

Precision Monolithic Low-Voltage CMOS Analog Switches

DESCRIPTION

The DG417L, DG418L, DG419L are low voltage pin-for-pin compatible companion devices to the industry standard DG417, DG418, DG419 with improved performance.

Using BiCMOS wafer fabrication technology allows the DG417L, DG418L, DG419L to operate on single and dual supplies. Single supply voltage ranges from 3 V to 12 V while dual supply operation is recommended with \pm 3 V to \pm 6 V.

Combining high speed (t_{ON} : 28 ns), flat R_{ON} over the analog signal range (6 Ω), minimal insertion lose (up to 100 MHz), and excellent crosstalk and off-isolation performance (- 70 dB at 1 MHz), the DG417L, DG418L, DG419L are ideally suited for audio and video signal switching.

The DG417L and DG418L respond to opposite control logic as shown in the truth table. The DG419L has an SPDT configuration.

FEATURES

- 2.7 V- thru 12 V single supply or ± 3- thru ± 6 dual supply
- On-resistance R_{ON}: 14 Ω
- Fast switching t_{ON}: 28 ns - t_{OFF}: 13 ns
- TTL, CMOS compatible
- Low leakage: < 100 pA
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

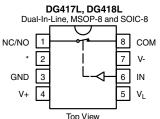
APPLICATIONS

- Precision automatic test equipment
- Precision data acquisition
- Communication systems
- Battery powered systems
- Computer peripherals
- SDSL, DSLAM
- Audio and video signal routing

BENEFITS

- Widest dynamic range
- Low signal errors and distortion
- Break-before-make switching action
- Simple interfacing

FUNCTIONAL BLOCK DIAGRAM AND PIN CONFIGURATION



TRUTH TABLE					
Logic	DG417L	DG418L			
0	ON	OFF			
1	OFF	ON			

ORDERING INFORMATION (DG417L, DG418L)

Temp. Range	Package	Part Number
		DG417LDY
		DG417LDY-E3
		DG417LDY-T1
	8-Pin Narrow SOIC	DG417LDY-T1-E3
	6-FILLINATION SOLO	DG418LDY
		DG418LDY-E3
		DG418LDY-T1
		DG418LDY-T1-E3
	8-Pin MSOP	DG417LDQ-T1-E3
	8-PIN MSOP	DG418LDQ-T1-E3

DG419L Dual-In-Line, MSOP-8 and SOIC-8 СОМ 8 NO 7 NC 2 v-6 GND 3 IN 5 4 V_{L} V+ Top View

TRUTH TABLE (DG419L)					
Logic	NC	NO			
0	ON	OFF			
1	OFF	ON			

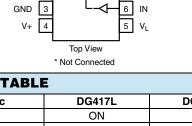
ORDERING INFORMATION (DG419L)							
Temp. Range Package Part Number							
		DG419LDY					
	8-Pin Narrow SOIC	DG419LDY-E3					
- 40 °C to 85 °C		DG419LDY-T1					
		DG419LDY-T1-E3					
	8-Pin MSOP	DG419LDQ-T1-E3					

* Pb containing terminations are not RoHS compliant, exemptions may apply

Document Number: 71763 For technical questions, contact: <u>pmostechsupport@vishay.com</u> S13-1856-Rev. G, 19-Aug-13

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Available





ABSOLUTE MAXIMUM RATINGS

Parameter		Limit	Unit
Parameter		Limit	Unit
V+ to V-		- 0.3 to 13	
GND to V-		7	
VL		(GND - 0.3) to (V+) + 0.3	V
I _N , COM, NC, NO ^a		- 0.3 to (V+ + 0.3) or 30 mA, whichever occurs first	
Continuous Current (Any Terminal)		30	m 4
Peak Current, S or D (Pulsed 1 ms, 1	0 % Duty Cycle)	100	— mA
Storage Temperature	(AK, DQ, DY Suffix)	- 65 to 150	°C
	8-Pin MSOP ^c	320	
Power Dissipation (Packages) ^b	8-Pin SOIC ^c	400	mW
	8-Pin CerDIP ^d	600	

Notes:

a. Signals on NC, NO, COM, or IN 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 6.5 mW/°C above 25 °C. d. Derate 12 mW/°C above 75 °C.

SPECIFICATIONS (Single Supply 12 V)									
		Test Conditions Unless Otherwise Specified V+ = 12 V, V- = 0 V				x Limits o 125 °C			
Parameter	Symbol	$V_{\rm L} = 5 \text{ V}, V_{\rm IN} = 2.4 \text{ V}, 0.8 \text{ V}^{\rm f}$	Temp. ^b	Typ. ^c	Min. ^d	Max. ^d	Min. ^d	Max. ^d	Unit
Analog Switch	<u> </u>					1	<u></u>	<u> </u>	
Analog Signal Range ^e	V _{ANALOG}		Full		0	12	0	12	V
On-Resistance	R _{ON}	V+ = 10.8 V, V- = 0 V I _{NO} , I _{NC} = 5 mA, V _{COM} = 2 V / 9 V	Room Full	13		20 32		20 23.5	Ω
Switch Off Leakage Current	I _{NO(off)} I _{NC(off)}	V _{COM} = 1 V / 11 V	Room Full		- 1 - 15	1 15	- 1 - 10	1 10	
Switch On Leakage Guirent	I _{COM(off)}	$V_{\rm NO}, V_{\rm NC} = 11 \text{ V} / 1 \text{ V}$	Room Full		- 1 - 15	1 15	- 1 - 10	1 10	nA
Channel On Leakage Current	I _{COM(on)}	V_{NO} , $V_{NC} = V_{COM} = 11 \text{ V} / 1 \text{ V}$	Room Full		- 1 - 15	1 15	- 1 - 10	1 10	
Digital Control									
Input Current	$I_{\rm INL}$ or $I_{\rm INH}$		Full	0.01	- 1.5	1.5	- 1	1	μΑ
Dynamic Characteristics									
Turn-On Time	t _{ON}	R _L = 300 Ω, C _L = 35 pF	Room Full	28		43 50		43 46	
Turn-Off Time	t _{OFF}	V_{NO} , V_{NC} = 5 V, see figure 2	Room Full	13		31 35		31 32	ns
Break-Before-Make Time Delay	t _D	DG419L only, V _{NC} , V _{NO} = 5 V R _L = 300 Ω, C _L = 35 pF	Room	13					
Charge Injection ^e	Q _{INJ}	$V_{g} = 0 V, R_{g} = 0 \Omega, C_{L} = 1 nF$	Room	1					рС
Off-Isolation ^e	OIRR	R _L = 50 Ω, C _L = 5 pF , f = 1 MHz	Room	- 71					dB
Channel-to-Channel Crosstalk ^e	X _{TALK}	$H_{L} = 50.52, O_{L} = 5.000, T = 1.00002$	Room	- 71					uБ
Source Off Capacitance ^e	C _{NO(off)} C _{NC(off)}	V _{IN} = 0 or V+, f = 1 MHz	Room	5					pF
Channel-On Capacitance ^e	C _{ON}		Room	15					-
Power Supplies									
Positive Supply Current	l+		Room Full	0.02		1 7.5		1 5	
Negative Supply Current	l-	V _{IN} = 0 or V _L	Room Full	- 0.002	- 1 - 7.5		- 1 - 5		μA
Logic Supply Current	ΙL		Room Full	0.002		1 7.5		1 5	μΑ
Ground Current	I _{GND}		Room Full	- 0.002	- 1 - 7.5		- 1 - 5		

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SPECIFICATIONS (Dual Supply	± 5 V)							
		Test Conditions Unless Otherwise Specified V+ = 5 V, V- = - 5 V				x Limits o 125 °C			
Parameter	Symbol	$V_{L} = 5 V, V_{IN} = 2.4 V, 0.8 V^{f}$	Temp. ^b	Typ. ^c	Min. ^d	Max. ^d	Min. ^d	Max. ^d	Unit
Analog Switch	1 -		<u> </u>		I	<u></u>	<u> </u>		
Analog Signal Range ^e	V _{ANALOG}		Full		- 5	5	- 5	5	V
On-Resistance	R _{ON}	V+ = 5 V, V- = - 5 V I _{NO} , I _{NC} = 5 mA, V _{COM} = ± 3.5 V	Room Full	14		18.5 30		18.5 21	Ω
Switch Off	I _{NO(off)} I _{NC(off)}	V+ = 5.5 , V- = - 5.5 V V _{COM} = ± 4.5 V	Room Full		- 1 - 15	1 15	- 1 - 10	1 10	
Leakage Current ^a	I _{COM(off)}	V_{NO} , $V_{NC} = \pm 4.5$ V	Room Full		- 1 - 15	1 15	- 1 - 10	1 10	nA
Channel On Leakage Current ^a	I _{COM(on)}	V+ = 5.5 V, V- = - 5.5 V V _{NO} , V _{NC} = V _{COM} = \pm 4.5 V	Room Full		- 1 - 15	1 15	- 1 - 10	1 10	
Digital Control						-	-		
Input Current ^a	${\rm I}_{\rm INL}$ or ${\rm I}_{\rm INH}$		Full	0.05	- 1.5	1.5	- 1	1	μA
Dynamic Characteristics									
Turn-On Time ^e	t _{ON}	R _L = 300 Ω, C _L = 35 pF	Room Full	30		41 50		41 44	
Turn-Off Time ^e	t _{OFF}	V_{NO} , V_{NC} = ± 3.5 V, see figure 2	Room Full	16		32 36		32 33	ns
Break-Before-Make Time Delay ^e	t _D	DG419L only, V _{NO} , V _{NC} = 3.5 V R _L = 300 Ω , C _L = 35 pF	Room	10					
TransitionTime	t _{TRANS}	R_L = 300 Ω, C_L = 35 pF V _{S1} = ± 3.5 V, V _{S2} = ± 3.5 V	Room	33		47		47	
Charge Injection ^e	Q _{INJ}	$V_{g} = 0 V, R_{g} = 0 \Omega, C_{L} = 1 nF$	Room	3					рС
Off-Isolation ^e	OIRR		Room	- 71					
Channel-to-Channel Crosstalk ^e	X _{TALK}	R_L = 50 Ω, C_L = 5 pF , f = 1 MHz	Room	- 76					dB
Source Off Capacitance ^e	C _{NO(off)} C _{NC(off)}	f = 1 MHz	Room	5.2					pF
Channel-On Capacitance ^e	C _{ON}		Room	15					
Power Supplies				·	·				
Positive Supply Current ^e	l+		Room Full	0.03		1 7.5		1 5	
Negative Supply Current ^e	I-	$V_{IN} = 0$ or V_{L}	Room Full	- 0.002	- 1 - 7.5		- 1 - 5		μA
Logic Supply Current ^e	ΙL		Room Full	0.002		1 7.5		1 5	μΛ
Ground Current ^e	I _{GND}		Room Full	- 0.002	- 1 - 7.5		- 1 - 5		



SPECIFICATIONS (S	ingle Supp	ly 5 V)							
		Test Conditions Unless Otherwise Specified				x Limits o 125 °C		x Limits to 85 °C	
Parameter	Symbol	V+ = 5 V, V- = 0 V $V_L = 5 V, V_{IN} = 2.4 V, 0.8 V^{f}$	Temp. ^b	Typ. ^c	Min. ^d	Max. ^d	Min. ^d	Max. ^d	Unit
Analog Switch	<u> </u>	L	<u> </u>		<u></u>	<u> </u>		I	
Analog Signal Range ^e	V _{ANALOG}		Full			5		5	V
On-Resistance ^e	R _{ON}	V+ = 4.5 V, I_{NO} , I_{NC} = 5 mA V _{COM} = 1 V, 3.5 V	Room Full	26		36.5 50		36.5 40.5	Ω
Dynamic Characteristics	•				•				
Turn-On Time ^e	t _{ON}	R _L = 300 Ω, C _L = 35 pF	Room Full	37		49 60		49 54	
Turn-Off Time ^e	t _{OFF}	V_{NO} , V_{NC} = 3.5 V, see figure 2	Room Full	16		31 35		31 32	ns
Break-Before-Make Time Delay ^e	t _D	DG419L only, V _{NO} , V _{NC} = 3.5 V R _L = 300 Ω , C _L = 35 pF	Room	19					
Charge Injection ^e	Q _{INJ}	$V_{g} = 0 V, R_{g} = 0 \Omega, C_{L} = 1 nF$	Room	0.4					рС
Power Supplies									
Positive Supply Current ^e	I+		Room Full	0.02		1 7.5		1 5	
Negative Supply Current ^e	I-	V _{IN} = 0 or V _L	Room Full	- 0.002	- 1 - 7.5		- 1 - 5		μA
Logic Supply Current ^e	۱ _L		Room Full	0.002		1 7.5		1 5	μΑ
Ground Current ^e	I _{GND}		Room Full	- 0.002	- 1 - 7.5		- 1 - 5		



5

SPECIFICATIONS (S	Single Sup	ply 3 V)							
		Test Conditions Unless Otherwise Specified				x Limits o 125 °C			
Parameter	Symbol	V + = 3 V, V - = 0 V $V_L = 3 V, V_{IN} = 2 V, 0.4 V^{f}$	Temp. ^b	Typ. ^c	Min. ^d	Max. ^d	Min. ^d	Max. ^d	Unit
Analog Switch	•								
Analog Signal Range ^e	V _{ANALOG}		Full		0	3	0	3	V
On-Resistance	R _{ON}	V+ = 2.7 V, V- = 0 V I _{NO} , I _{NC} = 5 mA, V _{COM} = 0.5 V, 2.2 V	Room Full	47		70 80		70 75	Ω
Switch Off	I _{NO(off)} I _{NC(off)}	V+ = 3.3 , V- = 0 V	Room Full		- 1 - 15	1 15	- 1 - 10	1 10	
Leakage Current ^a	I _{COM(off)}	V _{COM} = 1, 2 V, V _{NO} , V _{NC} = 2, 1 V	Room Full		- 1 - 15	1 15	- 1 - 10	1 10	nA
Channel On Leakage Current ^a	I _{COM(on)}	V+ = 3.3 V, V- = 0 V V _{NO} , V _{NC} = V _{COM} = 1 V, 2 V	Room Full		- 1 - 15	1 15	- 1 - 10	1 10	
Digital Control	•				•	•	•		
Input Current ^a	$I_{\rm INL}$ or $I_{\rm INH}$		Full	0.005	- 1.5	1.5	- 1	1	μA
Dynamic Characteristics									
Turn-On Time	t _{ON}	R _L = 300 Ω, C _L = 35 pF	Room Full	65		75 95		75 85	
Turn-Off Time	t _{OFF}	V_{NO} , V_{NC} = 1.5 V, see figure 2	Room Full	26		41 45		41 43	ns
Break-Before-Make Time Delay	t _D	DG419L only, V _{NO} , V _{NC} = 1.5 V R _L = 300 Ω , C _L = 35 pF	Room	33					
Charge Injection ^e	Q _{INJ}	$V_{g} = 0 \text{ V}, \text{ R}_{g} = 0 \Omega, \text{ C}_{L} = 10 \text{ nF}$	Room	1					рС
Off-Isolation ^e	OIRR		Room	- 71					
Channel-to-Channel Crosstalk ^e	X _{TALK}	R_L = 50 Ω, C_L = 5 pF , f = 1 MHz	Room	- 77					dB
Source Off Capacitance ^e	C _{NO(off)} C _{NC(off)}	f = 1 MHz	Room	5.6					pF
Channel On Capacitance ^e	C _{D(on)}		Room	16					

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. 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.

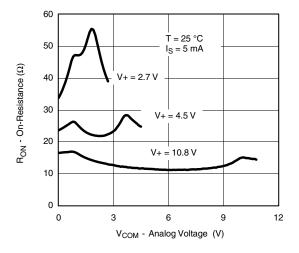
e. Guaranteed by design, not subject to production test.

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

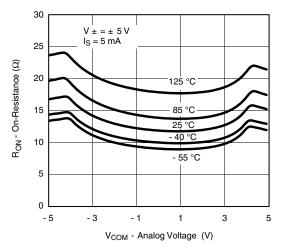
Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure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



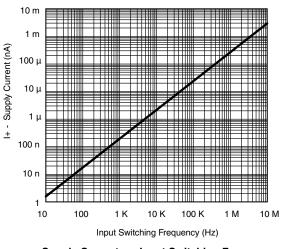
TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)



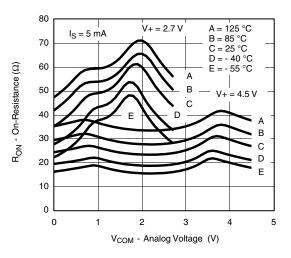
 $\rm R_{ON}$ vs. $\rm V_{COM}$ and Supply Voltage



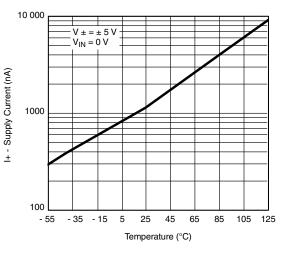
R_{ON} vs. Analog Voltage and Temperature



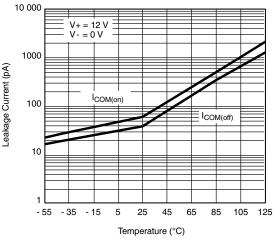
Supply Current vs. Input Switching Frequency



R_{ON} vs. Analog Voltage and Temperature



Supply Current vs. Temperature



Leakage Current vs. Temperature

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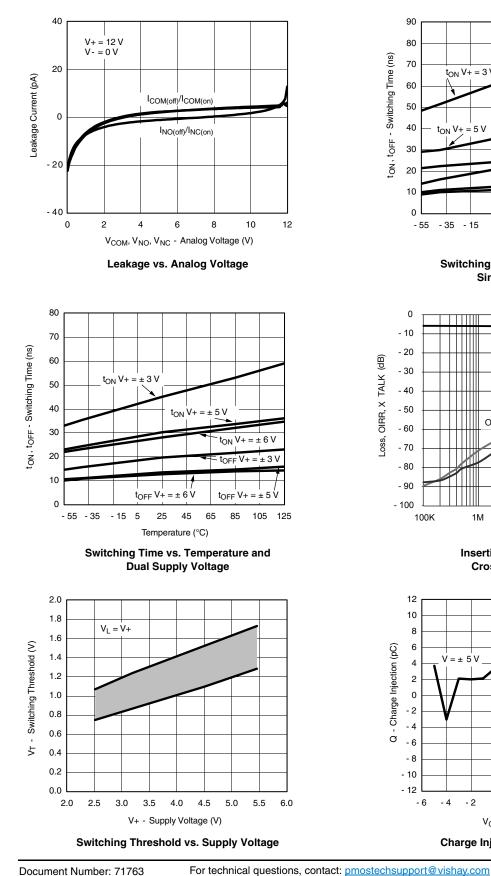
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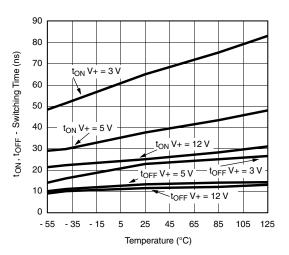


DG417L, DG418L, DG419L

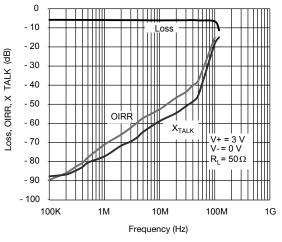
Vishay Siliconix

TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)

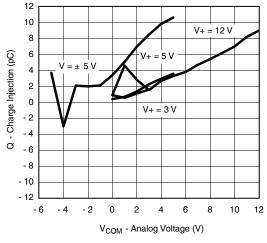




Switching Time vs. Temperature and Single Supply Voltage

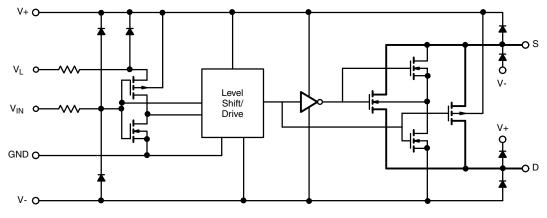


Insertion Loss, Off -Isolation Crosstalk vs. Frequency



Charge Injection vs. Analog Voltage)

SCHEMATIC DIAGRAM (Typical Channel)



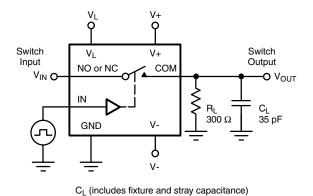


Logic Input

VINH

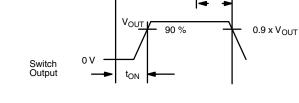
VINL

TEST CIRCUITS



 $V_{OUT} = V_{IN}$ -

R_L R_L + R_{ON}



50

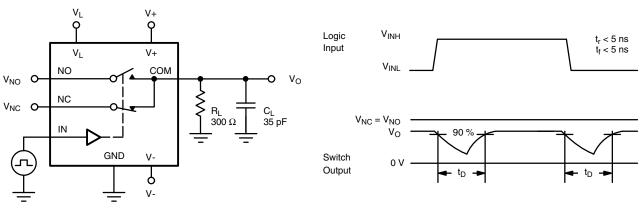
t_r < 5 ns

t_f < 5 ns

torr

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





C_L (includes fixture and stray capacitance)

Figure 3. Break-Before-Make (DG419L)

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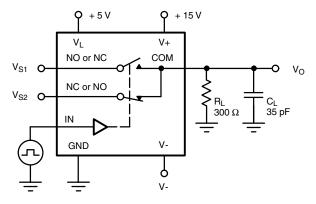


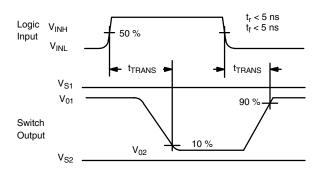


DG417L, DG418L, DG419L

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TEST CIRCUITS

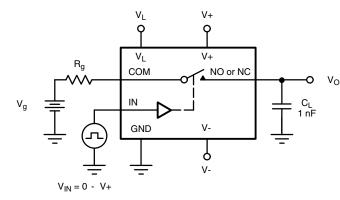


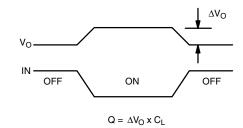


 C_{L} (includes fixture and stray capacitance)

$$V_{\rm O} = V_{\rm S} \qquad \frac{R_{\rm L}}{R_{\rm L} + R_{\rm ON}}$$







IN dependent on switch configuration Input polarity determined by sense of switch.



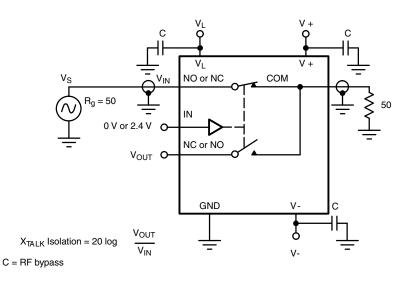


Figure 6. Crosstalk (DG419L)

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TEST CIRCUITS

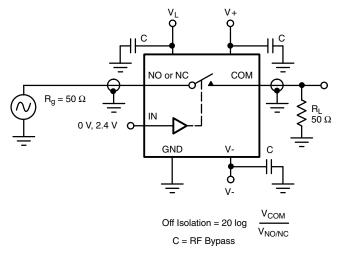


Figure 7. Off Isolation

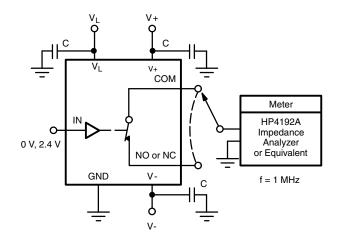


Figure 8. Source/Drain Capacitances

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/ppg?71763.



Package Information

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SOIC (NARROW): 8-LEAD JEDEC Part Number: MS-012





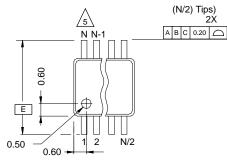
	MILLIM	IETERS	INC	HES				
DIM	Min	Мах	Min	Max				
A	1.35	1.75	0.053	0.069				
A ₁	0.10	0.20	0.004	0.008				
В	0.35	0.51	0.014	0.020				
С	0.19	0.25	0.0075	0.010				
D	4.80	5.00	0.189	0.196				
E	3.80	4.00	0.150	0.157				
е	1.27	BSC	0.050	BSC				
н	5.80	6.20	0.228	0.244				
h	0.25	0.50	0.010	0.020				
L	0.50	0.93	0.020	0.037				
q	0°	8°	0°	8°				
S	0.44	0.64	0.018	0.026				
ECN: C-0652 DWG: 5498	ECN: C-06527-Rev. I, 11-Sep-06							



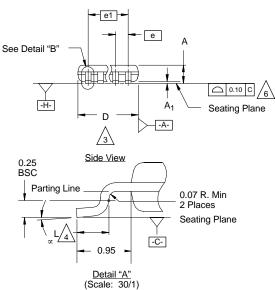
Package Information Vishay Siliconix

MSOP: 8-LEADS

JEDEC Part Number: MO-187, (Variation AA and BA)







NOTES:

/4.\ /5.\

1. Die thickness allowable is 0.203 ± 0.0127 .

2 Dimensioning and tolerances per ANSI.Y14.5M-1994.

- /3.\ Dimensions "D" and "E1" do not include mold flash or protrusions, and are measured at Datum plane -H- , mold flash or protrusions shall not exceed 0.15 mm per side.
 - Dimension is the length of terminal for soldering to a substrate.

Terminal positions are shown for reference only.

- <u>/6</u>. Formed leads shall be planar with respect to one another within 0.10 mm at seating plane.
- /7.\ The lead width dimension does not include Dambar protrusion. Allowable Dambar protrusion shall be 0.08 mm total in excess of the lead width dimension at maximum material condition. Dambar cannot be located on the lower radius or the lead foot. Minimum space between protrusions and an adjacent lead to be 0.14 mm. See detail "B" and Section "C-C".

/8.\ Section "C-C" to be determined at 0.10 mm to 0.25 mm from the lead tip.

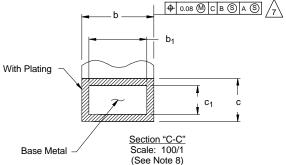
Controlling dimension: millimeters. 9.

10. This part is compliant with JEDEC registration MO-187, variation AA and BA.

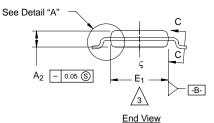
/11. Datums -A- and -B- to be determined Datum plane -H-.

/12 Exposed pad area in bottom side is the same as teh leadframe pad size.









N = 8L

	MI	MILLIMETERS				
Dim	Min	Nom	Max	Note		
Α	-	-	1.10			
A ₁	0.05	0.10	0.15			
A ₂	0.75	0.85	0.95			
b	0.25	-	0.38	8		
b ₁	0.25	0.30	0.33	8		
С	0.13	-	0.23			
c ₁	0.13	0.15	0.18			
D		3.00 BSC		3		
Е		4.90 BSC				
E ₁	2.90	3.00	3.10	3		
е		0.65 BSC				
e ₁		1.95 BSC				
L	0.40	0.55	0.70	4		
Ν		8		5		
α	0°	4°	6°			
ECN: T-02 DWG: 58	2080—Rev. C 67	, 15-Jul-02				

Application Note 826

Vishay Siliconix



RECOMMENDED MINIMUM PADS FOR SO-8



Recommended Minimum Pads Dimensions in Inches/(mm)

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