 \text{ V}$	$0.65 \times V_{CC}$		V
	IL Low-level input voltage	V_{CC} = 2.3 V to 2.7 V	1.7		
		V _{CC} = 0.8 V		0	
V _{IL}	 High-level input voltage Low-level input voltage I/O port voltage Control input voltage 	$V_{CC} = 1.1 \text{ V to } 1.95 \text{ V}$		$0.35 \times V_{CC}$	V
		V_{CC} = 2.3 V to 2.7 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	
$\Delta t/\Delta v$	Input transition rise or fall rate	V _{CC} = 1.65 V to 1.95 V		10	ns/V
		V_{CC} = 2.3 V to 2.7 V		3.5	
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)

	PARAMETER		TEST CONDITI	ONS	V _{cc}	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 1.65 V	12.5	40 20	Ω	
'on			(see Figure 1 and Figure 2)	I _S = 8 mA	2.3 V	6	15		
			$V_{I} = V_{CC}$ to GND,		1.1 V	131	180		
r _{on(p)}	Peak on resistance		V _{INH} = V _{IL} (see Figure 1 and	$I_{S} = 4 \text{ mA}$	1.65 V	32	80	Ω	
			Figure 2)	I _S = 8 mA	2.3 V	15	20		
			$V_{I} = V_{CC}$ to GND,	I _S = 4 mA	1.1 V		4		
$\Delta \mathbf{r}_{\mathrm{on}}$	Difference of on-state resistance between switches		V _C = V _{IH} (see Figure 1 and	1 _S = 4 IIIA	1.65 V		1	Ω	
			Figure 2)	I _S = 8 mA	2.3 V		1		
	2 <i>n</i>		$V_{I} = V_{CC}$ and $V_{O} = GND$, o			±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	
I _{S(on)}	On-state switch leakage current			$V_{I} = V_{CC}$ or GND, $V_{INH} = V_{IL}$, V_{O} = Open (see Figure 4)			±1 ±0.1 ⁽¹⁾	μA	
l _l	Control input current		$V_{\rm C} = V_{\rm CC}$ or GND		2.7 V		±5	μA	
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	
C	Switch input/output capacitance	Y			2.5 V	3		pF	
C _{io(off)}	Switch input/output capacitance	COM			2.3 V	4.5		μr	
C _{io(on)}	Switch input/output capacitance				2.5 V	9		pF	

(1) $T_A = 25^{\circ}C$



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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} = 1.5 V ± 0.1 V		V _{CC} = 1.8 V ± 0.15 V			V _{CC} = 2.5 V ± 0.2 V	
			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	COMerV	9.2	0.5	3.5	0.5	2.2	0.5	1	1.9	0.5	1.8	20
t _{dis}		COM or Y	8.1	0.5	4.2	0.5	3.2	0.5	1.9	3.4	0.5	2.6	ns
t _{en}	٨	COMerX	9.2	0.5	3.6	0.5	2.3	0.5	1.1	1.9	0.5	1.6	20
t _{dis}	A	COM or Y	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	ТО (О U ТРUТ)	V _C	V _{CC} = 1.8 V ± 0.15 V			V _{CC} = 2.5 V ± 0.2 V	
	(INPUT)	(001201)	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}	٨		0.5	1.6	3	0.5	2.2	20
t _{dis}	A	COM or Y	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).

Analog Switch Characteristics

 $T_A = 25^{\circ}C$

PARAMETER	FROM (INPUT)	TO (OUTPUT)	TEST CONDITIONS	v _{cc}	TYP	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	MHz
		Y or COM	(see Figure 6)	1.65 V	122	
Frequency response ⁽¹⁾	COM or Y			2.3 V	198	
(switch ON)	COMONY			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	

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

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Analog Switch Characteristics (continued)

 $T_A = 25^{\circ}C$

PARAMETER	FROM (INPUT)	TO (OUTPUT)	TEST CONDITIONS	V _{cc}	ТҮР	UNIT
				0.8 V	-59	
			$C_{L} = 50 \text{ pF}, R_{L} = 600 \Omega,$	1.1 V	-59	
			f _{in} = 1 MHz (sine wave)	1.4 V	-59	
			(see Figure 7)	1.65 V	-59	
Crosstalk ⁽²⁾	COM or V	V or COM		2.3 V	-60	dB
(between switches)	CONTOL	1 01 00101		0.8 V	-55	uВ
			$C_1 = 5 pF. R_1 = 50 \Omega.$	1.1 V	-55	
			f _{in} = 1 MHz (sine wave)	1.4 V	-55	
			(see Figure 7)	1.65 V	-55	
				$\begin{array}{c c} R_{L} = 600 \ \Omega, \\ (sine wave) \\ 7 \end{pmatrix} & \begin{array}{c} 1.4 \ \vee & -59 \\ \hline 1.65 \ \vee & -59 \\ \hline 2.3 \ \vee & -60 \\ \hline 0.8 \ \vee & -55 \\ \hline 1.1 \ \vee & -55 \\ \hline 1.4 \ \vee & -55 \\ \hline 1.4 \ \vee & -55 \\ \hline 1.65 \ \vee & -55 \\ \hline 2.3 \ \vee & -55 \\ \hline 1.65 \ \vee & -55 \\ \hline 2.3 \ \vee & -55 \\ \hline 0.8 \ \vee & 0.56 \\ \hline 1.4 \ \vee & 0.81 \\ \hline 8 \\ \hline 1.65 \ \vee & 0.93 \\ \hline 2.3 \ \vee & 1.5 \\ \hline R_{L} = 600 \ \Omega, \\ (sine wave) \\ 9 \end{pmatrix} & \begin{array}{c} 0.8 \ \vee & 0.68 \\ \hline 1.4 \ \vee & 0.81 \\ \hline 1.65 \ \vee & 0.93 \\ \hline 2.3 \ \vee & 1.5 \\ \hline 0.8 \ \vee & -60 \\ \hline 1.4 \ \vee & -60 \\ \hline 1.4 \ \vee & -60 \\ \hline 1.65 \ \vee & -60 \\ \hline 2.3 \ \vee & -60 \\ \hline 1.65 \ \vee & -59 \\ \hline 1.4 \ \vee & -59 \\ \hline 1.65 \ \vee & -59 \\ \hline 1.4 \ \vee & -59 \\ \hline 1.65 \ \vee & -59 \\ \hline 2.3 \ \vee & -59 \\ \hline 1.65 \ \vee & -59 \\ \hline 2.3 \ \vee & -59 \\ \hline 1.65 \ \vee & -59 \\ \hline 1.4 \ \vee & 0.39 \\ \hline 1.65 \ \vee & -59 \\ \hline 1.4 \ \vee & 0.39 \\ \hline 1.4 \ \vee & 0.06 \\ \hline 1.65 \ \vee & 0.02 \\ \hline 2.3 \ \vee & 0.01 \\ \hline 0.8 \ \vee & 3.55 \\ \end{array}$		
				0.8 V	-59 -60 -55 -55 -55 -55 0.56 0.68 0.81 0.93 1.5 -60 -60 -60 -60 -60 -60 -60 -59 -59 -59 -59 -59 -59 -59 -59 -59 -59	
			$C_L = 50 \text{ pF}, R_L = 600 \Omega,$	1.1 V	0.68	
	INH	COM or Y		1.4 V	0.81	mV
			(see Figure 8)	1.65 V	0.93	
				2.3 V	1.5	
		Y or COM		0.8 V	-60	dB
			$C_{\rm r} = 50 \mathrm{nF} \mathrm{R}_{\rm r} = 600 \mathrm{O}$	1.1 V	-60	
			f _{in} = 1 MHz (sine wave)	1.4 V	-60	
			(see Figure 9)	1.65 V	-60	
Feed-through attenuation ⁽²⁾	0014			2.3 V	-60	
(switch OFF)	COM or Y			0.8 V	-59	
			$C_{\rm r} = 5 \rm pE B_{\rm r} = 600 \Omega$	1.1 V	-59	
			f _{in} = 1 MHz (sine wave)	1.4 V	-59	
$ \begin{array}{c} \mbox{Crosstalk}^{(2)} \\ (between switches) \\ \end{tabular} \\ \mbox{(between switches)} \\ \end{tabular} \\ \mbox{(between switches)} \\ \end{tabular} \\ tabular$	-59					
				2.3 V	-59	
				0.8 V	6.19	
			$C_{1} = 50 \text{ pE} \text{ R}_{2} = 10 \text{ kO}$	1.1 V	0.39	
			f _{in} = 1 kHz (sine wave)	1.4 V	0.06	
			(see Figure 10)	1.65 V	0.02	
	0014			2.3 V	0.01	04
Sine-wave distortion	COM or Y	Y or COM		0.8 V	3.55	%
			$C_{1} = 50 \text{ pE } R_{1} = 10 \text{ kO}$	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	

(2) Adjust f_{in} voltage to obtain 0 dBm at input.

Operating Characteristics

for INH input, $T_A = 25^{\circ}C$

	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

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Operating Characteristics

for A input, $T_A = 25^{\circ}C$

	PARAMETE	R	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
	Power	Outputs enabled	f = 10 MHz	5.5	5.5	5.5	5.5	5.5	~ [
C _{pc}	dissipation capacitance	Outputs disabled		0.5	0.5	0.5	0.5	0.5	pF



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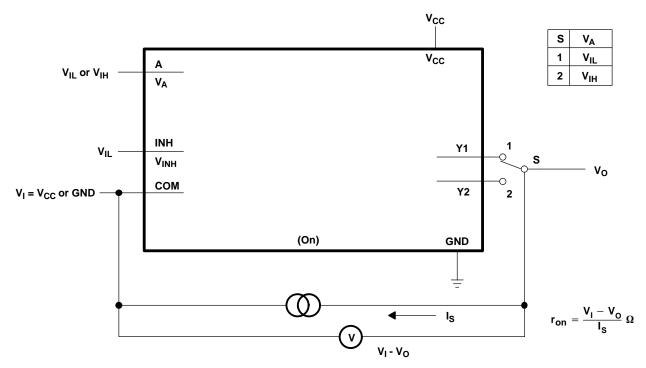


Figure 1. On-State Resistance Test Circuit

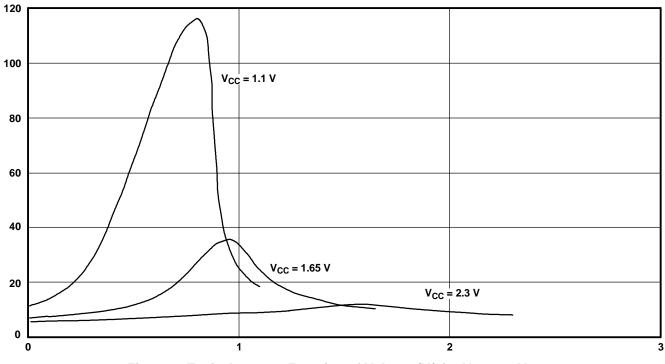
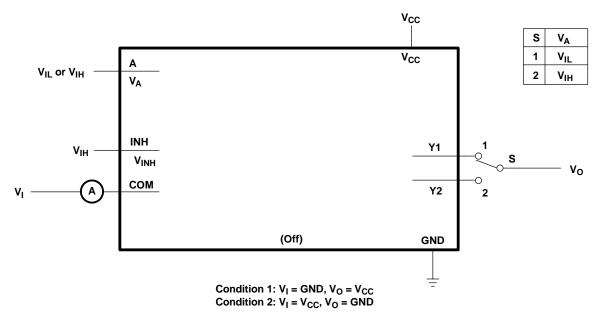


Figure 2. Typical r_{on} as a Function of Voltage (V_I) for V_I = 0 to V_{CC}

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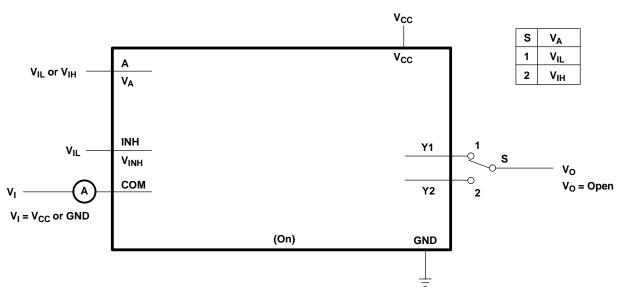
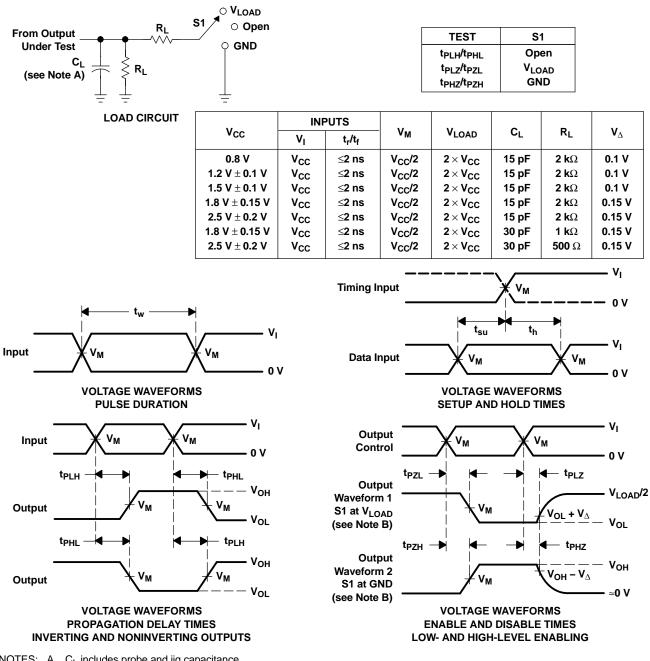


Figure 4. On-State Switch Leakage-Current Test Circuit



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PARAMETER MEASUREMENT INFORMATION

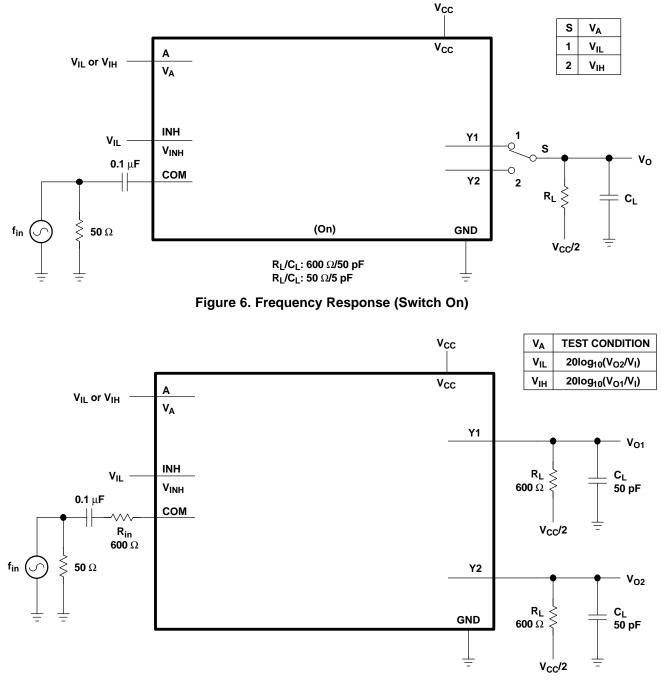


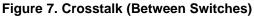
- NOTES: A. C_L includes probe and jig capacitance.
 - B. Waveform 1 is for an output with internal conditions such that the output is low, except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high, except when disabled by the output control.
 - C. All input pulses are supplied by generators having the following characteristics: PRR \leq 10 MHz, Z_Q = 50 Ω , slew rate \geq 1 V/ns.
 - 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.

Figure 5. Load Circuit and Voltage Waveforms

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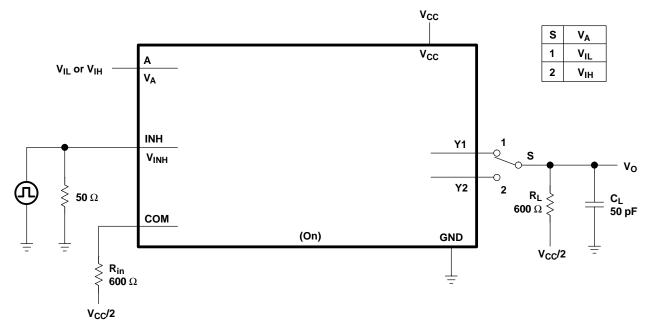




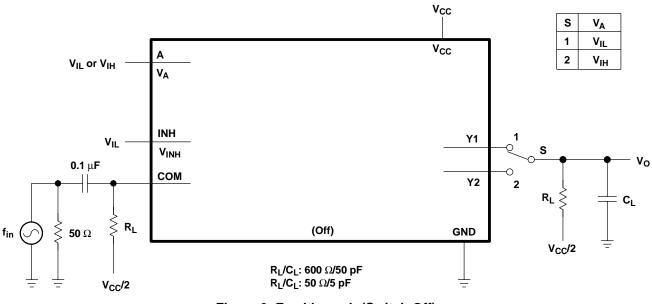




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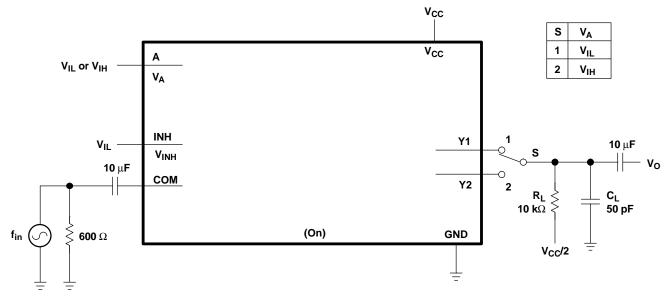




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PARAMETER MEASUREMENT INFORMATION



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



PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
SN74AUC2G53DCTR	ACTIVE	SM8	DCT	8	3000	Pb-Free (RoHS)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC2G53DCTRE4	ACTIVE	SM8	DCT	8	3000	Pb-Free (RoHS)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC2G53DCUR	ACTIVE	US8	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC2G53DCURE4	ACTIVE	US8	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC2G53DCURG4	ACTIVE	US8	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC2G53YEPR	NRND	WCSP	YEP	8	3000	TBD	SNPB	Level-1-260C-UNLIM
SN74AUC2G53YZPR	ACTIVE	WCSP	YZP	8	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM

⁽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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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.



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.

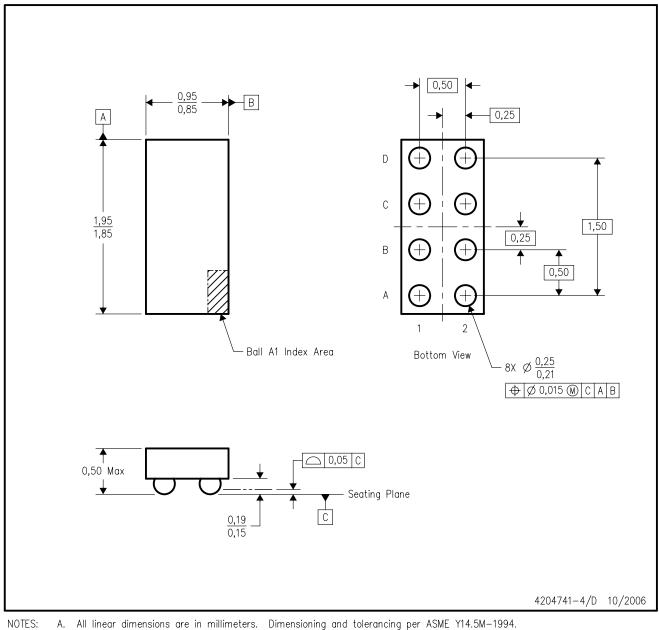
C. Body dimensions do not include mold flash or protrusion. Mold flash and protrusion shall not exceed 0.15 per side.

D. Falls within JEDEC MO-187 variation CA.



YZP (R-XBGA-N8)

DIE-SIZE BALL GRID ARRAY



B. This drawing is subject to change without notice.

C. NanoFree™ package configuration.

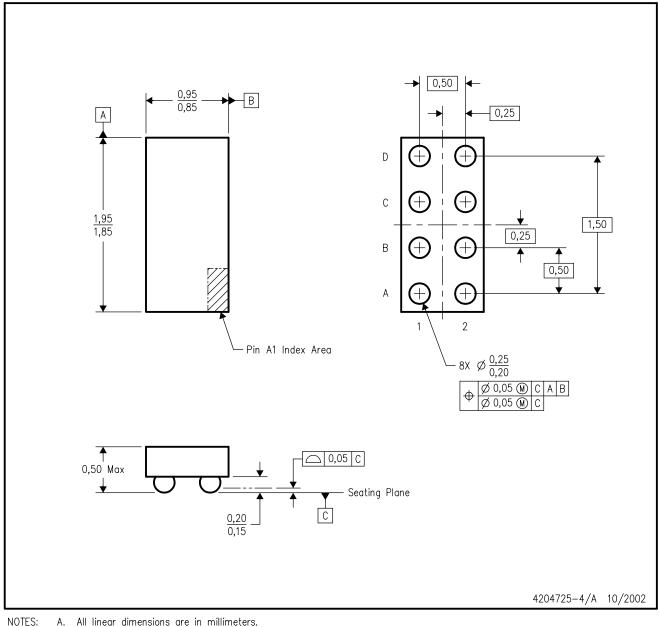
D. This package is lead-free. Refer to the 8 YEP package (drawing 4204725) for tin-lead (SnPb).

NanoFree is a trademark of Texas Instruments.



YEP (R-XBGA-N8)

DIE-SIZE BALL GRID ARRAY



- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice. C. NanoStar™ package configuration.
- D. This package is tin-lead (SnPb). Refer to the 8 YZP package (drawing 4204741) for lead-free.

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