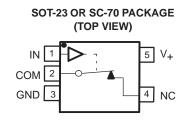


Description

The TS5A4597 is a single-pole single-throw (SPST) analog switch that is designed to operate from 2 V to 5.5 V. This device can handle both digital and analog signals, and signals up to V_+ can be transmitted in either direction.

Applications

- Sample-and-Hold Circuits
- Battery-Powered Equipment (Cellular Phones, PDAs)
- Audio and Video Signal Routing
- Communication Circuits
- PCMCIA Cards



FUNCTION TABLE

IN	NC TO COM, COM TO NC
L	ON
Н	OFF

Features

- Low ON-State Resistance (8 Ω)
- ON-State Resistance Flatness (1.5 Ω)
- Control Inputs Are 5.5-V Tolerant
- Low Charge Injection (5 pC Max)
- 450-MHz –3-dB Bandwidth at 25°C
- Low Total Harmonic Distortion (THD) (0.04%)
- 2-V to 5.5-V Single-Supply Operation
- Specified at 5-V and 3.3-V Nodes
- -85-dB OFF Isolation at 1 MHz
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II
- 0.5-nA Max OFF Leakage
- ESD Performance Tested Per JESD 22

 2000-V Human-Body Model (A114-B, Class II)
 - 1000-V Charged-Device Model (C101)
- TTL/CMOS-Logic Compatible

Summary of Characteristics

 $V_{+} = 5 V, T_{A} = 25^{\circ}C$

Configuration	Single Pole Single Throw (SPST)
Number of channels	1
ON-state resistance (r _{on})	8 Ω
ON-state resistance flatness (ron(flat))	1.5 Ω
Turn-on/turn-off time (tON/tOFF)	17 ns/14 ns
Charge injection (Q _C)	5 pC
Bandwidth (BW)	450 MHz
OFF isolation (OISO)	–85 dB at 1 MHz
Total harmonic distortion (THD)	0.04%
Leakagecurrent(COM(OFF)/INC(OFF))	±0.5 nA
Power-supply current (I+)	0.25 μΑ
Package option	5-pin SOT-23 or SC-70

ORDERING INFORMATION

TA	PACKAGE ⁽¹⁾		ORDERABLE PART NUMBER	TOP-SIDE MARKING ⁽²⁾
-40°C to 85°C	SOT (SOT-23) – DBV	Tape and reel	TS5A4597DBVR	JSD_
	SOT (SC-70) – DCK	Tape and reel	TS5A4597DCKR	JV_

(1) Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.
(2) DBV/DCK: The actual top-side marking has one additional character that designates the assembly/test site.

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.

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.

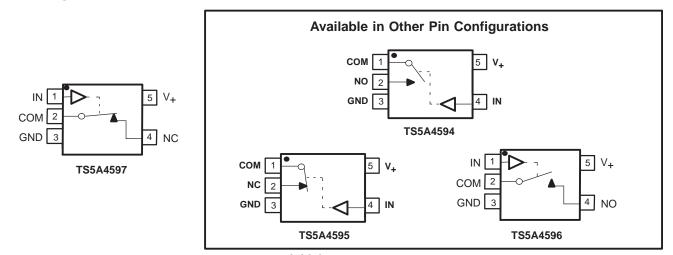
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TS5A4597 SINGLE-CHANNEL 8-Ω SPST ANALOG SWITCH



SCDS182 - FEBRUARY 2005

Pin Configurations



Absolute Minimum and Maximum Ratings(1)(2)

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

			MIN	MAX	UNIT
۷+	Supply voltage range ⁽³⁾		-0.3	6	V
V _{NC} V _{COM}	Analog voltage range(3)(4)		-0.3	V ₊ + 0.3	V
١ĸ	Analog port diode current	V _{NC} , V _{COM} < 0	-50		mA
I _{NC} ICOM	On-state switch current	V_{NC} , $V_{COM} = 0$ to V_+	-20	20	mA
VI	Digital input voltage range(3)(4)		-0.3	6	V
ΙK	Digital input clamp current	V _I < 0	-50		mA
l+	Continuous current through V+			100	mA
IGND	Continuous current through GND		-100		mA
0	Deckson (based) (5)	DBV package		206	
θJA	Package thermal impedance(5)	DCK package		252	°C/W
T _{stg}	Storage temperature range		-65	150	°C

(1) Stresses above these ratings may cause permanent damage. Exposure to absolute maximum conditions for extended periods may degrade device reliability. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those specified is not implied.

(2) The algebraic convention, whereby the most negative value is a minimum and the most positive value is a maximum

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

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

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

SCDS182 - FEBRUARY 2005

Electrical Characteristics for 5-V Supply(1) $V_{+} = 4.5 V \text{ to } 5.5 V$, $T_{A} = -40^{\circ}\text{C} \text{ to } 85^{\circ}\text{C}$ (unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	S	TA	V+	MIN	TYP	MAX	UNIT
Analog Switch						•			
Analog signal range	V _{COM} , V _{NC}					0		V+	V
ON-state	r	V _{NC} = 3.5 V,	Switch ON,	25°C	4.5 V		5	8	Ω
resistance	ron	$I_{COM} = 10 \text{ mA},$	See Figure 13	Full	4.5 V			10	52
ON-state resistance		V _{NC} = 1.5 V, 2.5 V, 3.5 V,	Switch ON,	25°C	451/		0.5	1.5	
flatness	^r on(flat)	$I_{COM} = 10 \text{ mA},$	See Figure 13	Full	4.5 V			2	Ω
NC		V _{NC} = 1 V, V _{COM} = 4.5 V,	Switch OFF,	25°C	\/	-0.5	0.01	0.5	
OFF leakage current	age $I_{NC}(OFF)$ or See Figure 1 V _{NC} = 4.5 V, V _{COM} = 1 V, See Figure 1		See Figure 14	Full	5.5 V	-5		5	nA
COM		$V_{COM} = 1 V, V_{NC} = 4.5 V,$	Switch OFF,	25°C	\ /	-0.5	0.01	0.5	
OFF leakage current	ICOM(OFF)	$v_{COM} = 4.5 \text{ V}, v_{NC} = 1 \text{ V},$	See Figure 14	Full	5.5 V	-5		5	nA
NC ON lookage		$V_{NC} = 1 V, V_{COM} = 1 V,$	Switch ON,	25°C		-1	0.01	1	nA
ON leakage current	I _{NC} (ON)	$V_{NC} = 4.5 V, V_{COM} = 4.5 V,$ or $V_{NC} = 1 V, 4.5 V, V_{COM} = Open,$	See Figure 15	Full	5.5 V	-10		10	
COM		$V_{COM} = 1 V, V_{NC} = 1 V,$	Switch ON,	25°C	551	-1	0.01	1	nA
ON leakage current	ICOM(ON)	V _{COM} = 4.5 V, V _{NC} = 4.5 V, or V _{COM} = 1 V, 4.5 V, V _{NC} = Open,	See Figure 15	Full	5.5 V	-10		10	
Digital Control In	put (IN)					•			
Input logic high	VIH			Full		2.4		5.5	V
Input logic low	VIL			Full		0		0.8	V
Input leakage current	I _{IH} , I _{IL}	VI = 5.5 V or 0		25°C Full	5.5 V	-0.5 -5	0.01	0.5 5	nA

TS5A4597 SINGLE-CHANNEL 8-Ω SPST ANALOG SWITCH



SCDS182 - FEBRUARY 2005

Electrical Characteristics for 5-V Supply⁽¹⁾ (continued) $V_{+} = 4.5 V \text{ to } 5.5 V$, $T_{A} = -40^{\circ}\text{C} \text{ to } 85^{\circ}\text{C}$ (unless otherwise noted)

PARAMETER SYMBOL		TEST CON	DITIONS	TA	V+	MIN	TYP	MAX	UNIT	
Dynamic		·		•						
Turn-on time	4	V _{NC} = 3 V,	C _L = 35 pF,	25°C	5 V		12	17		
rum-on time	^t ON	R _L = 300 Ω,	See Figure 17	Full	4.5 V to 5.5 V			19	ns	
Turn-off time	torr	V _{NC} = 3 V,	C _L = 35 pF,	25°C	5 V		9	14	20	
Turn-off time tOFF		R _L = 300 Ω,	See Figure 17	Full	4.5 V to 5.5 V			17	ns	
Charge injection	QC	$V_{GEN} = 0$, $R_{GEN} = 0$, $C_L = 1$ nF,	See Figure 20	25°C	5 V		2	5	рС	
NC OFF capacitance	C _{NC(OFF)}	V _{NC} = 0, f = 1 MHz,	Switch OFF, See Figure 16	25°C	5 V		6.5		pF	
COM OFF capacitance	C _{COM} (OFF)	V _{COM} = 0, f = 1 MHz,	Switch OFF, See Figure 16	25°C	5 V		6.5		pF	
NC ON capacitance	C _{NC(ON)}	V _{NC} = 0, f = 1 MHz,	Switch ON, See Figure 16	25°C	5 V		13		pF	
COM ON capacitance	C _{COM(ON)}	V _{COM} = 0, f = 1 MHz,	Switch ON, See Figure 16	25°C	5 V		13		pF	
Digital input capacitance	CI	$V_{I} = V_{+} \text{ or GND},$	See Figure 16	25°C	5 V		3		pF	
Bandwidth	BW	$R_L = 50 \Omega$, Signal = 0 dBm,	Switch ON, See Figure 18	25°C	5 V		450		MHz	
OFF isolation	O _{ISO}	$\label{eq:RL} \begin{split} R_{L} &= 50 \ \Omega, \ f = 10 \ MHz, \\ V_{NC} &= 1 \ V_{RMS}, \end{split}$	Switch OFF, See Figure 19	25°C	5 V		-85		dB	
Total harmonic distortion	THD	$R_L = 600 \Omega$, $C_L = 50 pF$, VSOURCE = 5 V _{p-p} ,	f = 20 Hz to 20 kHz, See Figure 21	25°C	5 V		0.04		%	
Supply	1			1	1					
Positive supply			0 k l 0 l 0	25°C	/		0.01	0.25		
current	I+	$V_{I} = V_{+}$ or GND,	Switch ON or OFF	Full	5.5 V			0.5	μA	

SCDS182 - FEBRUARY 2005

Electrical Characteristics for 3-V Supply(1) $V_{+} = 2.7 V \text{ to } 3.6 V$, $T_{A} = -40^{\circ}\text{C} \text{ to } 85^{\circ}\text{C}$ (unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIO	NS	TA	V+	MIN	TYP	MAX	UNIT
Analog Switch				•	•	•			
Analog signal range	V _{COM} , V _{NC}					0		V+	V
ON-state		V _{NC} = 1.5 V,	Switch ON,	25°C	2.7 V		9.5	16	Ω
resistance	ron	I _{COM} = 10 mA,	See Figure 13	Full	2.7 V			20	Ω
ON-state resistance		V _{NC} = 1.5 V, 2.5 V,	Switch ON,	25°C	2.7 V		1.8	6	0
flatness	^r on(flat)	$I_{COM} = 10 \text{ mA},$	See Figure 13	Full	2.7 V			7	Ω
NC OFF leakage		$V_{NC} = 1 V, V_{COM} = 3 V,$	Switch OFF,	25°C	0.014	-0.5	0.01	0.5	nA
current	INC(OFF)	$v_{NC} = 3 V, V_{COM} = 1 V,$	See Figure 14	Full	3.6 V	-5		5	
COM		$V_{COM} = 1 V, V_{NC} = 3 V,$ Switch OFF		25°C		-0.5	0.01	0.5	
OFF leakage current	ICOM(OFF)	$V_{COM} = 3 V, V_{NC} = 1 V,$	See Figure 14	Full	3.6 V	-5		5	nA
NC		$V_{NC} = 1 V, V_{COM} = 1 V,$ or	Switch ON,	25°C		-1	0.01	1	nA
ON leakage current	I _{NC} (ON)	$V_{NC} = 3 V, V_{COM} = 3,$ or $V_{NC} = 1 V, 3 V, V_{COM} = Open,$	See Figure 15	Full	3.6 V	-10		10	
COM		$V_{COM} = 1 V, V_{NC} = 1 V,$ or	Switch ON,	25°C		-1	0.01	1	nA
ON leakage current	ICOM(ON)	$V_{COM} = 3 V, V_{NC} = 3 V,$ or $V_{COM} = 1 V, 3 V, V_{NC} = Open,$	See Figure 15	Full	3.6 V	-10		10	
Digital Control In	put (IN)	· · · · · · · · · · · · · · · · · · ·							
Input logic high	VIH			Full		2		5.5	V
Input logic low	VIL			Full		0		0.8	V
Input leakage current	I _{IH} , IIL	$V_{I} = V_{+} \text{ or } 0$		25°C Full	3.6 V	-0.5 -5	0.01	0.5 5	nA

TS5A4597 SINGLE-CHANNEL 8-Ω SPST ANALOG SWITCH



SCDS182 - FEBRUARY 2005

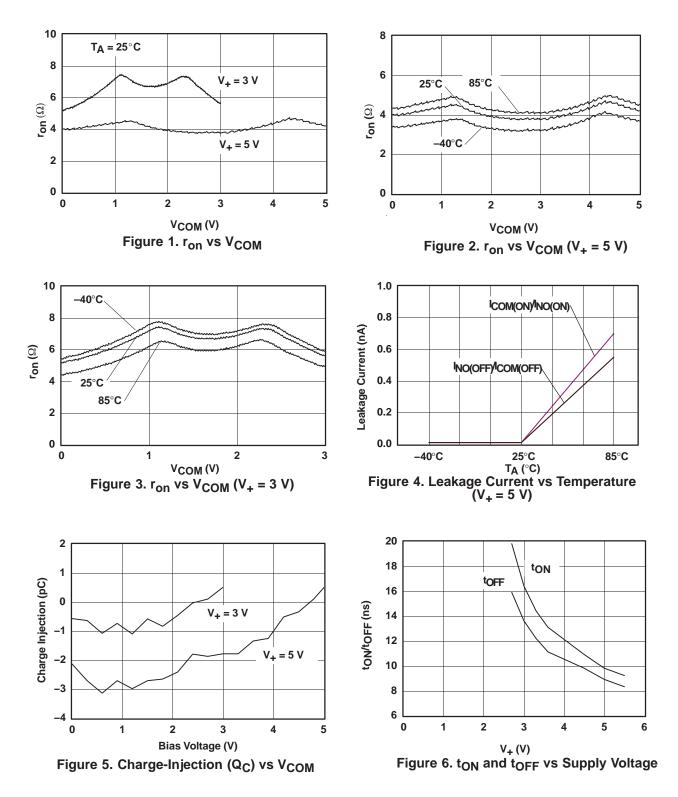
Electrical Characteristics for 3-V Supply⁽¹⁾ (continued) $V_{+} = 2.7 V \text{ to } 3.6 V, T_{A} = -40^{\circ}\text{C} \text{ to } 85^{\circ}\text{C} \text{ (unless otherwise noted)}$

PARAMETER	SYMBOL	L TEST CONDITIONS		TA	V+	MIN	TYP	MAX	UNIT
Dynamic									
Turn-on time	4	$V_{COM} = 2 V,$	C _L = 35 pF,	25°C	3 V		20	30	
rum-on ume	tON	R _L = 300 Ω,	See Figure 17	Full	2.7 V to 3.6 V			35	ns
Turn-off time	torr	$V_{COM} = 2 V,$	C _L = 35 pF,	25°C	3 V		15	25	ns
	tOFF	R _L = 300 Ω,	See Figure 17	Full	2.7 V to 3.6 V			30	115
Charge injection	QC	V _{NC} = 0, C _L = 1 nF,	See Figure 20	25°C	3 V		1	4	рС
NC OFF capacitance	C _{NC(OFF)}	$V_{NC} = V_{+} \text{ or GND},$	Switch OFF, See Figure 16	25°C	3 V		6.5		pF
COM OFF capacitance	CCOM(OFF)	$V_{COM} = V_{+} \text{ or GND},$	Switch OFF, See Figure 16	25°C	3 V		6.5		pF
NC ON capacitance	C _{NC(ON)}	$V_{NC} = V_+ \text{ or GND},$	Switch ON, See Figure 16	25°C	3 V		13		pF
COM ON capacitance	C _{COM(ON)}	$V_{COM} = V_{+} \text{ or GND},$	Switch ON, See Figure 16	25°C	3 V		13		pF
Digital input capacitance	Cl	$V_{I} = V_{+}$ or GND,	See Figure 16	25°C	3 V		3		pF
Bandwidth	BW	$R_L = 50 \Omega$, Signal = 0 dBm,	Switch ON, See Figure 18	25°C	3 V		450		MHz
OFF isolation	O _{ISO}	V _{NC} = 1 V _{RMS} , f = 1 MHz, C _L = 5 pF,	Switch OFF, See Figure 19	25°C	3 V		-85		dB
Total harmonic distortion	THD	$R_L = 600 \Omega$, $C_L = 50 pF$, VSOURCE = 3 V _{p-p} ,	f = 20 Hz to 20 kHz, See Figure 21	25°C	3 V		0.09		%
Supply					ıI				
Positive supply			0.11.1.01.077	25°C	2.214		0.01	0.25	•
current	I+	$V_{I} = V_{+}$ or GND,	Switch ON or OFF	Full	3.6 V			0.5	μA



SCDS182 - FEBRUARY 2005



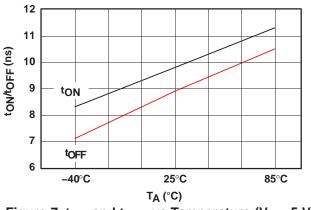


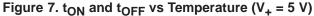
TS5A4597 SINGLE-CHANNEL 8- Ω SPST ANALOG SWITCH

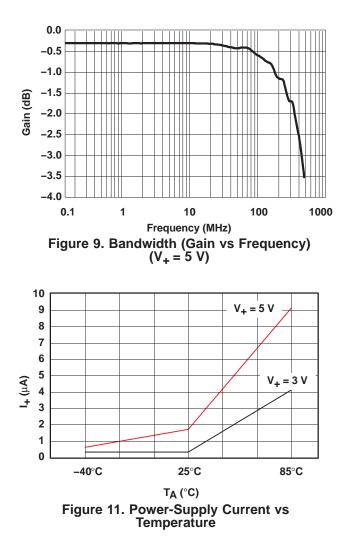


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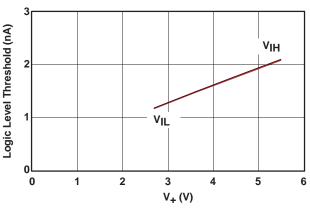


Figure 8. Logic-Level Threshold vs V₊

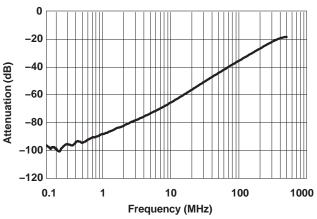
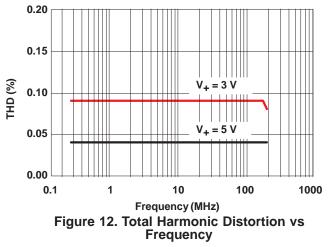


Figure 10. OFF Isolation vs Frequency



SCDS182 - FEBRUARY 2005

	F	
PIN NUMBER	NAME	DESCRIPTION
1	IN	Digital control pin to connect COM to NC
2	COM	Common
3	GND	Digital ground
4	NC	Normally closed
5	V+	Power supply

PIN DESCRIPTION

PARAMETER DESCRIPTION

SYMBOL	DESCRIPTION
VCOM	Voltage at COM
V _{NC}	Voltage at NC
r _{on}	Resistance between COM and NC ports when the channel is ON
ron(flat)	Difference between the maximum and minimum value of ron in a channel over the specified range of conditions
INC(OFF)	Leakage current measured at the NC port, with the corresponding channel (NC to COM) in the OFF state
INC(ON)	Leakage current measured at the NC port, with the corresponding channel (NC to COM) in the ON state and the output (COM) open
ICOM(OFF)	Leakage current measured at the COM port, with the corresponding channel (COM to NC) in the OFF state
ICOM(ON)	Leakage current measured at the COM port, with the corresponding channel (COM to NC) in the ON state and the output (NC) open
VIH	Minimum input voltage for logic high for the control input (IN)
VIL	Maximum input voltage for logic low for the control input (IN)
VI	Voltage at the control input (IN)
I _{IH} , I _{IL}	Leakage current measured at the control input (IN)
^t ON	Turn-on time for the switch. This parameter is measured under the specified range of conditions and by the propagation delay between the digital control (IN) signal and analog output (COM or NC) signal when the switch is turning ON.
^t OFF	Turn-off time for the switch. This parameter is measured under the specified range of conditions and by the propagation delay between the digital control (IN) signal and analog output (COM or NC) signal when the switch is turning OFF.
QC	Charge injection is a measurement of unwanted signal coupling from the control (IN) input to the analog (NC or COM) output. This is measured in coulomb (C) and measured by the total charge induced due to switching of the control input. Charge injection, $Q_C = C_L \times \Delta V_{COM}$, C_L is the load capacitance, and ΔV_{COM} is the change in analog output voltage.
C _{NC(OFF)}	Capacitance at the NC port when the corresponding channel (NC to COM) is OFF
C _{NC(ON)}	Capacitance at the NC port when the corresponding channel (NC to COM) is ON
CCOM(OFF)	Capacitance at the COM port when the corresponding channel (COM to NC) is OFF
C _{COM} (ON)	Capacitance at the COM port when the corresponding channel (COM to NC) is ON
Cl	Capacitance of control input (IN)
0 _{ISO}	OFF isolation of the switch is a measurement of OFF-state switch impedance. This is measured in dB in a specific frequency, with the corresponding channel (NC to COM) in the OFF state.
BW	Bandwidth of the switch. This is the frequency in which the gain of an ON channel is -3 dB below the DC gain.
THD	Total harmonic distortion describes the signal distortion caused by the analog switch. This is defined as the ratio of root mean square (RMS) value of the second, third, and higher harmonic to the absolute magnitude of the fundamental harmonic.
l ₊	Static power-supply current with the control (IN) pin at V ₊ or GND

TS5A4597 SINGLE-CHANNEL 8- Ω SPST ANALOG SWITCH



SCDS182 - FEBRUARY 2005

PARAMETER MEASUREMENT INFORMATION

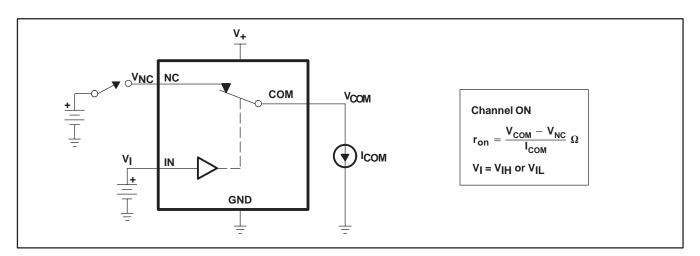


Figure 13. ON-State Resistance (ron)

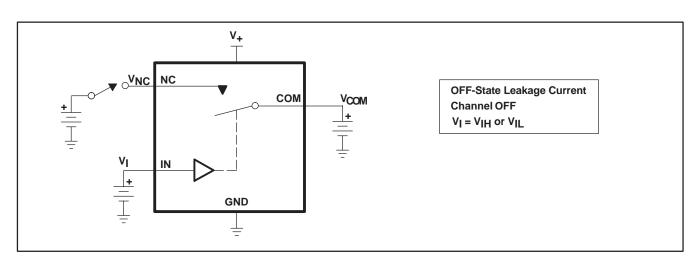
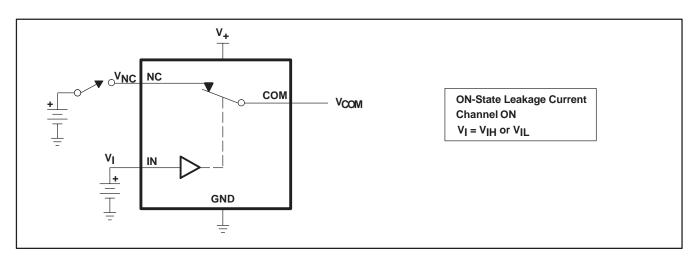


Figure 14. OFF-State Leakage Current (I_{COM(OFF)}, I_{NC(OFF)})







SCDS182 - FEBRUARY 2005

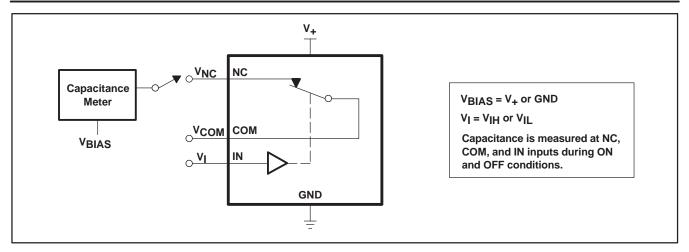
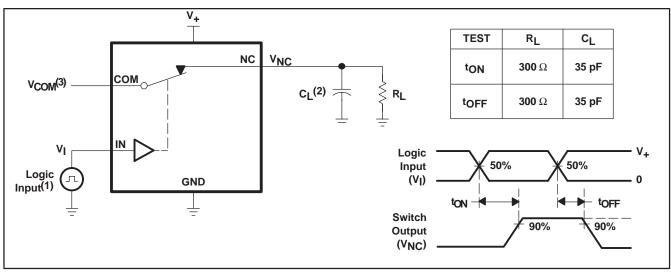


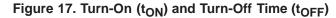
Figure 16. Capacitance (CI, C_{COM(OFF)}, C_{COM(ON)}, C_{NC(OFF)}, C_{NC(ON)})

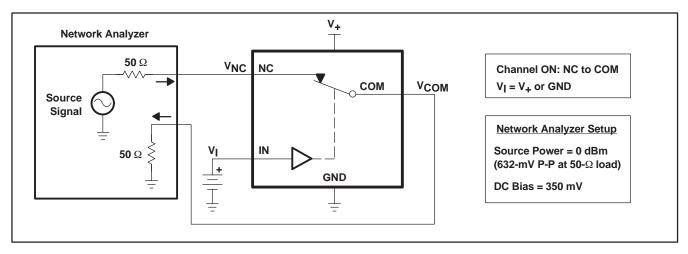


(1) All input pulses are supplied by generators having the following characteristics: PRR \leq 10 MHz, Z_O = 50 Ω , t_f < 5 ns, t_f < 5 ns.

(2) C_L includes probe and jig capacitance.

(3) See Electrical Characteristics for V_{COM}.







TS5A4597 SINGLE-CHANNEL 8-Ω SPST ANALOG SWITCH



SCDS182 - FEBRUARY 2005

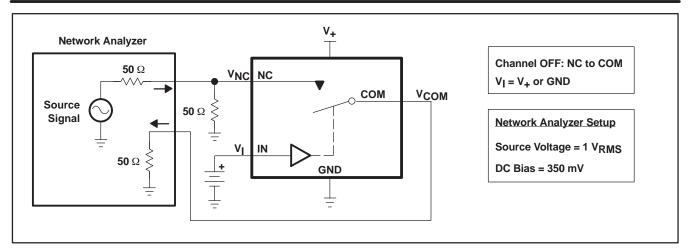
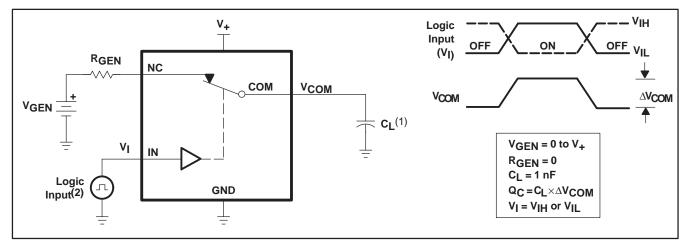


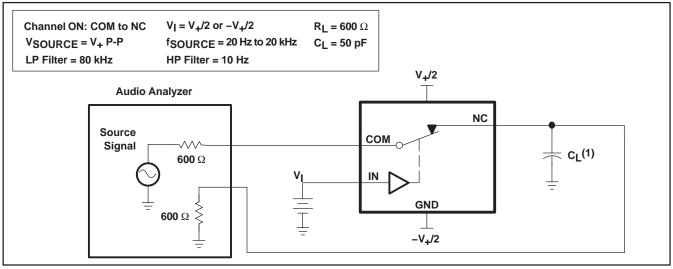
Figure 19. OFF Isolation (OISO)



(1) C_L includes probe and jig capacitance.

(2) All input pulses are supplied by generators having the following characteristics: PRR \leq 10 MHz, Z_O = 50 Ω , t_f < 5 ns, t_f < 5 ns.

Figure 20. Charge Injection (Q_C)



(1) CL includes probe and jig capacitance.





10-Dec-2020

PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
TS5A4597DBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	JSDR	Samples
TS5A4597DCKR	ACTIVE	SC70	DCK	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	JVR	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 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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PACKAGE OPTION ADDENDUM

10-Dec-2020

PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*A	Il 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
	TS5A4597DBVR	SOT-23	DBV	5	3000	180.0	8.4	3.23	3.17	1.37	4.0	8.0	Q3
	TS5A4597DCKR	SC70	DCK	5	3000	180.0	8.4	2.47	2.3	1.25	4.0	8.0	Q3

TEXAS INSTRUMENTS

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PACKAGE MATERIALS INFORMATION

3-Aug-2017



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
TS5A4597DBVR	SOT-23	DBV	5	3000	202.0	201.0	28.0
TS5A4597DCKR	SC70	DCK	5	3000	202.0	201.0	28.0

DBV0005A



PACKAGE OUTLINE

SOT-23 - 1.45 mm max height

SMALL OUTLINE TRANSISTOR



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. Refernce JEDEC MO-178.

- 4. Body dimensions do not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.25 mm per side.



DBV0005A

EXAMPLE BOARD LAYOUT

SOT-23 - 1.45 mm max height

SMALL OUTLINE TRANSISTOR



NOTES: (continued)

5. Publication IPC-7351 may have alternate designs.

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



DBV0005A

EXAMPLE STENCIL DESIGN

SOT-23 - 1.45 mm max height

SMALL OUTLINE TRANSISTOR



NOTES: (continued)

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

8. Board assembly site may have different recommendations for stencil design.



DCK (R-PDSO-G5)

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. Mold flash and protrusion shall not exceed 0.15 per side.
 - D. Falls within JEDEC MO-203 variation AA.



LAND PATTERN DATA



NOTES:

- A. All linear dimensions are in millimeters.B. This drawing is subject to change without notice.
- C. Customers should place a note on the circuit board fabrication drawing not to alter the center solder mask defined pad.
- D. Publication IPC-7351 is recommended for alternate designs.
- 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. Example stencil design based on a 50% volumetric metal load solder paste. Refer to IPC-7525 for other stencil recommendations.



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