

RoHS

COMPLIANT HALOGEN

FREE

1 pC Charge Injection, 100 pA Leakage, Quad SPST Switches

DESCRIPTION

The DG611A, DG612A and DG613A contain four independently selectable SPST switches. They offer improved performance over the industry standard DG611 series. The DG611A and DG612A have all switches normally closed and normally open respectively, while the DG613A has 2 normally open and 2 normally closed switches.

They are designed to operate from a 2.7 V to 12 V single supply or from ± 2.7 V to ± 5 V dual supplies and are 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 \pm 5 V supplies and 1.4 V when operating from a + 3 V supply. The DG611A, DG612A and DG613A 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: 2 pF, fast switching speed: ton/toff 27 ns/16 ns and excellent 3 dB bandwidth: 720 MHz, make these products ideal for precision instrumentation, high-end data acquisition, automated test equipment and high speed communication applications.

Operation temperature is specified from - 40 °C to + 125 °C. The DG611A. DG612A and DG613A are available in 16 lead

SOIC, TSSOP and the space saving 1.8 mm x 2.6 mm miniQFN packages.

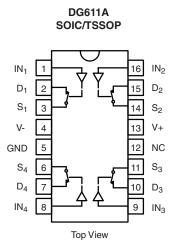
FEATURES

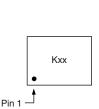
- Halogen-free according to IEC 61249-2-21 Definition
- Low charge injection (1 pC typ.)
- Leakage current < 0.25 nA at 85 °C
- Low switch capacitance (C_{soff} 2 pF typ.)
- Low $R_{DS(on)}$ 115 Ω max.
- Fully specified with single supply operation at 3 V, 5 V and dual supplies at ± 5 V
- Low voltage, 2.5 V CMOS/TTL compatible
- 720 MHz, 3 dB bandwidth
- Excellent isolation performance (62 dB at 10 MHz)
- Excellent crosstalk performance (90 dB at 10 MHz)
- Fully specified from 40 °C to + 85 °C and 40 °C to + 125 °C
- 16 lead SOIC, TSSOP and miniQFN package (1.8 mm x 2.6 mm) •
- Compliant to RoHS Directive 2002/95/EC

APPLICATIONS

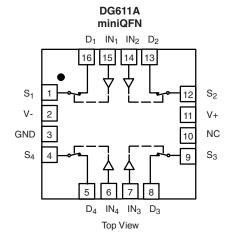
- Precision instrumentation
- Medical instrumentation
- Automated test equipment
- High speed communications applications •
- High-end data acquisition
- Sample and hold applications
- Sample and hold systems

FUNCTIONAL BLOCK DIAGRAM AND PIN CONFIGURATION





Device Marking: Kxx for DG611A Lxx for DG612A (miniQFN16) Pxx for DG613A xx = Date/Lot Traceability Code



TRUTH TABLE							
Logic	DG611A	DG612A					
0	On	Off					
1	Off	On					

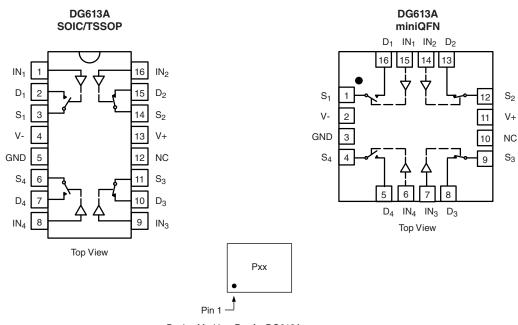
Document Number: 69904

S11-1066-Rev. C, 30-May-11

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FUNCTIONAL BLOCK DIAGRAM AND PIN CONFIGURATION



Device Marking: Pxx for DG613A (miniQFN16)

TRUTH TABLE							
Logic SW ₁ , SW ₄ SW ₂ , SW ₃							
0	Off	On					
1	On	Off					

ORDERING INFORMATION									
Temp. Range Package Part Number									
DG611A, DG612A, DG613A	DG611A, DG612A, DG613A								
		DG611AEQ-T1-E3							
	16-pin TSSOP	DG612AEQ-T1-E3							
		DG613AEQ-T1-E3							
		DG611AEY-T1-E3							
- 40 °C to 125 °C ^a	16-pin Narrow SOIC	DG612AEY-T1-E3							
		DG613AEY-T1-E3							
-		DG611AEN-T1-E4							
	16-pin miniQFN	DG612AEN-T1-E4							
		DG613AEN-T1-E4							

Notes:

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

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ABSOLUTE MAXIMUM RATINGS (T _A = 25 °C, unless otherwise noted)						
Parameter		Limit	Unit			
V + to V -		14				
GND to V -		7	v			
Digital Inputs ^a , V _S , V _D		(V -) - 0.3 V to (V +) + 0.3 V or 30 mA, whichever occurs first				
Continuous Current (Any Terminal)		30	mA			
Peak Current, S or D (Pulsed 1 ms, 10 c	% Duty Cycle)	100	IIIA			
Storage Temperature		- 65 to 150	°C			
	16-pin TSSOP ^c	450				
Power Dissipation (Package) ^b	16-pin miniQFN ^d	525	mW			
16-pin Narrow SOIC ^e		640				
	16-pin TSSOP	178				
Thermal Resistance (Package) ^b	16-pin miniQFN	152	°C/W			
	16-pin Narrow SOIC	125	7			

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.

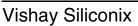
b. All leads welded or soldered to PC Board.

c. Derate 5.6 mW/°C above 70 °C.

d. Derate 6.6 mW/°C above 70 °C.

e. Derate 8 mW/°C above 70 °C.

f. 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.





		Test Conditions Unless Otherwise Specified			- 40 °C t	o 125 °C	- 40 °C	to 85 °C	
_		V + = + 5 V, V - = - 5 V	_ h		d	d	d	d	
Parameter	Symbol	V _{IN} = 2 V, 0.8 V ^a	Temp. ^b	Typ. ^c	Min. ^d	Max. ^d	Min. ^d	Max. ^d	Unit
Analog Switch	V		E.U.						V
Analog Signal Range ^e	V _{ANALOG}		Full	70	- 5	5	- 5	5	V
On-Resistance	R _{ON}	I _S = 1 mA, V _D = - 3 V, 0 V, + 3 V	Room Full	72		115 160		115 140	
On-Resistance Match	ΔR_{ON}	$I_{S} = 1 \text{ mA}, V_{D} = \pm 3 \text{ V}$	Room Full	0.7		4 6.5		4 5.5	Ω
On-Resistance Flatness	R _{FLATNESS}	$I_{S} = 1 \text{ mA}, V_{D} = -3 \text{ V}, 0 \text{ V}, + 3 \text{ V}$	Room Full	25		40 60		40 55	
Switch Off	I _{S(off)}	V + = 5.5 V, V - = - 5.5 V V _D = + 4.5 V/- 4.5 V	Room Full	± 0.02	- 0.1 - 2	0.1 2	- 0.1 - 0.25	0.1 0.25	
Leakage Current	I _{D(off)}	$V_{\rm S} = -4.5 \text{ V/+} 4.5 \text{ V}$	Room Full	± 0.02	- 0.1 - 2	0.1 2	- 0.1 - 0.25	0.1 0.25	nA
Switch On Leakage Current	I _{D(on)}	V + = 5.5 V, V - = -5.5 V $V_D = V_S = \pm 4.5 V$	Room Full	± 0.02	- 0.1 - 6	0.1 6	- 0.1 - 0.25	0.1 0.25	
Digital Control									<u> </u>
Input Current, VIN Low	۱ _{IL}	V _{IN} Under Test = 0.8 V	Full	0.005	- 0.1	0.1	- 0.1	0.1	
Input Current, V _{IN} High	I _{IH}	V _{IN} Under Test = 2 V	Full	0.005	- 0.1	0.1	- 0.1	0.1	μA
Input Capacitance ^e	C _{IN}	f = 1 MHz	Room	2					pF
Dynamic Characteristics	5				•	1	1	1	
Turn-On Time	t _{ON}	R _L = 300 Ω, C _L = 35 pF	Room Full	27		55 90		55 75	
Turn-Off Time	t _{OFF}	$V_{S} = \pm 3 V$, see figure 1	Room Full	16		35 50		35 45	ns
Break-Before-Make Time Delay	t _{BBM}	DG613A only, $V_S = 3 V$ R _L = 300 Ω , C _L = 35 pF	Room Full	15	2		2		
Charge Injection ^e	Q	$V_{g} = 0 V, R_{g} = 0 \Omega, C_{L} = 1 nF$	Room	1					рС
Off Isolation ^e	OIRR		Room	- 62					
Channel-to-Channel Crosstalk ^e	X _{TALK}	R _L = 50 Ω, C _L = 5 pF f = 10 MHz	Room	- 90					dB
3 dB Bandwidth ^e	BW	$R_L = 50 \Omega$, $C_L = 5 pF$	Room	720					MHz
Source Off Capacitance ^e	C _{S(off)}	· · · · · · · · · · · · · · · · · · ·	Room	2					<u> </u>
Drain Off Capacitance ^e	C _{D(off)}	f = 1 MHz; V _S = 0 V	Room	3					pF
Drain On Capacitance ^e	C _{D(on)}	f = 1 MHz; V _S = V _D = 0 V	Room	9					1
Total Harmonic Distortion ^e	THD	Signal = 1 V _{RMS} , 20 Hz to 20 kHz, R _I = 600 Ω	Room	0.01					%
Power Supplies					1	1	1	1	
Power Supply Current	l+		Room Full	0.001		0.1 1		0.1 1	
Negative Supply Current	I-	V + = + 5 V, V - = - 5 V V _{IN} = 0 V or 5 V	Room Full	- 0.001	- 0.1 - 1		- 0.1 - 1		μA
Ground Current	I _{GND}		Room Full	- 0.001	- 0.1 - 1		- 0.1 - 1]

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SPECIFICATIONS FOR UNIPOLAR SUPPLIES (V + = $+5$ V, V - = 0 V)									
		Test Conditions Unless Otherwise Specified			- 40 °C t	o 125 °C	- 40 °C	to 85 °C	
Parameter	Symbol	V + = + 5 V, V - = 0 V	Temp. ^b	Typ. ^c	Min. ^d	Max. ^d	Min. ^d	Max. ^d	Unit
Analog Switch	Symbol	V _{IN} = 2 V, 0.8 V ^a	Temp	Typ.*	Min.*	max	win	max	Unit
Analog Signal Range ^e	V _{ANALOG}		Full		0	5	0	5	V
		V + = + 5 V, V - = 0 V	Room	139	Ŭ	180	<u> </u>	180	•
On-Resistance	R _{ON}	$I_{S} = 1 \text{ mA}, V_{D} = + 3.5 \text{ V}$	Full	100		235		215	
On-Resistance Match	ΔR_{ON}	V + = + 5 V, $V - = 0 V$, $I_S = 1 mA$, $V_D = + 3.5 V$	Room Full	1		6 10		6 9	Ω
On-Resistance Flatness	R _{FLATNESS}	V + = + 5 V, V - = 0 V, I _S = 1 mA, V _D = 0 V, + 3.5 V	Room Full	56		80 120		80 110	
Switch Off	I _{S(off)}	V + = 5.5 V, V - = 0 V V _D = 4.5 V/1 V	Room Full	± 0.02	- 0.1 - 2	0.1 2	- 0.1 - 0.25	0.1 0.25	
Leakage Current	I _{D(off)}	V _S = 1 V/4.5 V	Room Full	± 0.02	- 0.1 - 2	0.1 2	- 0.1 - 0.25	0.1 0.25	nA
Switch On Leakage Current	I _{D(on)}	V + = 5.5 V, V - = 0 V V _D = V _S = 1 V/4.5 V	Room Full	± 0.02	- 0.1 - 6	0.1 6	- 0.1 - 0.25	0.1 0.25	
Digital Control	I				•				
Input Current, VIN Low	I _{IL}	V _{IN} Under Test = 0.8 V	Full	0.005	- 0.1	0.1	- 0.1	0.1	
Input Current, V _{IN} High	I _{IH}	V _{IN} Under Test = 2 V	Full	0.005	- 0.1	0.1	- 0.1	0.1	μA
Input Capacitance ^e	C _{IN}	f = 1 MHz	Room	2					pF
Dynamic Characteristics	5				_				
Turn-On Time ^e	t _{ON}	R_L = 300 Ω, C_L = 35 pF	Room Full	33		60 100		60 90	
Turn-Off Time ^e	t _{OFF}	$V_{S} = 3 V$, see figure 1	Room Full	16		35 50		35 45	ns
Break-Before-Make ^e Time Delay	t _{BBM}	DG613A only, $V_S = 3 V$ $R_L = 300 \Omega$, $C_L = 35 pF$	Room Full	19	2		2		
Charge Injection ^e	Q	$V_{g} = 0 V, R_{g} = 0 \Omega, C_{L} = 1 nF$	Full	2.3					рС
Off Isolation ^e	OIRR		Room	- 61					
Channel-to-Channel Crosstalk ^e	X _{TALK}	$R_{L} = 50 \ \Omega, \ C_{L} = 5 \ pF$ $f = 10 \ MHz$	Room	- 90					dB
3 dB Bandwidth ^e	BW	$R_L = 50 $ Ω, $C_L = 5 $ pF	Room	675					MHz
Source Off Capacitance ^e	C _{S(off)}		Room	3					
Drain Off Capacitance ^e	C _{D(off)}	f = 1 MHz; V _S = 0 V	Room	5					pF
Drain On Capacitance ^e	C _{D(on)}	$f = 1 \text{ MHz}; V_S = V_D = 0 \text{ V}$	Room	9					
Power Supplies	I		·		•	•	•	•	
Power Supply Current	l+		Room Full	0.001		0.1 1		0.1 1	
Negative Supply Current	l-	$V_{IN} = 0 V \text{ or } 5 V$	Room Full	- 0.001	- 0.1 - 1		- 0.1 - 1		μA
Ground Current	I _{GND}		Room Full	- 0.001	- 0.1 - 1		- 0.1 - 1		



SPECIFICATIONS		Test Conditions	,		,	o 125 °C	- 40 °C	to 85 °C	
		Unless Otherwise Specified			-40 01	0123 0	- 40 0		-
Parameter	Symbol	$V_{+} = + 3 V, V_{-} = 0 V$ $V_{1N} = 1.4 V, 0.6 V^{a}$	Temp. ^b	Typ. ^c	Min. ^d	Max. ^d	Min. ^d	Max. ^d	Unit
Analog Switch	<u> </u>	L				1		<u></u>	
Analog Signal Range ^e	V _{ANALOG}		Full		0	3	0	3	V
On-Resistance	R _{ON}	I _S = 1 mA, V _D = + 1.5 V	Room Full	195		235 300		235 280	Ω
Switch Off	I _{S(off)}	V + = 3.3 V, V = 0 V $V_D = 3 V/0.3 V$	Room Full	± 0.02	- 0.1 - 2	0.1 2	- 0.1 - 0.25	0.1 0.25	
Leakage Current	I _{D(off)}	$V_{\rm S} = 0.3 \text{ V/3 V}$	Room Full	± 0.02	- 0.1 - 2	0.1 2	- 0.1 - 0.25	0.1 0.25	nA
Switch On Leakage Current	I _{D(on)}	V + = 3.3 V, V - = 0 V $V_D = V_S = 0.3 V/3 V$	Room Full	± 0.02	- 0.1 - 6	0.1 6	- 0.1 - 0.25	0.1 0.25	
Digital Control	<u> </u>	L	1	1		1		<u></u>	
Input Current, V _{IN} Low	۱ _{IL}	V _{IN} Under Test = 0.6 V	Full	0.005	- 0.1	0.1	- 0.1	0.1	
Input Current, V _{IN} High	I _{IH}	V _{IN} Under Test = 1.4 V	Full	0.005	- 0.1	0.1	- 0.1	0.1	μA
Input Capacitance ^e	C _{IN}	f = 1 MHz	Room	2					pF
Dynamic Characteristics	•								
Turn-On Time	t _{ON}	$R_L = 300 \ \Omega$, $C_L = 35 \ pF$	Room Full	87		125 180		125 170	
Turn-Off Time	t _{OFF}	$V_{S} = 2 V$, see figure 1	Room Full	33		55 65		55 60	ns
Break-Before-Make Time Delay	t _{BBM}	DG613 only, $V_S = 2 V$ R _L = 300 Ω , C _L = 35 pF	Room Full	60	10		10		
Charge Injection ^e	Q	$V_g = 0 V$, $R_g = 0 \Omega$, $C_L = 1 nF$	Room	2.3					рС
Off Isolation ^e	OIRR	R ₁ = 50 Ω, C ₁ = 5 pF	Room	- 60					
Channel-to-Channel Crosstalk ^e	X _{TALK}	f = 10 MHz	Room	- 90					dB
3 dB Bandwidth ^e	BW	$R_L = 50 \Omega$, $C_L = 5 pF$	Room	550					MHz
Source Off Capacitance ^e	C _{S(off)}	f = 1 MHz; V _S = 0 V	Room	5					
Drain Off Capacitance ^e	C _{D(off)}	$I = I M \Pi Z, V_S = 0 V$	Room	6					pF
Drain On Capacitance ^e	C _{D(on)}	$f = 1 \text{ MHz}; V_S = V_D = 0 \text{ V}$	Room	9					
Power Supplies	- 1								<u> </u>
Power Supply Current	l+		Room Full	0.001		0.1 1		0.1 1	
Negative Supply Current	I-	V _{IN} = 0 V or 3 V	Room Full	- 0.001	- 0.1 - 1		- 0.1 - 1		μA
Ground Current	I _{GND}		Room Full	- 0.001	- 0.1 - 1		- 0.1 - 1		

Notes:

a. V_{IN} = input voltage to perform proper function.

b. Room = 25 °C, Full = as determined by the operating temperature suffix.

c. Typical values are for DESIGN AID ONLY, not guaranteed nor subject to production testing.

d. The algebraic convention whereby the most negative value is a minimum and the most positive a maximum, is used in this data sheet.

e. Guaranteed by design, not subject to production test.

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.

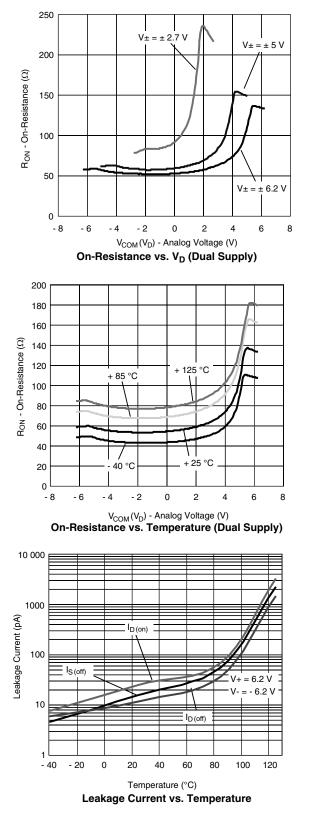
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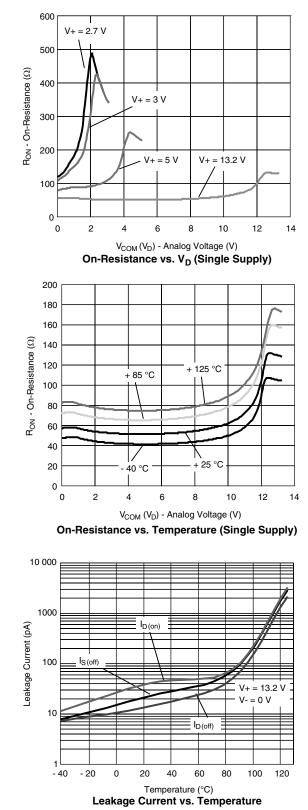


DG611A, DG612A, DG613A

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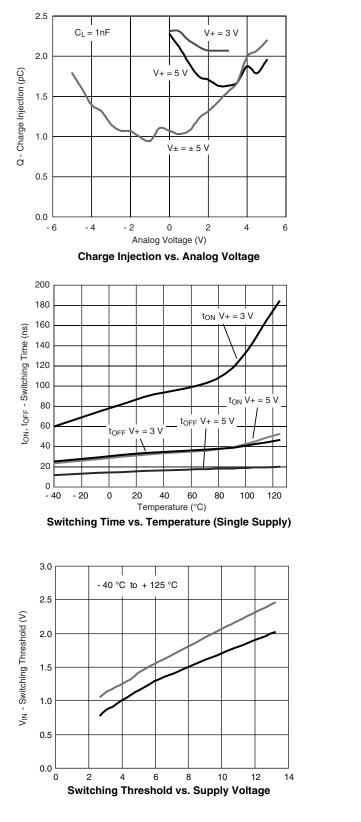
TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)

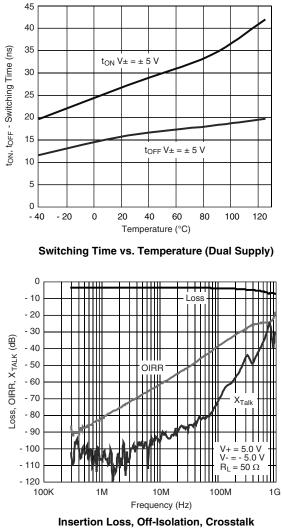


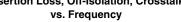


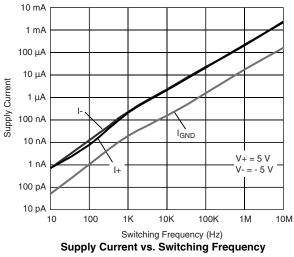


TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)









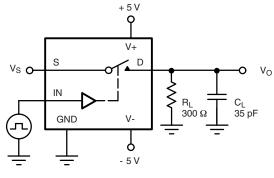
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DG611A, DG612A, DG613A

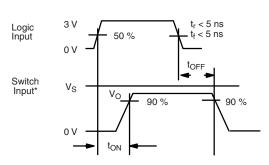
Vishay Siliconix

TEST CIRCUITS



C_L (includes fixture and stray capacitance)

 R_L $V_{O} = V_{S}$ $R_L + r_{DS(on)}$



Logic input waveform is inverted for switches that Note: have the opposite logic sense control



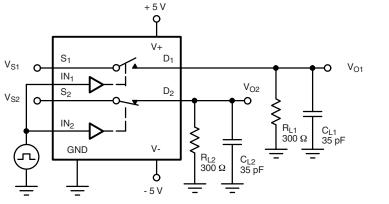
Logic Input

Switch

Output

Switch

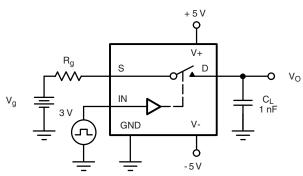
Output



3 V 50 % 0 V V_{S1} V₀₁ 90 % 0 V V_{S2} V_{O2} 90 % 0 V t_D t_D

C_L (includes fixture and stray capacitance)

Figure 2. Break-Before-Make (DG613A)



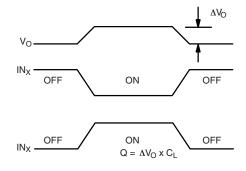


Figure 3. Charge Injection

TEST CIRCUITS

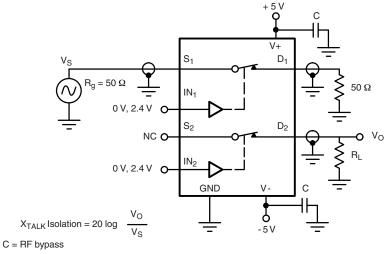
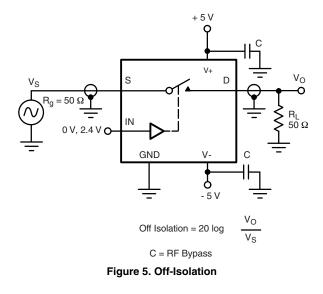


Figure 4. Crosstalk



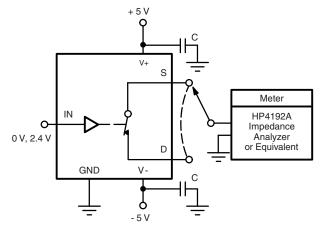


Figure 6. Source/Drain Capacitances

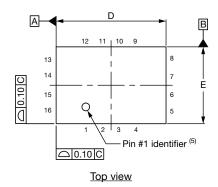
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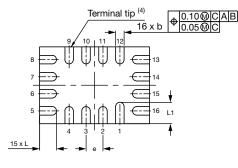
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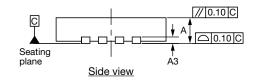


Thin miniQFN16 Case Outline





Bottom view



DIMENSIONS		MILLIMETERS (1)				
DIMENSIONS	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
А	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
е	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



SOIC (NARROW): 16-LEAD

JEDEC Part Number: MS-012



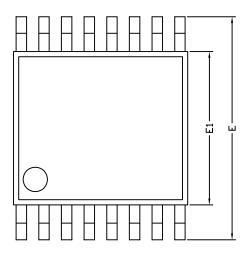




Package Information

Vishay Siliconix

TSSOP: 16-LEAD





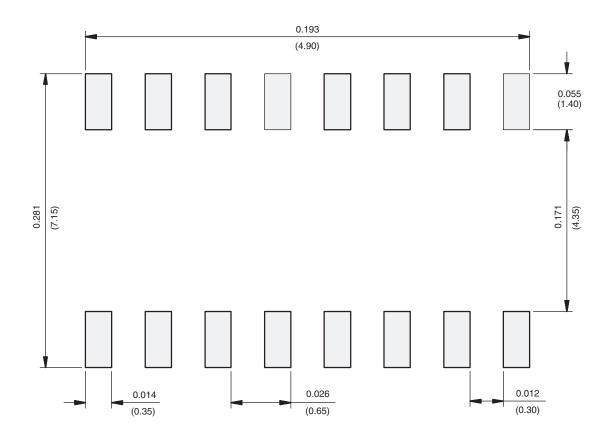
	C	IMENSIONS IN MILLIMETE	RS
Symbols	Min	Nom	Мах
A	-	1.10	1.20
A1	0.05	0.10	0.15
A2	-	1.00	1.05
В	0.22	0.28	0.38
С	-	0.127	-
D	4.90	5.00	5.10
E	6.10	6.40	6.70
E1	4.30	4.40	4.50
е	-	0.65	-
L	0.50	0.60	0.70
L1	0.90	1.00	1.10
у	-	-	0.10
θ1	0°	3°	6°
ECN: S-61920-Rev. D, 23 DWG: 5624	-Oct-06		



PAD Pattern

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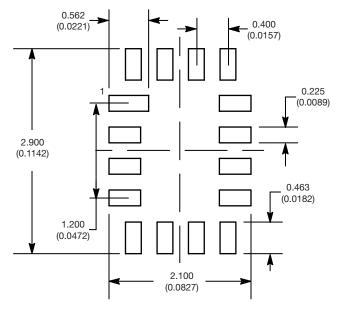
RECOMMENDED MINIMUM PAD FOR TSSOP-16



Recommended Minimum Pads Dimensions in inches (mm)



RECOMMENDED MINIMUM PADS FOR MINI QFN 16L



Mounting Footprint Dimensions in mm (inch)

Application Note 826

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RECOMMENDED MINIMUM PADS FOR SO-16



Recommended Minimum Pads Dimensions in Inches/(mm)

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