

1.0 pC Charge Injection, 100 pA Leakage, 4-Channel Multiplexer

DESCRIPTION

The DG604 is an analog 4-channel CMOS, multiplexer, designed to operate from a +2.7 V to +12 V single supply or from ±2.7 V to ±5 V, dual supplies. The DG604 is fully specified at +3 V, +5 V and ±5 V. All control logic inputs have guaranteed 2 V logic high limits when operating from +5 V or ±5 V supplies and 1.4 V when operating from a 3 V supply. The DG604 switches conduct equally well in both directions and offer rail to rail analog signal handling. < 1 pC low charge injection, coupled with very low switch capacitance and leakage current makes this product ideal for use in precision instrumentation applications. Operating temperature range is specified from -40 °C to +125 °C. The DG604 is available in 14 lead TSSOP and the space saving 1.8 mm x 2.6 mm miniQFN package.

FEATURES

- Halogen-free according to IEC 61249-2-21 Definition
- Ultra low charge injection (± 1 pC, typ. over the full analog signal range)
- Leakage current < 0.5 nA max. at 85 °C (for DG604EQ-T1-E3)
- Low switch capacitance (C_{soff} , 3 pF typ.)
- Low $R_{\text{DS(on)}}$ - 115 Ω max.
- Fully specified with single supply operation at 3 V, 5 V and dual supplies at ± 5 V
- Low voltage, 2.5 V CMOS/TTL compatible
- 400 MHz, -3 dB bandwidth
- Excellent isolation and crosstalk performance (typ. > -60 dB at 10 MHz)
- Fully specified from -40 °C to 85 °C and -40 °C to +125 °C
- 14 pin TSSOP and 16 pin miniQFN package (1.8 mm x 2.6 mm)
- Compliant to RoHS Directive 2002/95/EC

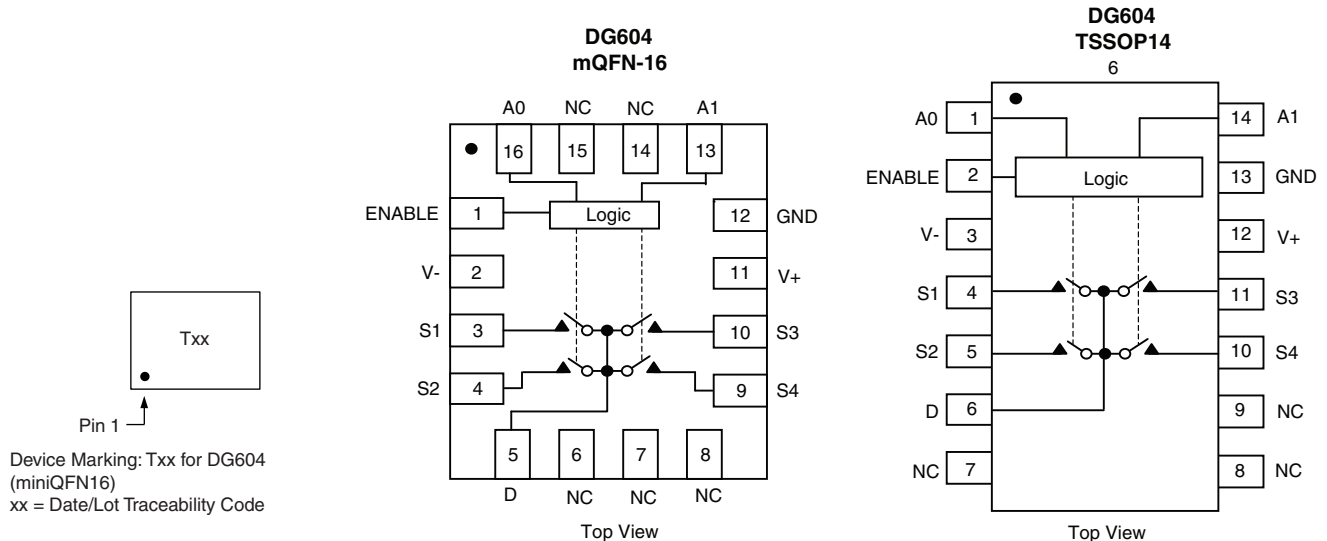


RoHS
COMPLIANT
HALOGEN
FREE

APPLICATIONS

- High-end data acquisition
- Medical instruments
- Precision instruments
- High speed communications applications
- Automated test equipment
- Sample and hold applications

FUNCTIONAL BLOCK DIAGRAM AND PIN CONFIGURATION





TRUTH TABLE			
Enable Input	Selected Input		On Switches
	A1	A0	DG604
L	X	X	All Switches Open
H	L	L	D to S1
H	L	H	D to S2
H	H	L	D to S3
H	H	H	D to S4

ORDERING INFORMATION		
Temp. Range	Package	Part Number
- 40 °C to 125 °C ^a	14 pin TSSOP	DG604EQ-T1-E3
	16 pin miniQFN	DG604EN-T1-E4

Notes:

a. - 40 °C to 85 °C datasheet limits apply.

ABSOLUTE MAXIMUM RATINGS $T_A = 25\text{ °C}$, unless otherwise noted			
Parameter		Limit	Unit
V+ to V-		14	V
GND to V-		7	
Digital Inputs ^a , V _S , V _D		(V-) - 0.3 to (V+) + 0.3 or 30 mA, whichever occurs first	
Continuous Current (Any Terminal)		30	mA
Peak Current, S or D (Pulsed 1 ms, 10 % Duty Cycle)		100	
Storage Temperature		- 65 to 150	°C
Power Dissipation (Package) ^b	14 pin TSSOP ^c	450	mW
	16 pin miniQFN ^{d, e}	525	
Thermal Resistance (Package) ^b	14 pin TSSOP	178	C/W
	16 pin miniQFN	152	

Notes:

a. Signals on SX, DX, or INX exceeding V+ or V- will be clamped by internal diodes. Limit forward diode current to maximum current ratings.

b. All leads welded or soldered to PC board.

c. Derate 5.6 mW/°C above 70 °C.

d. Derate 6.6 mW/°C above 70 °C.

e. Manual soldering with iron is not recommended for leadless components. The miniQFN-16 is a leadless package. The end of the lead terminal is exposed copper (not plated) as a result of the singulation process in manufacturing. A solder fillet at the exposed copper lip cannot be guaranteed and is not required to ensure adequate bottom side solder interconnection.

SPECIFICATIONS FOR DUAL SUPPLIES									
Parameter	Symbol	Test Conditions Unless Otherwise Specified V+ = 5 V, V- = - 5 V V _{IN} A0, A1 and ENABLE = 2 V, 0.8 V ^a	Temp. ^b	Typ. ^c	- 40 °C to 125 °C		- 40 °C to 85 °C		Unit
					Min. ^d	Max. ^d	Min. ^d	Max. ^d	
Analog Switch									
Analog Signal Range ^e	V _{ANALOG}		Full		- 5	5	- 5	5	V
On-Resistance	R _{DS(on)}	I _S = 1 mA, V _D = - 3 V, 0 V, + 3 V	Room Full	70		115 160		115 140	Ω
On-Resistance Match	ΔR _{ON}	I _S = 1 mA, V _D = ± 3 V	Room Full	1		5 6.5		5 6.5	
On-Resistance Flatness	R _{FLATNESS}	I _S = 1 mA, V _D = - 3 V, 0 V, + 3 V	Room Full	10		20 33		20 22	



SPECIFICATIONS FOR DUAL SUPPLIES									
Parameter	Symbol	Test Conditions Unless Otherwise Specified V+ = 5 V, V- = - 5 V VIN A0, A1 and ENABLE = 2 V, 0.8 V ^a	Temp. ^b	Typ. ^c	- 40 °C to 125 °C		- 40 °C to 85 °C		Unit
					Min. ^d	Max. ^d	Min. ^d	Max. ^d	
Analog Switch									
Switch Off Leakage Current (for 14 pin TSSOP)	I _{S(off)}	V+ = 5.5 V, V- = - 5.5 V V _D = ± 4.5 V, V _S = ∓ 4.5 V	Room Full	± 0.01	- 0.1	0.1	- 0.1	0.1	nA
	I _{D(off)}		Room Full	± 0.01	- 0.1	0.1	- 0.1	0.1	
Channel On Leakage Current (for 14 pin TSSOP)	I _{D(on)}	V+ = 5.5 V, V- = - 5.5 V, V _S = V _D = ± 4.5 V	Room Full	± 0.01	- 0.1	0.1	- 0.1	0.1	
Switch Off Leakage Current (for 16 pin miniQFN)	I _{S(off)}	V+ = 5.5 V, V- = - 5.5 V V _D = ± 4.5 V, V _S = ∓ 4.5 V	Room Full	± 0.01	- 1	1	- 1	1	
	I _{D(off)}		Room Full	± 0.01	- 1	1	- 1	1	
Channel On Leakage Current (for 16 pin miniQFN)	I _{D(on)}	V+ = 5.5 V, V- = - 5.5 V, V _S = V _D = ± 4.5 V	Room Full	± 0.01	- 1	1	- 1	1	
Digital Control									
Input Current, V _{IN} Low	I _{IL}	V _{IN} A0, A1 and ENABLE Under Test = 0.8 V	Full	0.005	- 0.1	0.1	- 0.1	0.1	μA
Input Current, V _{IN} High	I _{IH}	V _{IN} A0, A1 and ENABLE Under Test = 2 V	Full	0.005	- 0.1	0.1	- 0.1	0.1	
Input Capacitance ^e	C _{IN}	f = 1 MHz	Room	3.4					pF
Dynamic Characteristics									
Transition Time	t _{TRANS}	V _{S(CLOSE)} = 3 V, V _{S(OPEN)} = 0 V, R _L = 300 Ω, C _L = 35 pF	Room Full	20		70		70	ns
Turn-On Time	t _{ON}	R _L = 300 Ω, C _L = 35 pF V _S = ± 3 V	Room Full	16		60		60	
Turn-Off Time	t _{OFF}		Room Full	15		52		52	
Break-Before-Make Time Delay	t _D	V _S = 3 V R _L = 300 Ω, C _L = 35 pF	Room Full	15	10		10		
Charge Injection ^e	Q	V _g = 0 V, R _g = 0 Ω, C _L = 1 nF	Room	0.7					pC
Off Isolation ^e	OIRR	R _L = 50 Ω, C _L = 5 pF, f = 10 MHz	Room	- 72					dB
Bandwidth ^e	BW	R _L = 50 Ω	Room	400					MHz
Channel-to-Channel Crosstalk ^e	X _{TALK}	R _L = 50 Ω, C _L = 5 pF, f = 10 MHz	Room	- 81					dB
Source Off Capacitance ^e	C _{S(off)}	f = 1 MHz	Room	2.7					pF
Drain Off Capacitance ^e	C _{D(off)}		Room	7.3					
Channel On Capacitance ^e	C _{D(on)}		Room	13.8					
Total Harmonic Distortion ^e	THD	Signal = 1 V _{RMS} , 20 Hz to 20 kHz, R _L = 600 Ω	Room	0.01					%
Power Supplies									
Power Supply Current	I+	V _{IN} = 0 V, or V+	Room Full	0.001		0.5		0.5	μA
Negative Supply Current	I-		Room Full	- 0.001	- 0.5		- 0.5		
Ground Current	I _{GND}		Room Full	- 0.001	- 0.5		- 0.5		



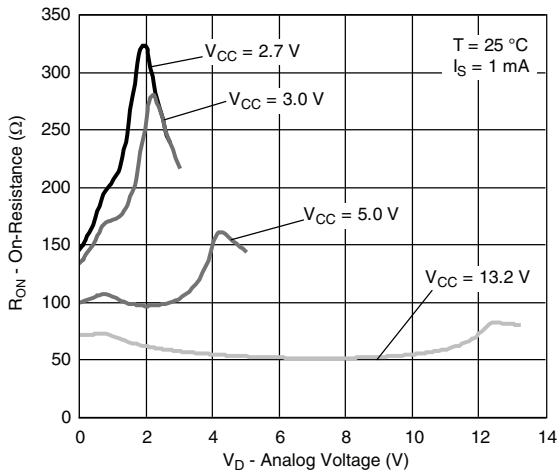
SPECIFICATIONS FOR SINGLE SUPPLY									
Parameter	Symbol	Test Conditions Unless Otherwise Specified V ₊ = 5 V, V ₋ = 0 V V _{IN A0, A1} and ENABLE = 2 V, 0.8 V ^a	Temp. ^b	Typ. ^c	- 40 °C to 125 °C		- 40 °C to 85 °C		Unit
					Min. ^d	Max. ^d	Min. ^d	Max. ^d	
Analog Switch									
Analog Signal Range ^e	V _{ANALOG}		Full			5		5	V
On-Resistance	R _{DS(on)}	I _S = 1 mA, V _D = + 3.5 V	Room Full	120		170 250		170 200	Ω
On-Resistance Match	ΔR _{ON}	I _S = 1 mA, V _D = + 3.5 V	Room Full	3		5 12		5 10	
Switch Off Leakage Current (for 14 pin TSSOP)	I _{S(off)}	V ₊ = 5.5 V, V ₋ = 0 V V _D = 1 V/4.5 V, V _S = 4.5 V/1 V	Room Full	± 0.01	- 0.1 - 18	0.1 18	- 0.1 - 0.5	0.1 0.5	nA
	I _{D(off)}		Room Full	± 0.01	- 0.1 - 18	0.1 18	- 0.1 - 0.5	0.1 0.5	
Channel On Leakage Current (for 14 pin TSSOP)	I _{D(on)}	V ₊ = 5.5 V, V ₋ = 0 V V _S = V _D = 1 V/4.5 V	Room Full	± 0.01	- 0.1 - 18	0.1 18	- 0.1 - 0.5	0.1 0.5	
Switch Off Leakage Current (for 16 pin miniQFN)	I _{S(off)}	V ₊ = 5.5 V, V ₋ = - 5.5 V V _D = 1 V/4.5 V, V _S = 4.5 V/1 V	Room Full	± 0.01	- 1 - 18	1 18	- 1 - 2	1 2	
	I _{D(off)}		Room Full	± 0.01	- 1 - 18	1 18	- 1 - 2	1 2	
Channel On Leakage Current (for 16 pin miniQFN)	I _{D(on)}	V ₊ = 5.5 V, V ₋ = 0 V, V _S = V _D = 1 V/4.5 V	Room Full	± 0.01	- 1 - 18	1 18	- 1 - 2	1 2	
Digital Control									
Input Current, V _{IN} Low	I _L	V _{IN A0, A1} and ENABLE Under Test = 0.8 V	Full	0.005	- 0.1	0.1	- 0.1	0.1	μA
Input Current, V _{IN} High	I _H	V _{IN A0, A1} and ENABLE Under Test = 2 V	Full	0.005	- 0.1	0.1	- 0.1	0.1	
Input Capacitance	C _{IN}	f = 1 MHz	Room	4.3					pF
Dynamic Characteristics									
Transition Time	t _{TRANS}	V _{S(CLOSE)} = 3 V, V _{S(OPEN)} = 0 V, R _L = 300 Ω, C _L = 35 pF	Room Full	36		75 120		75 95	ns
Enable Turn-On Time	t _{ON(EN)}		Room Full	30		70 102		70 80	
Enable Turn-Off Time	t _{OFF(EN)}		Room Full	17		47 88		47 63	
Break-Before-Make-Time	t _{BMM}		Room Full	23	5		5		
Charge Injection	Q	C _L = 1 nF, R _{GEN} = 0 Ω, V _{GEN} = 0 V	Full	0.15					pC
Off-Isolation ^e	OIRR	f = 10 MHz, R _L = 50 Ω, C _L = 5 pF	Room	- 58					dB
Crosstalk ^e	X _{TALK}		Room	- 81					
Bandwidth ^e	BW	R _L = 50 Ω	Room	330					MHz
Total Harmonic Distortion	THD	Signal = 1 V _{RMS} , 20 Hz to 20 kHz, R _L = 600 Ω	Room	0.009					%
Source Off Capacitance ^e	C _{S(off)}	f = 1 MHz	Room	3.1					pF
Drain Off Capacitance ^e	C _{D(off)}			11.6					
Channel On Capacitance ^e	C _{D(on)}			16.2					
Power Supplies									
Power Supply Current	I ₊	V _{IN} = 0 V, or V ₊	Room Full	0.001		0.5 1		0.5 1	μA
Negative Supply Current	I ₋		Room Full	- 0.001	- 0.5 - 1		- 0.5 - 1		
Ground Current	I _{GND}		Room Full	- 0.001	- 0.5 - 1		- 0.5 - 1		



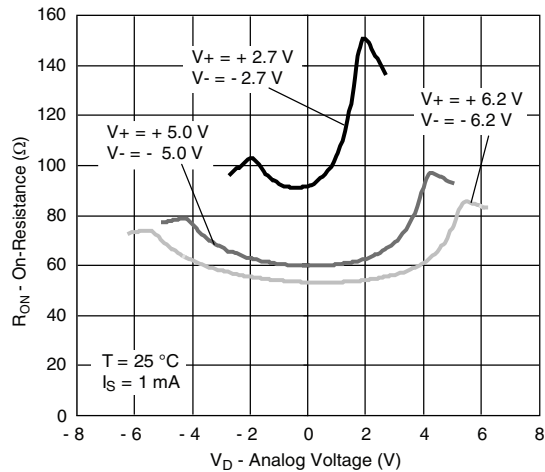
SPECIFICATIONS FOR SINGLE SUPPLY									
Parameter	Symbol	Test Conditions Unless Otherwise Specified V ₊ = 3 V, V ₋ = 0 V V _{IN A0, A1} and ENABLE = 1.4 V, 0.6 V ^a	Temp. ^b	Typ. ^c	- 40 °C to + 125 °C		- 40 °C to + 85 °C		Unit
					Min. ^d	Max. ^d	Min. ^d	Max. ^d	
Analog Switch									
Analog Signal Range ^e	V _{ANALOG}		Full			3		3	V
On-Resistance	R _{DS(ON)}	I _S = 1 mA, V _D = + 1.5 V	Room Full	200		245 325		245 290	Ω
On-Resistance Match	ΔR _{ON}	I _S = 1 mA, V _D = + 1.5 V	Room Full	5		6 13		11 6	
Switch Off Leakage Current (for 14 pin TSSOP)	I _{S(off)}	V ₊ = 3 V, V ₋ = 0 V V _D = 1 V/3 V, V _S = 3 V/1 V	Room Full	± 0.01	- 0.1 - 18	0.1 18	- 0.1 - 0.5	0.1 0.5	nA
	I _{D(off)}		Room Full	± 0.01	- 0.1 - 18	0.1 18	- 0.1 - 0.5	0.1 0.5	
Channel On Leakage Current (for 14 pin TSSOP)	I _{D(on)}	V ₊ = 3 V, V ₋ = 0 V V _S = V _D = 1 V/3 V	Room Full	± 0.01	- 0.1 - 18	0.1 18	- 0.1 - 0.5	0.1 0.5	
Switch Off Leakage Current (for 16 pin miniQFN)	I _{S(off)}	V ₊ = 3.3 V, V ₋ = 0 V V _D = 1 V/3 V, V _S = 3 V/1 V	Room Full	± 0.01	- 1 - 18	1 18	- 1 - 2	1 2	
	I _{D(off)}		Room Full	± 0.01	- 1 - 18	1 18	- 1 - 2	1 2	
Channel On Leakage Current (for 16 pin miniQFN)	I _{D(on)}	V ₊ = 3.3 V, V ₋ = 0 V V _D = 1 V/3 V, V _S = 3 V/1 V	Room Full	± 0.01	- 1 - 18	1 18	- 1 - 2	1 2	
Digital Control									
Input Current, V _{IN} Low	I _L	V _{IN A0, A1} and ENABLE Under Test = 0.6 V	Full	0.005	- 1	1	- 1	1	μA
Input Current, V _{IN} High	I _H	V _{IN A0, A1} and ENABLE Under Test = 1.4 V	Full	0.005	- 1	1	- 1	1	
Input Capacitance	C _{IN}	f = 1 MHz	Room	4.3					pF
Dynamic Characteristics									
Transition Time	t _{TRANS}	V _{S(CLOSE)} = 3 V, V _{S(OPEN)} = 0 V, R _L = 300 Ω, C _L = 35 pF	Room Full	95		130 190		130 160	ns
Enable Turn-On Time	t _{ON(EN)}		Room Full	77		108 161		108 131	
Enable Turn-Off Time	t _{OFF(EN)}		Room Full	35		76 112		76 88	
Break-Before-Make-Time	t _{BMM}		Room Full	45	5		5		
Charge Injection	Q	C _L = 1 nF, R _{GEN} = 0 Ω, V _{GEN} = 0 V	Full	0.1					pC
Off-Isolation ^e	OIRR	f = 10 MHz, R _L = 50 Ω, C _L = 5 pF	Room	- 58					dB
Crosstalk ^e	X _{TALK}		Room	- 90					
Bandwidth ^e	BW	R _L = 50 Ω	Room	290					MHz
Total Harmonic Distortion	THD	Signal = 1 V _{RMS} , 20 Hz to 20 kHz, R _L = 600 Ω	Room	0.09					%
Source Off Capacitance ^e	C _{S(off)}	f = 1 MHz	Room	3.1					pF
Drain Off Capacitance ^e	C _{D(off)}			11.7					
Channel On Capacitance ^e	C _{D(on)}			16.5					
Power Supplies									
Power Supply Current	I ₊	V _{IN} = 0 V, or V ₊	Room Full	0.001		0.5 1		0.5 1	μA
Negative Supply Current	I ₋		Room Full	- 0.001	- 0.5 - 1		- 0.5 - 1		
Ground Current	I _{GND}		Room Full	- 0.001	- 0.5 - 1		- 0.5 - 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 in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

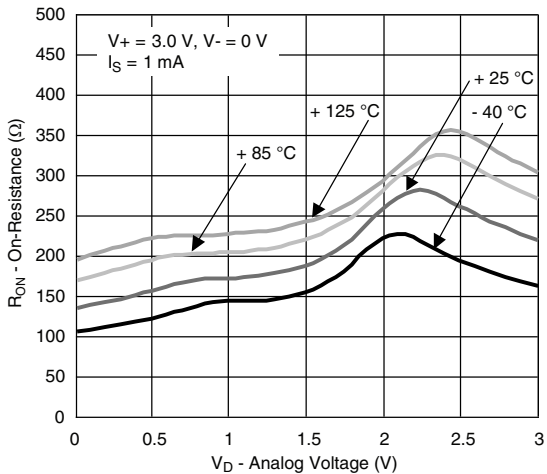
TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)



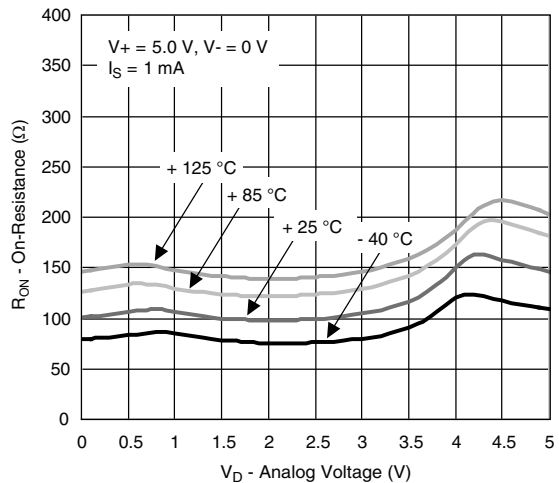
On-Resistance vs. V_D (Single Supply Voltage)



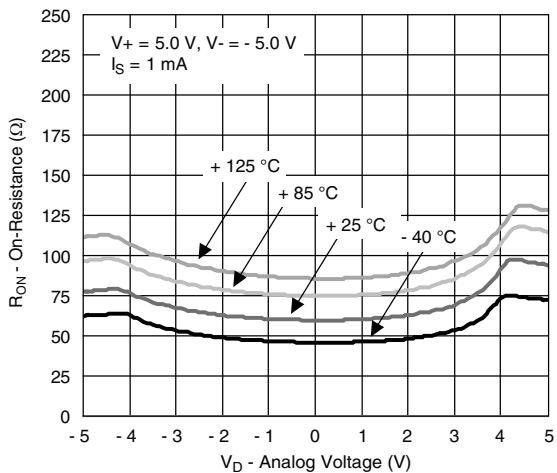
On-Resistance vs. V_D (Dual Supply Voltage)



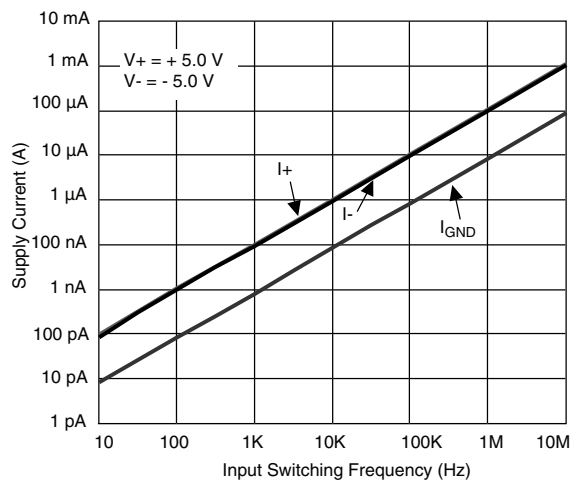
On-Resistance vs. Analog Voltage and Temperature



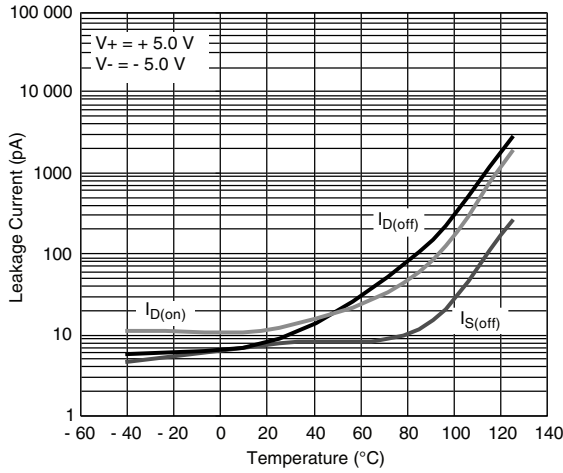
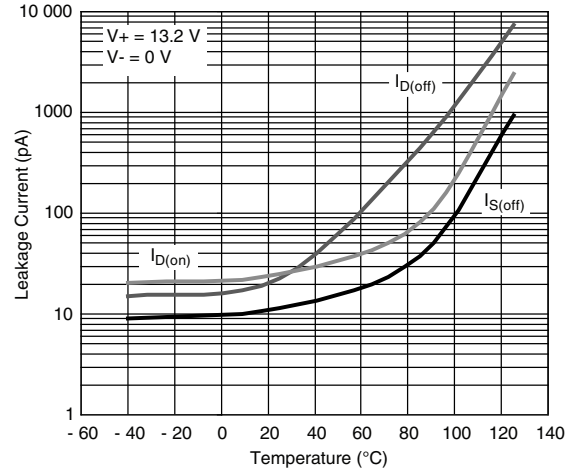
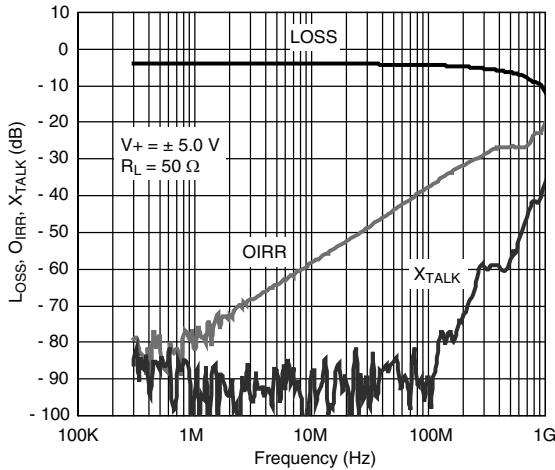
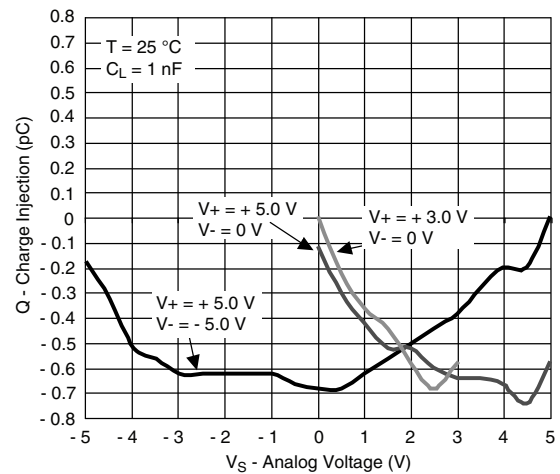
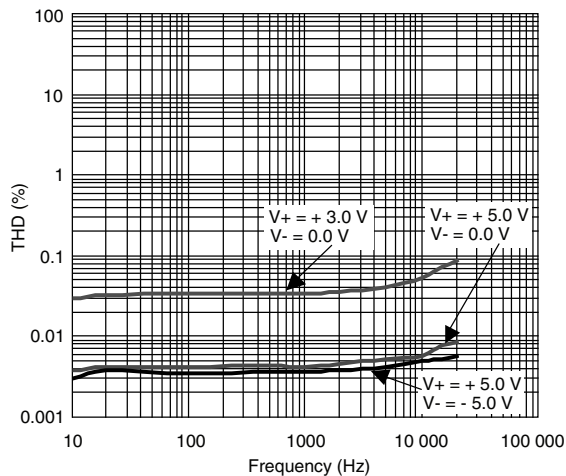
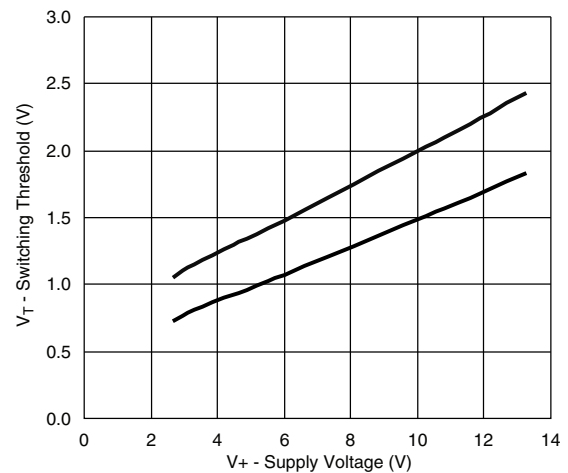
On-Resistance vs. Analog Voltage and Temperature



On-Resistance vs. Analog Voltage and Temperature



Supply Current vs. Input Switching Frequency

TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)

Leakage Current vs. Temperature

Leakage Current vs. Temperature

Insertion Loss, Off-Isolation, Crosstalk vs. Frequency

Charge Injection vs. Analog Voltage

Total Harmonic Distortion vs. Frequency

Switching Threshold vs. Supply Voltage

TEST CIRCUITS

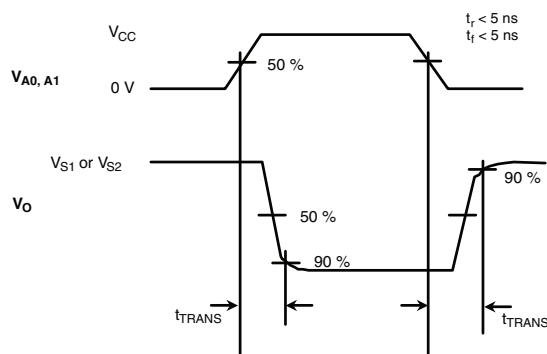
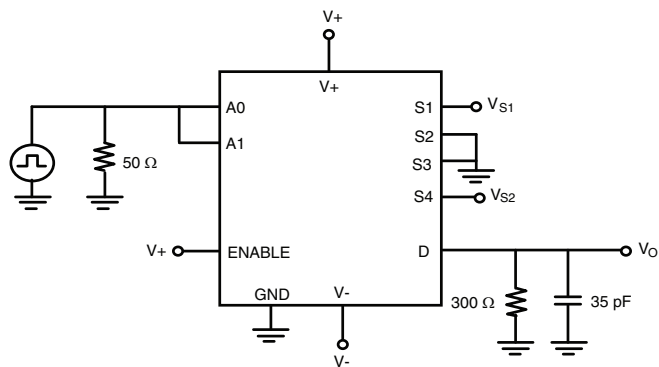


Figure 1. Transition Time

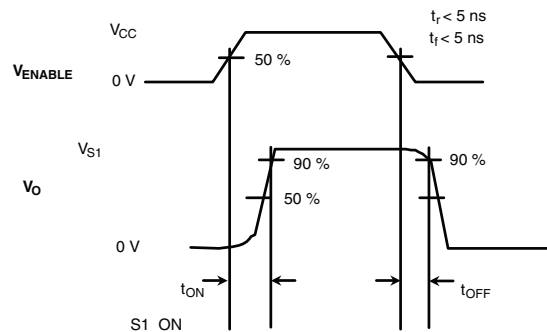
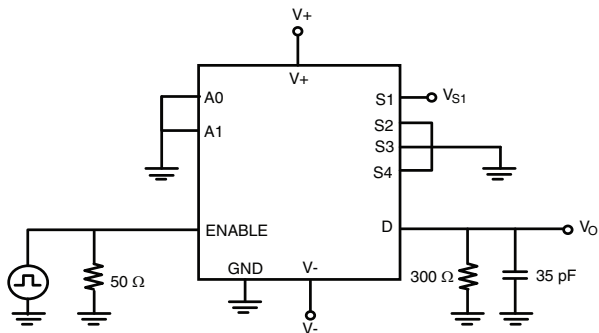


Figure 2. Enable Switching Time

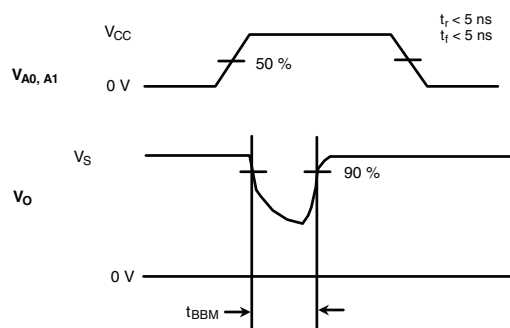
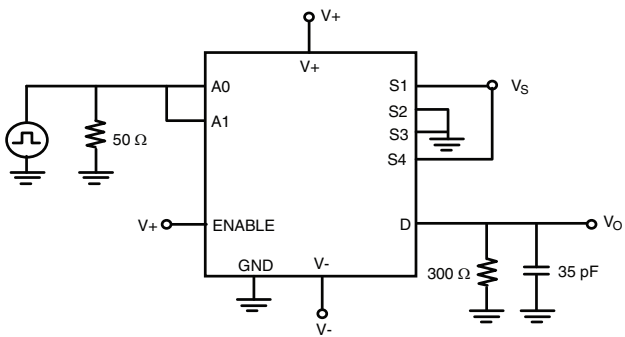


Figure 3. Break-Before-Make

TEST CIRCUITS

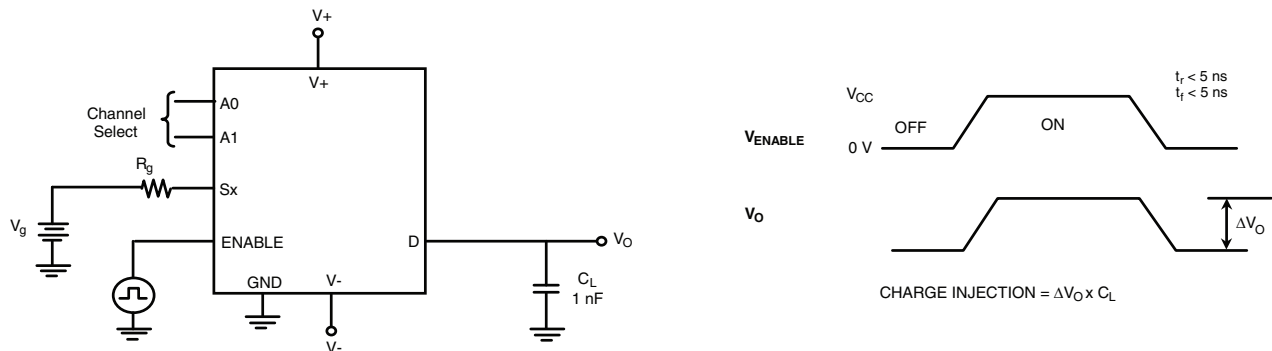


Figure 4. Charge Injection

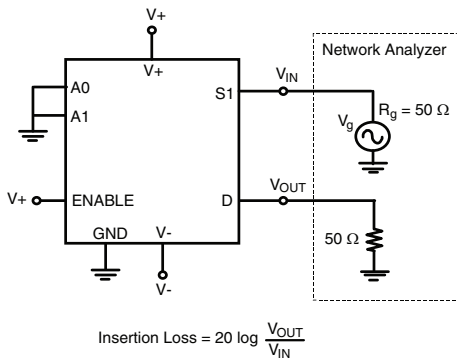


Figure 5. Insertion Loss

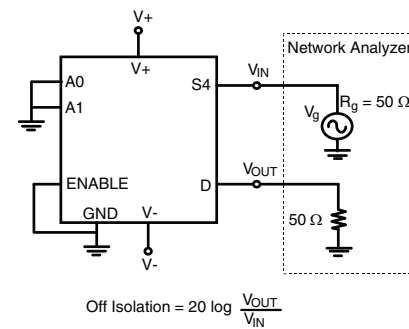


Figure 6. Off-Isolation

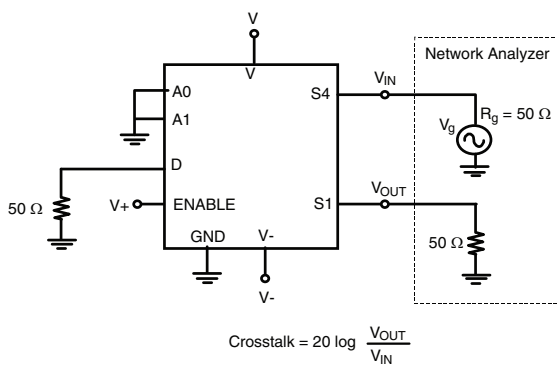


Figure 7. Crosstalk

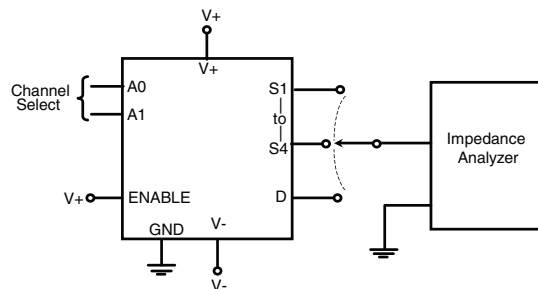
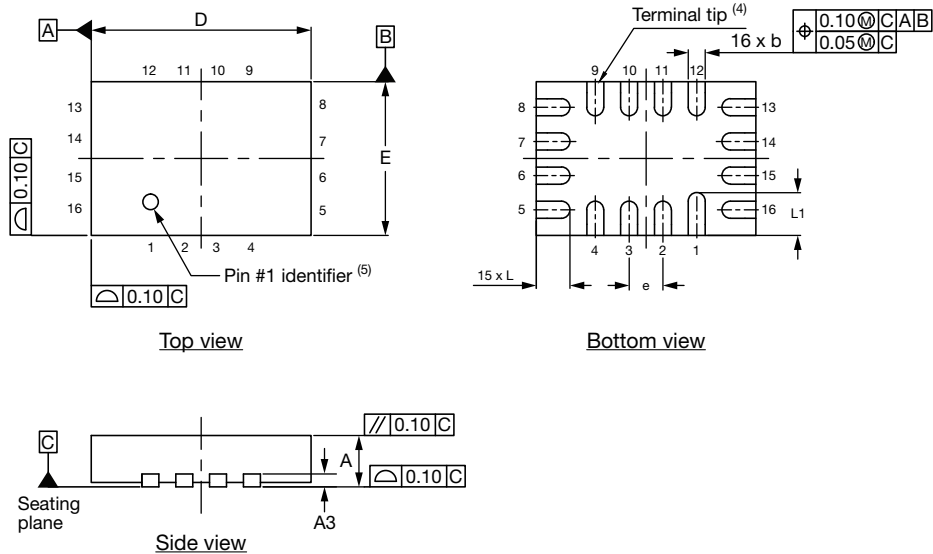


Figure 8. Source/Drain Capacitance

Vishay Siliconix maintains worldwide manufacturing capability. Products may be manufactured at one of several qualified locations. Reliability data for Silicon Technology and Package Reliability represent a composite of all qualified locations. For related documents such as package/tape drawings, part marking, and reliability data, see www.vishay.com/ppq?69934.

Thin miniQFN16 Case Outline



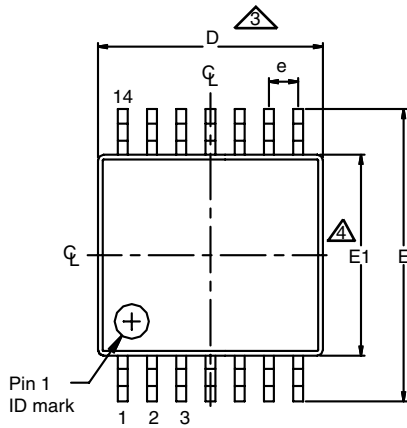
DIMENSIONS	MILLIMETERS ⁽¹⁾			INCHES		
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
A	0.50	0.55	0.60	0.020	0.022	0.024
A1	0	-	0.05	0	-	0.002
A3	0.15 ref.			0.006 ref.		
b	0.15	0.20	0.25	0.006	0.008	0.010
D	2.50	2.60	2.70	0.098	0.102	0.106
e	0.40 BSC			0.016 BSC		
E	1.70	1.80	1.90	0.067	0.071	0.075
L	0.35	0.40	0.45	0.014	0.016	0.018
L1	0.45	0.50	0.55	0.018	0.020	0.022
N ⁽³⁾	16			16		
Nd ⁽³⁾	4			4		
Ne ⁽³⁾	4			4		

Notes

- (1) Use millimeters as the primary measurement.
- (2) Dimensioning and tolerances conform to ASME Y14.5M. - 1994.
- (3) N is the number of terminals. Nd and Ne is the number of terminals in each D and E site respectively.
- (4) Dimensions b applies to plated terminal and is measured between 0.15 mm and 0.30 mm from terminal tip.
- (5) The pin 1 identifier must be existed on the top surface of the package by using identification mark or other feature of package body.
- (6) Package warpage max. 0.05 mm.

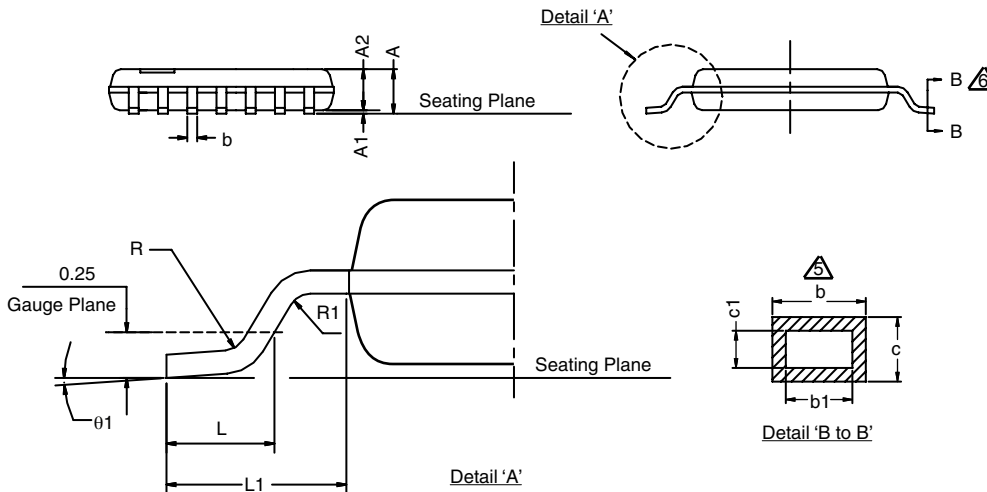
ECN: T16-0226-Rev. B, 09-May-16
 DWG: 6023

14L TSSOP



Notes:

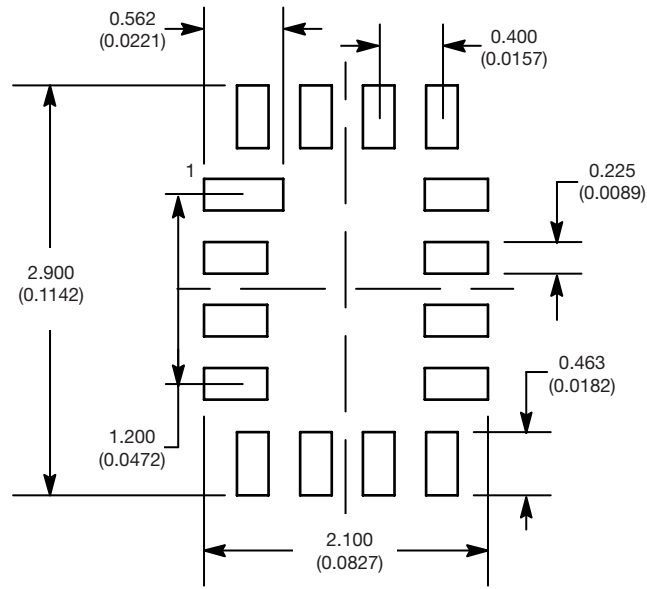
1. All dimensions are in millimeters (angles in degrees)
2. Dimensioning and tolerancing per ANSI Y14.5M-1982
- ⚠ Dimension 'D' does not include mold flash, protrusions or gate burrs
- ⚠ Dimension 'E1' does not include internal flash or protrusion
- ⚠ Dimension 'b' does not include dambar protrusion
- ⚠ Cross section B to B to be determined at 0.10 mm to 0.25 mm from the lead tip



SYMBOL	MINIMUM	NOMINAL	MAXIMUM
A	-	-	1.20
A1	0.05	-	0.15
A2	0.80	0.90	1.05
D	4.9	5.0	5.1
E1	4.3	4.4	4.5
E	6.2	6.4	6.6
L	0.45	0.60	0.75
R	0.09	-	-
R1	0.09	-	-
b	0.19	-	0.30
b1	0.19	0.22	0.25
c	0.09	-	0.20
c1	0.09	-	0.16
θ1	0°	-	8°
L1		1.0 ref.	
e		0.65 BSC	

ECN: T-07766-Rev. A, 14-Jan-08
 DWG: 5962

RECOMMENDED MINIMUM PADS FOR MINI QFN 16L



Mounting Footprint
Dimensions in mm (inch)



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