

Precision 8-Ch/Dual 4-Ch/Triple 2-Ch Low Voltage Analog Switches/Multiplexers

DESCRIPTION

The DG9051, DG9052, DG9053 are low-voltage monolithic CMOS analog switches and multiplexers. DG9051 is an 8-channel multiplexer; DG9052 is a dual 4 channel multiplexer; and DG9053 is a triple single-pole/double throw (SPDT) switch.

They are designed to operate from a + 2.7 V to + 12 V single supply or ± 2.7 V to ± 6 V dual power supplies. All control logic inputs have guaranteed 2 V logic high/0.8 V logic low when operating from a single 5 V or dual \pm 5 V supplies, and 2.4 V logic high/0.8 V logic low when V + = 12 V.

Built on Vishay Siliconix's proprietary high-density process, the DG9051, DG9052, DG9053 offer the advantage of bi-directional signal, rail to rail analog signal handling.

As a committed partner to the community and the environment, Vishay Siliconix manufactures this product with the Lead (Pb)-Free device terminations. For analog switching products manufactured with 100 % matte tin device termination, the Lead (Pb)-free "-E3" suffix is being used as a de-signator.

FEATURES

- Halogen-free according to IEC 61249-2-21 **Definition**
- 2.7 V to 12 V single supply or \pm 2.7 V to \pm 6 V dual aupply operation
- Guaranteed R_{ON} matching
- Low Voltage CMOS Logic Compatible
- Compliant to RoHS Directive 2002/95/EC



COMPLIANT HALOGEN FREE

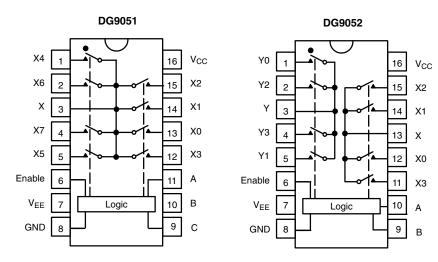
BENEFITS

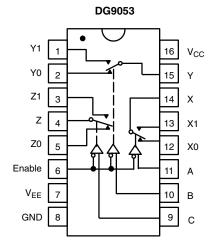
- Wide operation voltage range
- Pin compatible with 74HC4051/2/5
- Guaranteed low leakage

APPLICATIONS

- Battery powered equipment
- Test process equipment
- Communication systems
- A/V and mixed signal routing
- Automotive

FUNCTIONAL BLOCK DIAGRAM AND PIN CONFIGURATION





ORDERING INFORMATION							
Temp. Range	Package	Part Number					
		DG9051DQ-T1-E3					
- 40 °C to 85°C	TSSOP-16	DG9052DQ-T1-E3					
		DG9053DQ-T1-E3					

The information shown here is a preliminary product proposal, not a commercial product data sheet. Siliconix is not committed to produce this or any similiar product. This information should not be used for design purposes, nor construed as an offer to furnish or sell such products.

DG9051, DG9052, DG9053

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TRUTH TAB	LE					
Enable		Select Inputs		On Switches		
Input	C*	В	Α	DG9051	DG9052	DG9053
Н	Х	Х	Х	All switches open	All switches open	All switches open
L	L	L	L	X - X0	X - X0, Y - Y0	X - X0, Y - Y0, Z - Z0
L	L	L	Н	X - X1	X - X1, Y - Y1	X - X1, Y - Y0, Z - Z0
L	L	Н	L	X - X2	X - X2, Y - Y2	X - X0, Y - Y1, Z - Z0
L	L	Н	Н	X - X3	X - X3, Y - Y3	X - X1, Y - Y1, Z - Z0
L	Н	L	L	X - X4	X - X0, Y - Y0	X - X0, Y - Y0, Z - Z1
L	н	L	Н	X - X5	X - X1, Y - Y1	X - X1, Y - Y0, Z - Z1
L	Н	Н	L	X - X6	X - X2, Y - Y2	X - X0, Y - Y1, Z - Z1
L	н	Н	н	X - X7	X - X3, Y - Y3	X - X1, Y - Y1, Z - Z1

X = Don't care

ABSOLUTE MAXIMUM RATINGS (T _A = 25 °C, unless otherwise noted)						
Parameter		Limit	Unit			
Voltage Referenced to V-	V +	13.5				
voltage helereficed to v-	GND	7	V			
Digital Inputs ^a	V_S, V_D	(V -) - 0.3 to (V +) + 0.3				
Current (Any Terminal Except S or D)	30					
Continuous Current, S or D	100	mA				
Peak Current, S or D (Pulsed at 1 ms, 10 % D	uty Cycle Max.)	200				
Package Solder Reflow Conditions ^b IR/Convection		260	°C			
Storage Temperature		- 65 to 150	7			
Power Dissipation (Packages) ^c	T _A = 70 °C, TSSOP-16 ^d	925	mW			



Parameter	Symbol	Symbol Test Condition Unless Otherwise Specified $V += 12 \ V, \pm 10 \ \%, \ V -= 0 \ V$		Limits - 40 °C to 85°C			-	
		V_A , $V_{\overline{EN}} = 0.8 \text{ V or } 2.4 \text{ V}^f$	Temp.b	Min.c	Typ. ^d	Max.c	Unit	
Analog Switch								
Analog Signal Range ^e	V_{ANALOG}		Full	0		12	V	
On-Resistance	R _{ON}	$V_D = 3.5 \text{ V, } I_S = 1 \text{ mA}$ Sequence Each Switch On	Room Full		30	40 50	Ω	
R _{ON} Match Between Channels ^g	ΔR_{ON}	$V_D = 3.5 \text{ V}, I_S = 1 \text{ mA}$	Room			5		
Switch Off Leakage Current	I _{S(off)}	V _{EN} = 2.4 V, V _D = 11 V or 1 V, V _S = 1 V or 11 V	Room Full	- 1 - 20		1 20		
Switch Off Leakage Outrent	I _{D(off)}	VEN = 2.4 V, VD = 11 V 01 1 V, VS = 1 V 01 11 V	Room Full	- 1 - 20		1 20	nA	
Channel On Leakage Current	I _{D(on)}	$V_{\overline{EN}} = 0 \text{ V}, V_S = V_D = 1 \text{ V or } 11 \text{ V}$	Room Full	- 2 - 10		2 10		
Digital Control								
Logic High Input Voltage	V_{INH}		Full	2.4			V	
Logic Low Input Voltage	V _{INL}		Full			8.0		
Input Current	I _{IN}	$V_{AX} = V_{\overline{EN}} = 2.4 \text{ V or } 0.8 \text{ V}$	Full	- 1		1	μΑ	
Dynamic Characteristics		V 14 0 V/0 V 0 V/0 V			I	1 1		
Transition Time	t _{TRANS}	$V_{NO}/V_{NC} = 8 \text{ V/O V, O V/8 V}$ $R_L = 300 \Omega, C_L = 35 \text{ pF}$	Room Full		26	35 55		
Break-Before-Make Time	t _{BBM}		Room Full	3	10		ns	
Enable Turn-On Time	t _{ON(EN)}	$V_{X,Y,Z} = 5 \text{ V}, V_S = 0 \text{ V},$ $R_L = 306 \Omega, C_L = 35 \text{ pF}$	Room Full		20	35 45		
Enable Turn-Off Time	t _{OFF(EN)}		Room Full		16	30 40		
Charge Injection ^e	Q	$C_L = 1 \text{ nF, } V_{GEN} = 0 \text{ V, } R_{GEN} = 0 \Omega$	Room		38		рC	
Off-Isolation ^{e,h}	OIRR	$f = 1 \text{ MHz}, R_1 = 50 \Omega$	Room		- 78		dB	
Crosstalk ^e	X _{TALK}	1 – 1 1911 12, 11[– 50 52	Room	_	- 83		ub	
Source Off Capacitance ^e	C _{S(off)}	$f = 1 \text{ MHz}, V_S = 0 \text{ V}, V_{\overline{EN}} = 2.4 \text{ V}$	Room		4			
Drain Off Capacitance ^e	C _{D(off)}	$f = 1 \text{ MHz}, V_D = 0 \text{ V}, V_{\overline{EN}} = 2.4 \text{ V}$	Room		8		pF	
Drain On Capacitance ^e	C _{D(on)}	$f = 1 \text{ MHz}, V_D = 0 \text{ V}, V_{\overline{EN}} = 0 \text{ V}$	Room		15			
Power Supply								
Power Supply Current	l+	$V_{\overline{EN}} = V_A = 0 \text{ V or V} +$	Room			1	μΑ	

DG9051, DG9052, DG9053

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Parameter	Symbol	Test Condition Unless Otherwise Specified		Limits - 40 °C to 85°C				
		$V += 5 V, V -= -5 V \pm 10 \%$ $V_A, V_{\overline{EN}} = 0.8 V \text{ or } 2 V^f$	Temp.b	Min. ^c	Typ. ^d	Max. ^c	Uni	
Analog Switch						l.		
Analog Signal Range ^e	V _{ANALOG}		Full	- 5		5	V	
On-Resistance	R _{ON}	$V += 4.5 \text{ V}, V -= -4.5 \text{ V}, V_D = \pm 3 \text{ V}, I_S = 1 \text{ mA}$ Sequence Each Switch On	Room Full		35	55 60		
R _{ON} Match Between Channels ^g	ΔR_{ON}		Room			5	Ω	
On-Resistance Flatness ⁱ	R _{ON} Flatness	$V += 4.5 \text{ V}, V -= -4.5 \text{ V}, V_D = \pm 3 \text{ V}, I_S = 1 \text{ mA}$	Room		7	10		
Switch Off Leakage Current ^a	I _{S(off)}	V + = 5.5 V, V - = - 5.5 V	Room Full	- 1 - 20		1 20		
Switch Off Leakage Current	I _{D(off)}	$V_{\overline{EN}} = 2 \text{ V}, V_D = \pm 4.5 \text{ V}, V_S = \pm 4.5 \text{ V}$	Room Full	- 1 - 20		1 20	nA	
Channel On Leakage Current ^a	I _{D(on)}	V += 5.5 V, V -= -5.5 V $V_{\overline{EN}} = 0 \text{ V}, V_D = \pm 4.5 \text{ V}, V_S = \pm 4.5 \text{ V}$	Room Full	- 2 - 10		2 10		
Digital Control								
Logic High Input Voltage	V_{INH}		Full	2			V	
Logic Low Input Voltage	V _{INL}		Full			0.8	٧	
Input Current ^a	I _{IN}	$V_{AX} = V_{\overline{EN}} = 2 \text{ V or } 0.8 \text{ V}$	Full	- 1		1	μΑ	
Dynamic Characteristics								
Transition Time ^e	t _{TRANS}	$V += 4.5 \text{ V}, V -= -4.5 \text{ V} \text{ V}_{NO/NC} = \pm 3 \text{ V},$ $R_L = 300 \ \Omega, \ C_L = 35 \ \text{pF}$	Room Full		35	50 65		
Break-Before-Make Time ^e	t _{BBM}		Room Full	5	12		ns	
Enable Turn-On Time ^e	t _{ON(EN)}	$V_{X,Y, Z} = +/-3 \text{ V, } V_{S} = 0 \text{ V,}$ $R_{L} = 300 \Omega, C_{L} = 35 \text{ pF}$	Room Full		38	55 70		
Enable Turn-Off Time ^e	$t_{OFF(\overline{EN})}$		Room Full		22	35 50		
Source Off Capacitance ^e	C _{S(off)}	$f = 1 \text{ MHz}, V_S = 0 \text{ V}, V_{\overline{EN}} = 2 \text{ V}$	Room		5			
Drain Off Capacitance ^e	C _{D(off)}	$f = 1 \text{ MHz}, V_D = 0 \text{ V}, V_{\overline{EN}} = 2 \text{ V}$	Room		9		pF	
Drain On Capacitance ^e	C _{D(on)}	$f = 1 \text{ MHz}, V_D = 0 \text{ V}, V_{\overline{EN}} = 0 \text{ V}$	Room		13			
Power Supply								
Power Supply Current	l+	$V_{\overline{FN}} = V_A = 0 \text{ V or V} +$	Room	-		1	μΑ	
Tower Supply Current	I-	EN A S.S.S.S.	Room	- 1			μ	

SPECIFICATIONS (Sing	gle Suppl	y 5 V)					
Parameter	Symbol	Symbol Test Condition Unless Otherwise Specified $V + = 5 V, \pm 10 \%, V - = 0 V$		Limits - 40 °C to 85°C			
		$V_{+} = 5 V, \pm 10 \%, V_{-} = 0 V$ $V_{A}, V_{\overline{EN}} = 0.8 V \text{ or } 2 V^{f}$	Temp.b	Min.c	Typ. ^d	Max. ^c	Unit
Analog Switch	1	l				<u> </u>	
Analog Signal Range ^e	V _{ANALOG}		Full	0		5	V
On-Resistance	R _{ON}	$V += 4.5 \text{ V}, V_D \text{ or } V_S = 3 \text{ V or } 3.5 \text{ V}, I_S = 1 \text{ mA}$	Room Full		80	100 120	Ω
R _{ON} Match Between Channels ^g	ΔR_{ON}	$V + = 4.5 \text{ V}, V_D = 3 \text{ V}, I_S = 1 \text{ mA}$	Room			8	
Switch Off Leakage Current ^a	I _{S(off)}	V + = 5.5 V, V _{EN} = 2 V	Room Full	- 1 - 20		1 20	
Switch Off Leakage Current	I _{D(off)}	$V_S = 1 \text{ V or } 4.5 \text{ V, } V_D = 4.5 \text{ V or } 1 \text{ V}$	Room Full	- 1 - 20		1 20	nA
Channel On Leakage Current ^a	I _{D(on)}	$V + = 5.5 \text{ V}, V_{\overline{EN}} = 0 \text{ V}$ $V_D = V_S = 1 \text{ V or } 4.5 \text{ V}$	Room Full	- 2 - 10		2 10	
Digital Control	I						
Logic High Input Voltage	V _{INH}		Full	2			V
Logic Low Input Voltage	V _{INL}		Full			0.8	V
Input Current ^a	I _{IN}	$V_{AX} = V_{\overline{EN}} = 2 \text{ V or } 0.8 \text{ V}$	Full	- 1		1	μΑ
Dynamic Characteristics							
Transition Time	t _{TRANS}	$V += 4.5 \text{ V}, V -= 0 \text{ V}, V_{NO / NC} = 3 \text{ V} / 0 \text{ V},$ $0 \text{ V} / 3 \text{ V}, R_L = 300 \Omega, C_L = 35 \text{ pF}$	Room		40		
Break-Before-Make Time	t _{BBM}	V. 45VV 0VV 0V	Room		15		ns
Enable Turn-On Time	t _{ON(EN)}	$V + = 4.5 \text{ V}, V_{X,Y,Z} = 3 \text{ V}, V_S = 0 \text{ V},$ $R_1 = 300 \Omega, C_1 = 35 \text{ pF}$	Room		40		
Enable Turn-Off Time	t _{OFF(EN)}	335 <u></u> , 9 <u>C</u> 35 p.	Room		20		
Charge Injection ^e	Q	$C_L = 1 \text{ nF, } V_{GEN} = 0 \text{ V, } R_{GEN} = 0 \Omega$	Room		20		рС
Off-Isolation ^{e,h}	OIRR	$f = 1 \text{ MHz}, R_1 = 50 \Omega$	Room		- 79		dB
Crosstalk ^e	X _{TALK}	1 – 1 IVII IZ, FIL = 50 52	Room		- 83		uБ
Source Off Capacitance ^e	C _{S(off)}	$f = 1 \text{ MHz}, V_S = 0 \text{ V}, V_{\overline{EN}} = 0 \text{ V}$	Room		4		
Drain Off Capacitance ^e	C _{D(off)}	$f = 1 \text{ MHz}, V_D = 0 \text{ V}, V_{\overline{EN}} = 2 \text{ V}$	Room		8		pF
Drain On Capacitance ^e	C _{D(on)}	$f = 1 \text{ MHz}, V_D = 0 \text{ V}, V_{\overline{EN}} = 0 \text{ V}$	Room		15		
Power Supply							
Power Supply Current	I+	$V_{\overline{EN}} = V_A = 0 \text{ V or V} +$	Room			1	μΑ



SPECIFICATIONS (Sin	gle Suppl	y 3 V)						
Parameter	Symbol	Test Condition Unless Otherwise Specified Symbol		Limits - 40 °C to 85°C				
		$V += 3 V, \pm 10 \%, V -= 0 V$ $V_{\overline{EN}} = 0.4 V \text{ or } 2 V$	Temp.b	Min.c	Typ.d	Max.c	Unit	
Analog Switch	Analog Switch							
Analog Signal Range ^e	V _{ANALOG}		Full	0		3	V	
On-Resistance	R _{ON}	$V + = 2.7 \text{ V}, V_D = 1.5 \text{ V}, I_S = 0.1 \text{ mA}$	Room		130		0	
R _{ON} Match Between Channels ^g	ΔR_{ON}	$V += 2.7 V$, $V_D = 1.5 V$, $I_S = 0.1 mA$	Room			12	Ω	
Switch Off Leakage Current ^a	I _{S(off)}	$V + = 3.3 \text{ V}, V_{\overline{EN}} = 2 \text{ V}$	Room Full	- 1 - 20		1 20		
Switch Off Leakage Current	I _{D(off)}	$V_S = 3 \text{ or } 0.3 \text{ V}, V_D = 0.3 \text{ or } 3 \text{ V}$	Room Full	- 1 - 20		1 20	nA	
Channel On Leakage Current ^a	I _{D(on)}	$V += 3.3 \text{ V}, V_{\overline{EN}} = 0 \text{ V}$ $V_S = 3 \text{ or } 0.3 \text{ V}, V_D = 0.3 \text{ or } 3 \text{ V}$	Room Full	- 2 - 10		2 10		
Digital Control	L					L		
Logic High Input Voltage	V _{INH}		Full	2			V	
Logic Low Input Voltage	V _{INL}		Full			0.4	V	
Input Current ^a	I _{IN}	$V_{AX} = V_{\overline{EN}} = 2 \text{ V or } 0.4 \text{ V}$	Full	- 1		1	μΑ	
Dynamic Characteristics								
Transition Time	t _{TRANS}	$V += 2.7 \text{ V}, V_{NO/NC} = 1.5 \text{ V}/0 \text{ V}, 0 \text{ V}/1.5 \text{ V}$ $R_L = 300 \ \Omega, C_L = 35 \text{ pF}$	Room		80			
Break-Before-Make Time	t _{BBM}	$V + = 2.7 \text{ V}, V_{X,Y,Z} = 1.5 \text{ V}, V_S = 0 \text{ V},$	Room Full	5	25		ns	
Enable Turn-On Time	t _{ON(EN)}	$R_L = 300 \Omega, C_L = 35 pF$	Room		90			
Enable Turn-Off Time	t _{OFF(EN)}		Room		30			
Charge Injection ^e	Q	C_L = 1 nF, V_{GEN} = 0 V, R_{GEN} = 0 Ω	Room		9		pC	
Off-Isolation ^{e,h}	OIRR	$f = 1 \text{ MHz}, R_1 = 50 \Omega$	Room		- 78		dB	
Crosstalk ^e	X _{TALK}	1 – 1 1011 12, 11[– 30 52	Room		- 83		uБ	
Source Off Capacitance ^e	C _{S(off)}	$f = 1 \text{ MHz}, V_{S} = 0 \text{ V}, V_{\overline{EN}} = 1.8 \text{ V}$	Room		5			
Drain Off Capacitance ^e	C _{D(off)}	$f = 1 \text{ MHz}, V_D = 0 \text{ V}, V_{\overline{EN}} = 1.8 \text{ V}$	Room		10		pF	
Drain On Capacitance ^e	C _{D(on)}	$f = 1 \text{ MHz}, V_D = 0 \text{ V}, V_{\overline{EN}} = 0 \text{ V}$	Room		15			
Power Supply								
Power Supply Current	l+	$V_{\overline{EN}} = V_A = 0 \text{ V or V} +$	Room			1	μΑ	

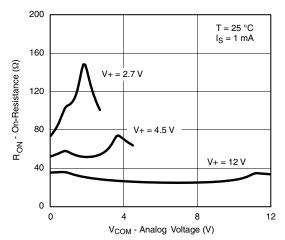
Notes:

- a. Leakage parameters are guaranteed by worst case test condition and not subject to production test.
- b. Room = 25° C, Full = as determined by the operating temperature suffix.
- c. The algebraic convention whereby the most negative value is a minimum and the most positive a maximum, is used in this data sheet.
- d. Typical values are for DESIGN AID ONLY, not guaranteed nor subject to production testing.
- e. Guaranteed by design, not subject to production test.
- f. V_{IN} = input voltage to perform proper function.
- g. $\Delta R_{DON} = R_{DON} Max R_{DON} Min$.
- h. Worst case isolation occurs on Channel 4 due to proximity to the drain pin.
- i. R_{DON} flatness is measured as the difference between the minimum and maximum measured values across a defined Analog signal.

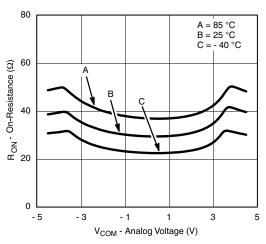
Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.



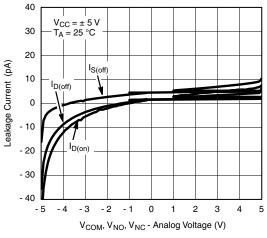
TYPICAL CHARACTERISTICS (T_A = 25 °C, unless otherwise noted)



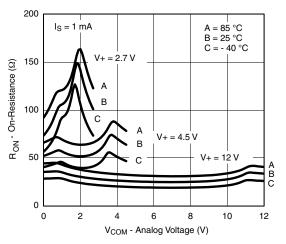
 $\rm R_{ON}$ vs. $\rm V_{COM}$ and Supply Voltage



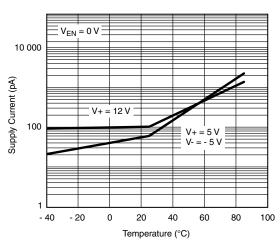
R_{ON} vs. Analog Voltage and Temperature



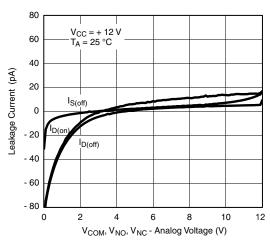
Leakage Current vs. Analog Voltage



R_{ON} vs. Analog Voltage and Temperature

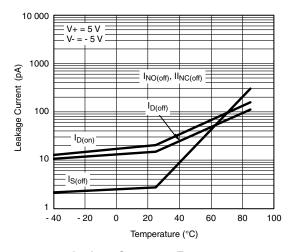


Supply Current vs. Temperature

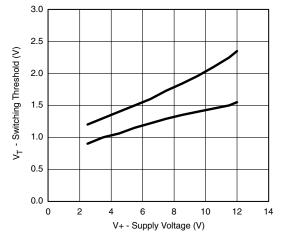


Leakage Current vs. Analog Voltage

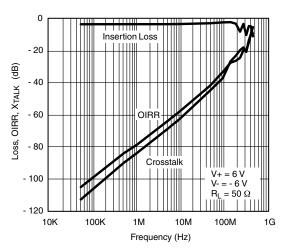
TYPICAL CHARACTERISTICS (T_A = 25 °C, unless otherwise noted)



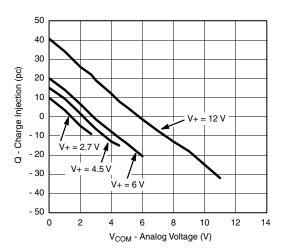
Leakage Current vs. Temperature



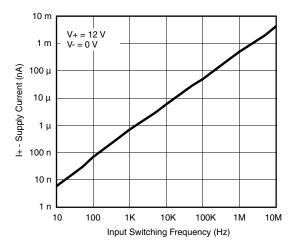
Switching Threshold vs. Supply Voltage



Insertion Loss, Off-Isolation Crosstalk vs. Frequency



Charge Injection vs. Analog Voltage



Supply Current vs. Input Switching Frequency



TEST CIRCUITS

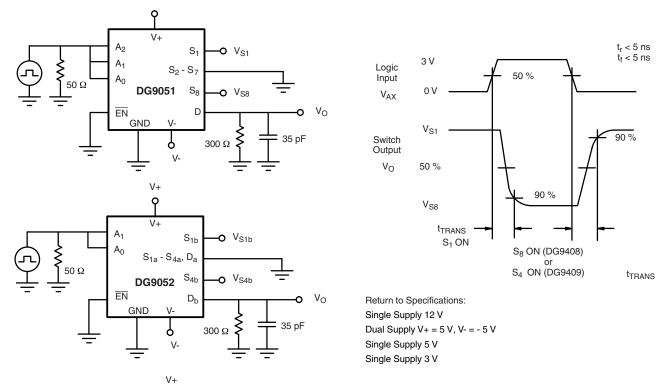


Figure 1. Transition Time

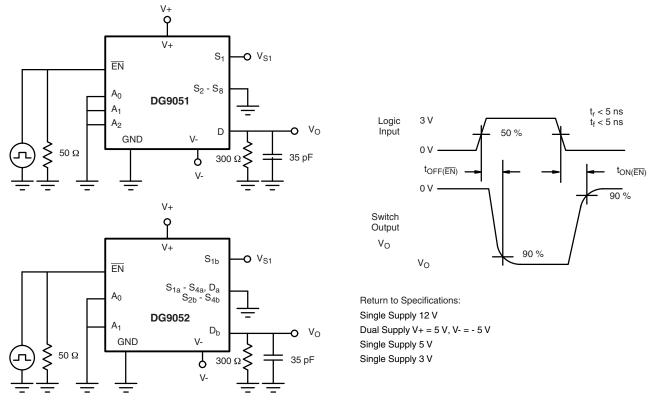
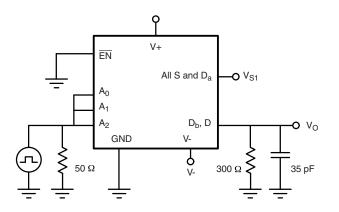
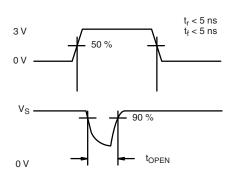


Figure 2. Enable Switching Time

TEST CIRCUITS







Return to Specifications: Single Supply 12 V Dual Supply V+ = 5 V, V- = -5 VSingle Supply 5 V Single Supply 3 V

Figure 3. Break-Before-Make Interval

Logic Input

Switch

Output

 V_{O}

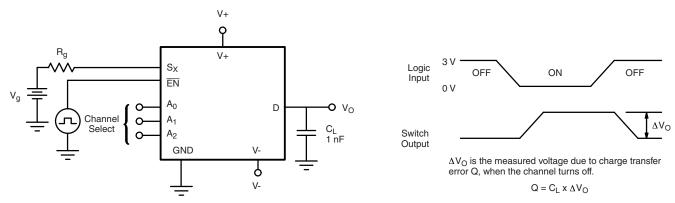


Figure 4. Charge Injection

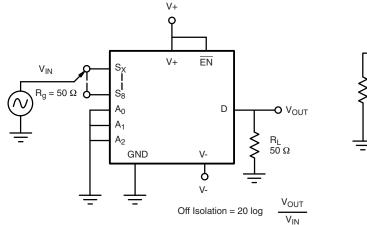


Figure 5. Off Isolation

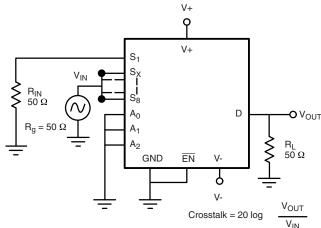


Figure 6. Crosstalk

TEST CIRCUITS

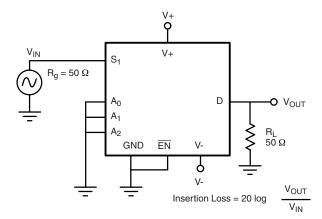


Figure 7. Insertion Loss

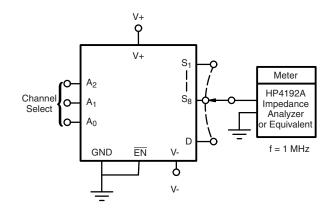
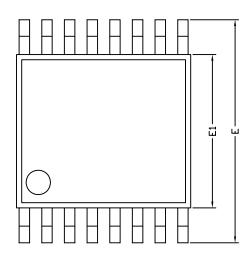


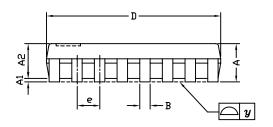
Figure 8. Source Drain Capacitance

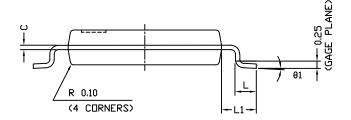
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TSSOP: 16-LEAD







	DII	MENSIONS IN MILLIMETE	RS
Symbols	Min	Nom	Max
А	=	1.10	1.20
A1	0.05	0.10	0.15
A2	=	1.00	1.05
В	0.22	0.28	0.38
С	=	0.127	-
D	4.90	5.00	5.10
E	6.10	6.40	6.70
E1	4.30	4.40	4.50
е	-	0.65	-
L	0.50	0.60	0.70
L1	0.90	1.00	1.10
у	=	-	0.10
θ1	0°	3°	6°
ECN: S-61920-Rev. D. 23-0	Oct-06	<u> </u>	

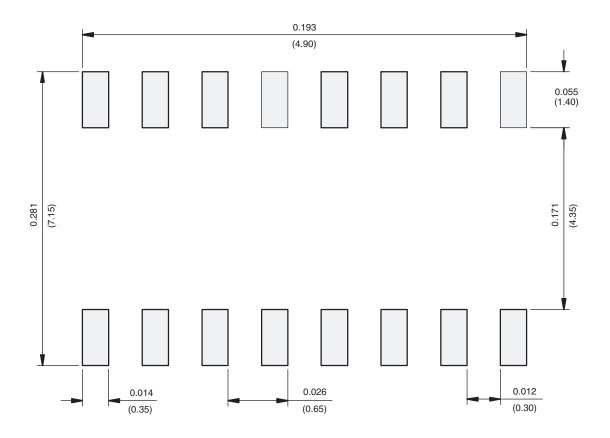
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DWG: 5624

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RECOMMENDED MINIMUM PAD FOR TSSOP-16



Recommended Minimum Pads Dimensions in inches (mm)



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