

MC74LVXT4053

Analog Multiplexer/ Demultiplexer High-Performance Silicon-Gate CMOS

The MC74LVXT4053 utilizes silicon-gate CMOS technology to achieve fast propagation delays, low ON resistances, and low OFF leakage currents. This analog multiplexer/demultiplexer controls analog voltages that may vary across the complete power supply range (from V_{CC} to V_{EE}).

The LVXT4053 is similar in pinout to the LVX8053, the HC4053A, and the metal-gate MC14053B. The Channel-Select inputs determine which one of the Analog Inputs/Outputs is to be connected, by means of an analog switch, to the Common Output/Input. When the Enable pin is HIGH, all analog switches are turned off.

The Channel-Select and Enable inputs are compatible with standard TTL levels.

This device has been designed so the ON resistance (R_{ON}) is more linear over input voltage than the R_{ON} of metal-gate CMOS analog switches and High-Speed CMOS analog switches.

Features

- Select Pins Compatible with TTL Levels
- Fast Switching and Propagation Speeds
- Low Crosstalk Between Switches
- Analog Power Supply Range ($V_{CC} - V_{EE}$) = -3.0 V to +3.0 V
- Digital (Control) Power Supply Range ($V_{CC} - GND$) = 2.5 to 6.0 V
- Improved Linearity and Lower ON Resistance Than Metal-Gate, HSL, or VHC Counterparts
- Low Noise
- Designed to Operate on a Single Supply with $V_{EE} = GND$, or Using Split Supplies up to ± 3.0 V
- Break-Before-Make Circuitry
- These Devices are Pb-Free and are RoHS Compliant



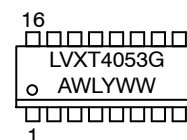
ON Semiconductor®

<http://onsemi.com>

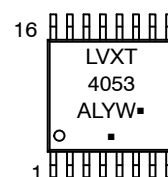
MARKING DIAGRAMS



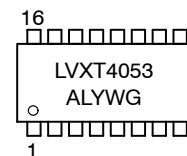
SOIC-16
D SUFFIX
CASE 751B



TSSOP-16
DT SUFFIX
CASE 948F



SOEIAJ-16
M SUFFIX
CASE 966



LVXT4053 = Specific Device Code
A = Assembly Location
WL, L = Wafer Lot
Y = Year
WW, W = Work Week
G or ■ = Pb-Free Package

(Note: Microdot may be in either location)

ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 2 of this data sheet.

MC74LVXT4053

FUNCTION TABLE

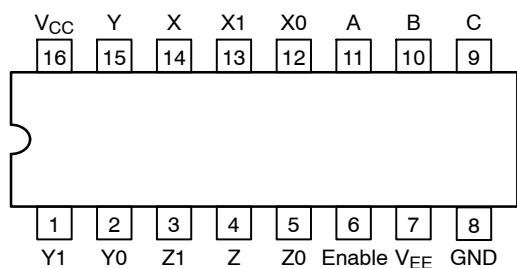
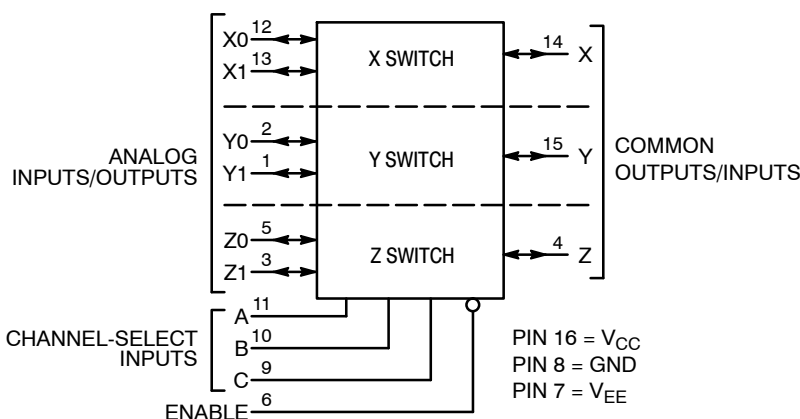


Figure 1. Pin Connection and Marking Diagram
(Top View)

Control Inputs						
Enable	Select					
	C	B	A	ON Channels		
L	L	L	L	Z0	Y0	X0
L	L	L	H	Z0	Y0	X1
L	L	H	L	Z0	Y1	X0
L	L	H	H	Z0	Y1	X1
L	H	L	L	Z1	Y0	X0
L	H	L	H	Z1	Y0	X1
L	H	H	L	Z1	Y1	X0
L	H	H	H	Z1	Y1	X1
H	X	X	X	NONE		

X = Don't Care



NOTE: This device allows independent control of each switch. Channel-Select Input A controls the X-Switch, Input B controls the Y-Switch and Input C controls the Z-Switch.

Figure 2. Logic Diagram
Triple Single-Pole, Double-Position Plus Common Off

ORDERING INFORMATION

Device	Package	Shipping [†]
MC74LVXT4053DG	SOIC-16 (Pb-Free)	48 Units / Rail
MC74LVXT4053DR2G	SOIC-16 (Pb-Free)	2500 Tape & Reel
MC74LVXT4053DTG	TSSOP-16*	96 Units / Rail
MC74LVXT4053DTR2G	TSSOP-16*	2500 Tape & Reel
MC74LVXT4053MG	SOEIAJ-16 (Pb-Free)	50 Units / Rail
MC74LVXT4053MELG	SOEIAJ-16 (Pb-Free)	2000 Tape & Reel

[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

*This package is inherently Pb-Free.

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MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V_{EE}	Negative DC Supply Voltage (Referenced to GND)	-7.0 to $+0.5$	V
V_{CC}	Positive DC Supply Voltage (Referenced to GND) (Referenced to V_{EE})	-0.5 to $+7.0$ -0.5 to $+7.0$	V
V_{IS}	Analog Input Voltage	$V_{EE} - 0.5$ to $V_{CC} + 0.5$	V
V_{IN}	Digital Input Voltage (Referenced to GND)	-0.5 to 7.0	V
I	DC Current, Into or Out of Any Pin	± 20	mA
T_{STG}	Storage Temperature Range	-65 to $+150$	$^{\circ}\text{C}$
T_L	Lead Temperature, 1 mm from Case for 10 Seconds	260	$^{\circ}\text{C}$
T_J	Junction Temperature under Bias	$+150$	$^{\circ}\text{C}$
θ_{JA}	Thermal Resistance SOIC TSSOP	143 164	$^{\circ}\text{C}/\text{W}$
P_D	Power Dissipation in Still Air, SOIC TSSOP	500 450	mW
MSL	Moisture Sensitivity	Level 1	
F_R	Flammability Rating Oxygen Index: 30% – 35%	UL 94–V0 @ 0.125 in	
V_{ESD}	ESD Withstand Voltage Human Body Model (Note 1) Machine Model (Note 2) Charged Device Model (Note 3)	> 2000 > 200 > 1000	V
$I_{LATCHUP}$	Latchup Performance Above V_{CC} and Below GND at 125°C (Note 4)	± 300	mA

Maximum ratings are those values beyond which device damage can occur. Maximum ratings applied to the device are individual stress limit values (not normal operating conditions) and are not valid simultaneously. If these limits are exceeded, device functional operation is not implied, damage may occur and reliability may be affected.

1. Tested to EIA/JESD22–A114–A.
2. Tested to EIA/JESD22–A115–A.
3. Tested to JESD22–C101–A.
4. Tested to EIA/JESD78.

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Min	Max	Unit
V_{EE}	Negative DC Supply Voltage (Referenced to GND)	-6.0	GND	V
V_{CC}	Positive DC Supply Voltage (Referenced to GND) (Referenced to V_{EE})	2.5 2.5	6.0 6.0	V
V_{IS}	Analog Input Voltage	V_{EE}	V_{CC}	V
V_{IN}	Digital Input Voltage (Note 5) (Referenced to GND)	0	6.0	V
T_A	Operating Temperature Range, All Package Types	-55	125	$^{\circ}\text{C}$
t_r, t_f	Input Rise/Fall Time (Channel Select or Enable Inputs) $V_{CC} = 3.0\text{ V} \pm 0.3\text{ V}$ $V_{CC} = 5.0\text{ V} \pm 0.5\text{ V}$	0 0	100 20	ns/V

5. Unused inputs may not be left open. All inputs must be tied to a high–logic voltage level or a low–logic input voltage level.

DEVICE JUNCTION TEMPERATURE VERSUS TIME TO 0.1% BOND FAILURES

Junction Temperature $^{\circ}\text{C}$	Time, Hours	Time, Years
80	1,032,200	117.8
90	419,300	47.9
100	178,700	20.4
110	79,600	9.4
120	37,000	4.2
130	17,800	2.0
140	8,900	1.0

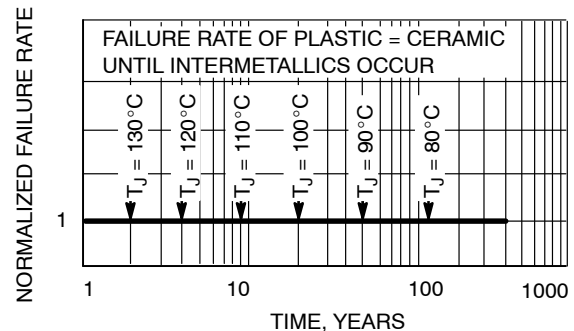


Figure 3. Failure Rate vs. Time Junction Temperature

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DC CHARACTERISTICS – Digital Section (Voltages Referenced to GND)

Symbol	Parameter	Condition	V _{CC} V	Guaranteed Limit			Unit
				– 55 to 25°C	≤ 85°C	≤ 125°C	
V _{IH}	Minimum High-Level Input Voltage, Channel-Select or Enable Inputs		3.0 4.5 5.5	2.0 2.0 2.0	2.0 2.0 2.0	2.0 2.0 2.0	V
V _{IL}	Maximum Low-Level Input Voltage, Channel-Select or Enable Inputs		3.0 4.5 5.5	0.5 0.8 0.8	0.5 0.8 0.8	0.5 0.8 0.8	V
I _{IN}	Maximum Input Leakage Current, Channel-Select or Enable Inputs	V _{IN} = 6.0 or GND	0 V to 6.0 V	± 0.1	± 1.0	± 1.0	μA
I _{CC}	Maximum Quiescent Supply Current (per Package)	Channel Select, Enable and V _{IS} = V _{CC} or GND	6.0	4.0	40	80	μA

DC ELECTRICAL CHARACTERISTICS – Analog Section

Symbol	Parameter	Test Conditions	V _{CC} V	V _{EE} V	Guaranteed Limit			Unit
					– 55 to 25°C	≤ 85°C	≤ 125°C	
R _{ON}	Maximum “ON” Resistance	V _{IN} = V _{IL} or V _{IH} V _{IS} = ½ (V _{CC} – V _{EE}) I _S = 2.0 mA (Figure 4)	3.0 4.5 3.0	0 0 – 3.0	86 37 26	108 46 33	120 55 37	Ω
ΔR _{ON}	Maximum Difference in “ON” Resistance Between Any Two Channels in the Same Package	V _{IN} = V _{IL} or V _{IH} V _{IS} = ½ (V _{CC} – V _{EE}) I _S = 2.0 mA	3.0 4.5 3.0	0 0 – 3.0	15 13 10	20 18 15	20 18 15	Ω
I _{off}	Maximum Off-Channel Leakage Current, Any One Channel	V _{in} = V _{IL} or V _{IH} ; V _{IO} = V _{CC} or GND; Switch Off (Figure 3)	5.5 +3.0	0 – 3.0	0.1 0.1	0.5 0.5	1.0 1.0	μA
	Maximum Off-Channel Leakage Current, Common Channel	V _{in} = V _{IL} or V _{IH} ; V _{IO} = V _{CC} or GND; Switch Off (Figure 4)	5.5 +3.0	0 – 3.0	0.2 0.2	2.0 2.0	4.0 4.0	
I _{on}	Maximum On-Channel Leakage Current, Channel-to-Channel	V _{in} = V _{IL} or V _{IH} ; Switch-to-Switch = V _{CC} or GND; (Figure 5)	5.5 +3.0	0 – 3.0	0.2 0.2	2.0 2.0	4.0 4.0	μA

AC CHARACTERISTICS (Input t_r = t_f = 3 ns)

Symbol	Parameter	Test Conditions	V _{CC} V	V _{EE} V	Guaranteed Limit				Unit
					– 55 to 25°C		≤ 85°C	≤ 125°C	
					Min	Typ*			
t _{BBM}	Minimum Break–Before–Make Time	V _{IN} = V _{IL} or V _{IH} V _{IS} = V _{CC} R _L = 300 Ω, C _L = 35 pF (Figures 12 and 13)	3.0 4.5 3.0	0.0 0.0 –3.0	1.0 1.0 1.0	6.5 5.0 3.5	– – –	– – –	ns

*Typical Characteristics are at 25°C.

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AC CHARACTERISTICS ($C_L = 50$ pF, Input $t_r = t_f = 3$ ns)

Symbol	Parameter	V _{CC} V	V _{EE} V	Guaranteed Limit							Unit
				− 55 to 25°C			≤ 85°C		≤ 125°C		
				Min	Typ	Max	Min	Max	Min	Max	
t _{PLH} , t _{PHL}	Maximum Propagation Delay, Channel–Select to Analog Output (Figures 16 and 17)	2.5	0			40		45		50	ns
		3.0	0			28		30		35	
		4.5	0			23		25		30	
		3.0	− 3.0			23		25		28	
t _{PLZ} , t _{PHZ}	Maximum Propagation Delay, Enable to Analog Output (Figures 14 and 15)	2.5	0			40		45		50	ns
		3.0	0			28		30		35	
		4.5	0			23		25		30	
		3.0	− 3.0			23		25		28	
t _{PZL} , t _{PZH}	Maximum Propagation Delay, Enable to Analog Output (Figures 14 and 15)	2.5	0			40		45		50	ns
		3.0	0			28		30		35	
		4.5	0			23		25		30	
		3.0	− 3.0			23		25		28	

		Typical @ 25°C, V _{CC} = 5.0 V, V _{EE} = 0V	
C _{PD}	Power Dissipation Capacitance (Figure 18) (Note 6)	45	pF
C _{IN}	Maximum Input Capacitance, Channel–Select or Enable Inputs	10	pF
C _{I/O}	Maximum Capacitance (All Switches Off) Analog I/O Common O/I Feedthrough	10	pF
		10	
		1.0	

6. Used to determine the no-load dynamic power consumption: $P_D = C_{PD} V_{CC}^2 f + I_{CC} V_{CC}$.

ADDITIONAL APPLICATION CHARACTERISTICS (GND = 0 V)

Symbol	Parameter	Condition	V_{CC} V	V_{EE} V	Typ	Unit
					25°C	
BW	Maximum On–Channel Bandwidth or Minimum Frequency Response	$V_{IS} = \frac{1}{2} (V_{CC} - V_{EE})$ Ref and Test Attn = 10 dB Source Amplitude = 0 dB (Figure 7)	3.0	0.0	80	MHz
			4.5	0.0	80	
			6.0	0.0	80	
			3.0	–3.0	80	
V_{ISO}	Off–Channel Feedthrough Isolation	$f = 1$ MHz; $V_{IS} = \frac{1}{2} (V_{CC} - V_{EE})$ Adjust Network Analyzer output to 10 dBm on each output from the power splitter. (Figures 8 and 9)	3.0	0.0	–70	dB
			4.5	0.0	–70	
			6.0	0.0	–70	
			3.0	–3.0	–70	
V_{ONL}	Maximum Feedthrough On Loss	$V_{IS} = \frac{1}{2} (V_{CC} - V_{EE})$ Adjust Network Analyzer output to 10 dBm on each output from the power splitter. (Figure 11)	3.0	0.0	–2	dB
			4.5	0.0	–2	
			6.0	0.0	–2	
			3.0	–3.0	–2	
Q	Charge Injection	$V_{IN} = V_{CC}$ to V_{EE} , $f_{IS} = 1$ kHz, $t_r = t_f = 3$ ns $R_{IS} = 0$ Ω , $C_L = 1000$ pF, $Q = C_L \cdot \Delta V_{OUT}$ (Figure 10)	5.0	0.0	9.0	pC
			3.0	–3.0	12	
THD	Total Harmonic Distortion THD + Noise	$f_{IS} = 1$ MHz, $R_L = 10$ K Ω , $C_L = 50$ pF, $V_{IS} = 5.0$ V _{PP} sine wave $V_{IS} = 6.0$ V _{PP} sine wave (Figure 19)	6.0	0.0	0.10	%
			3.0	–3.0	0.05	

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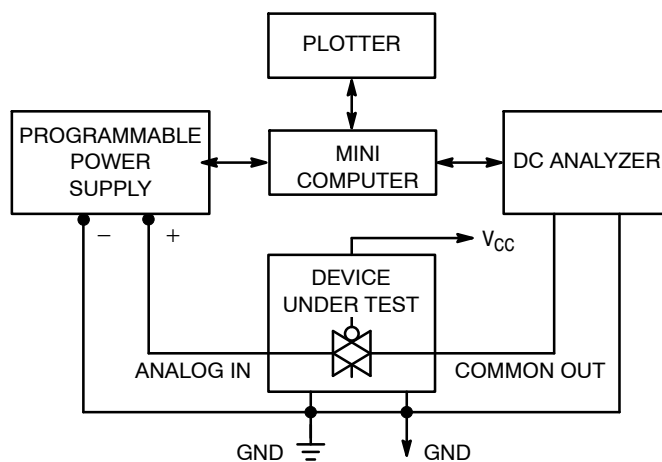


Figure 4. On Resistance, Test Set-Up

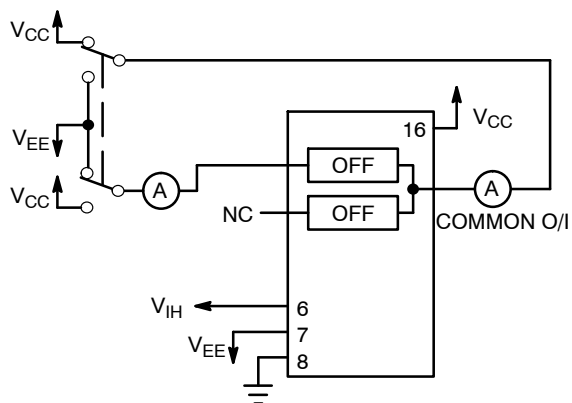


Figure 5. Maximum Off Channel Leakage Current, Any One Channel, Test Set-Up

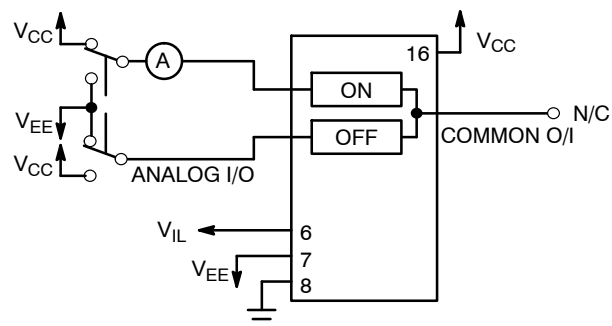


Figure 6. Maximum On Channel Leakage Current, Channel to Channel, Test Set-Up

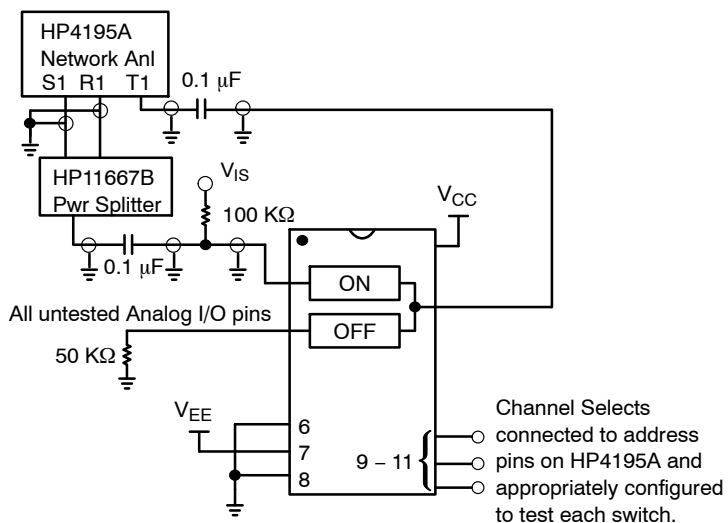


Figure 7. Maximum On Channel Bandwidth, Test Set-Up

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Config = Network
Format = T/R (dB)
CAL = Trans Cal
Display = Rectan X - A + B
Scale Ref = Auto Scale
View = Off, Off, Off
Trig = Cont Mode
Source Amplitude = +13 dB
Reference Attenuation = 20 dB
Test Attenuation = 0 dB

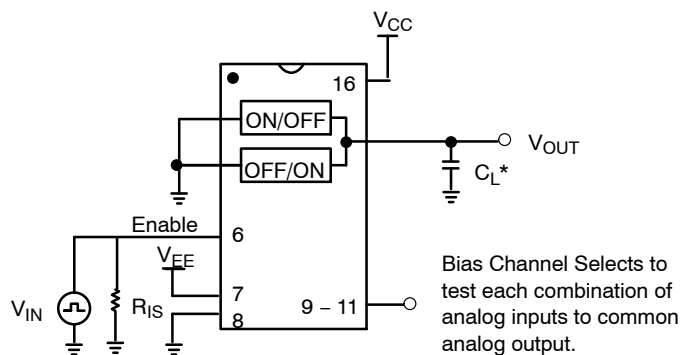
$$V_{ISO}(\text{dB}) = 20 \log (V_{T1}/V_{R1})$$

Figure 8. Maximum Off Channel Feedthrough Isolation, Test Set-Up



Figure 9. Maximum Common-Channel Feedthrough Isolation, Test Set-Up

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*Includes all probe and jig capacitance.

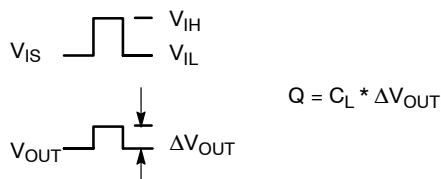


Figure 10. Charge Injection, Test Set-Up

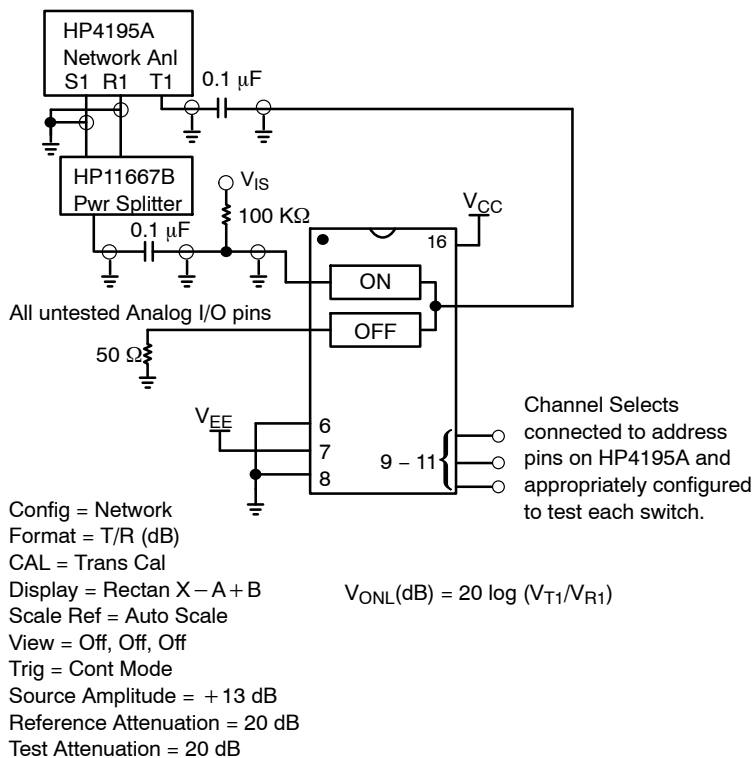


Figure 11. Maximum On Channel Feedthrough On Loss, Test Set-Up



Figure 12. Break-Before-Make, Test Set-Up

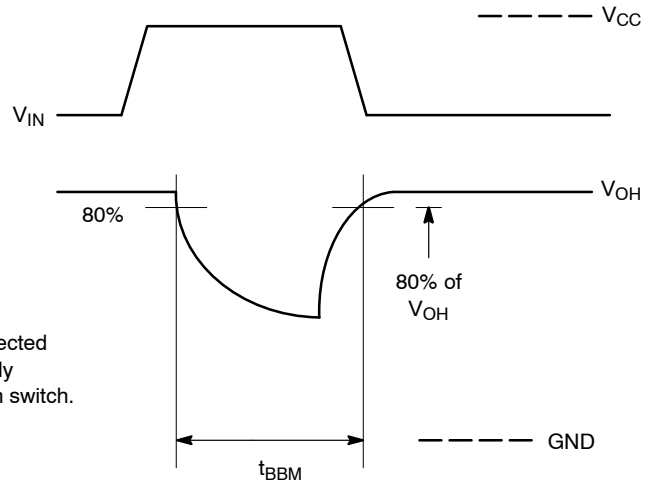


Figure 13. Break-Before-Make Time

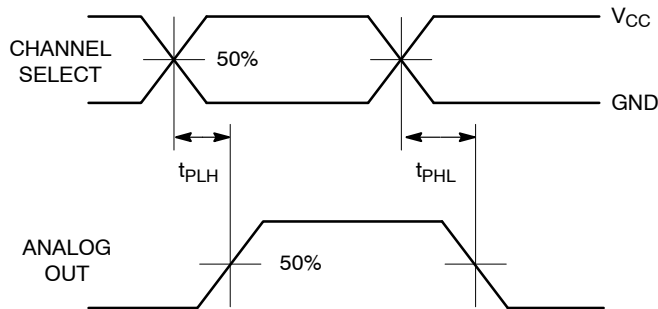


Figure 14. Propagation Delays, Channel Select to Analog Out



*Includes all probe and jig capacitance.

Figure 15. Propagation Delay, Test Set-Up Channel Select to Analog Out

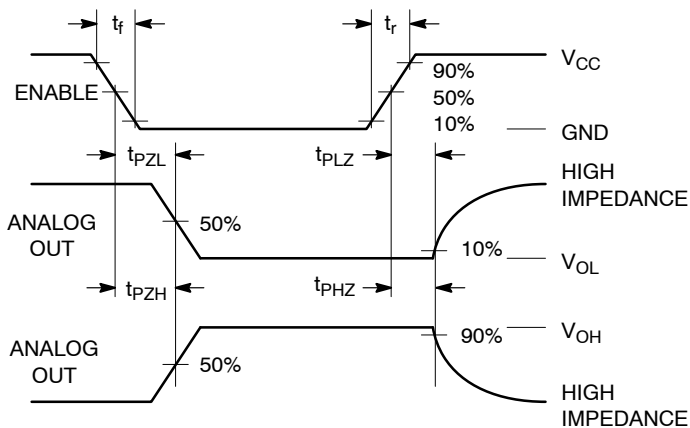


Figure 16. Propagation Delays, Enable to Analog Out

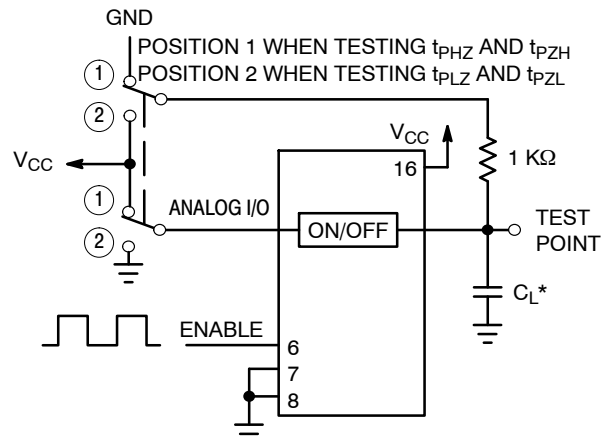


Figure 17. Propagation Delay, Test Set-Up Enable to Analog Out

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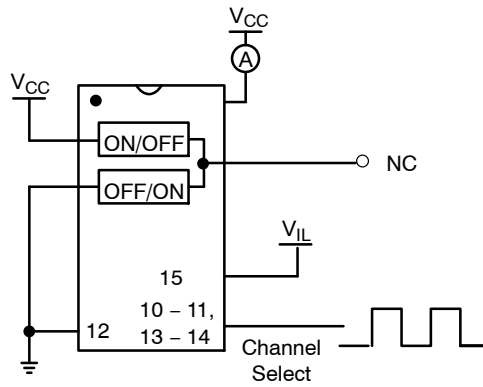


Figure 18. Power Dissipation Capacitance, Test Set-Up

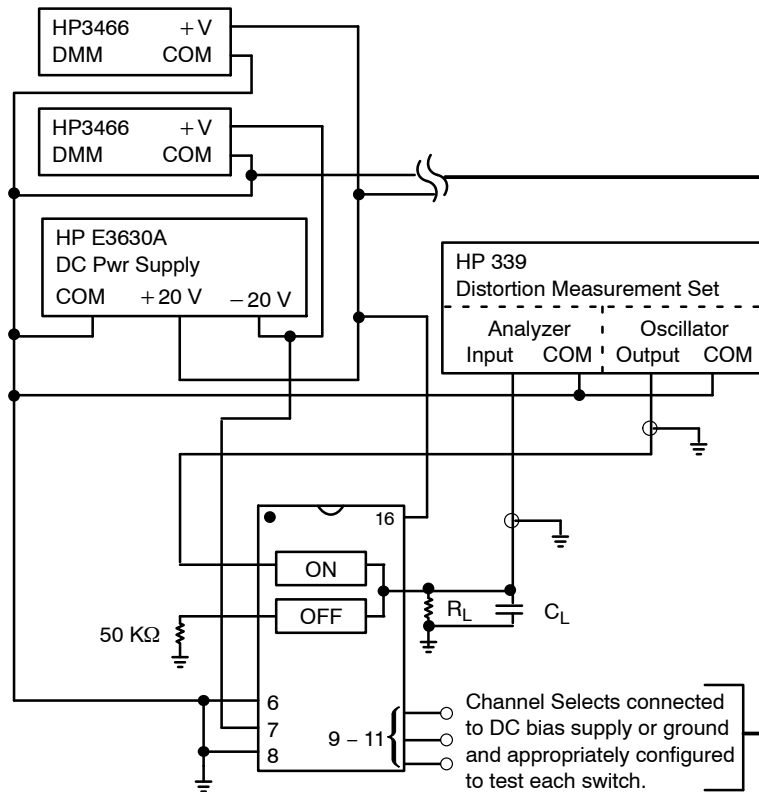


Figure 19. Total Harmonic Distortion, Test Set-Up

APPLICATIONS INFORMATION

The Channel Select and Enable control pins should be at V_{CC} or GND logic levels. V_{CC} being recognized as a logic high and GND being recognized as a logic low. In this example:

$$\begin{aligned} V_{CC} &= +5 \text{ V} = \text{logic high} \\ \text{GND} &= 0 \text{ V} = \text{logic low} \end{aligned}$$

The maximum analog voltage swing is determined by the supply voltages V_{CC} and V_{EE} . The positive peak analog voltage should not exceed V_{CC} . Similarly, the negative peak analog voltage should not go below V_{EE} . In this example, the difference between V_{CC} and V_{EE} is five volts. Therefore, using the configuration of Figure 21, a maximum analog signal of five volts peak-to-peak can be controlled. Unused analog inputs/outputs may be left floating (i.e., not connected). However, tying unused analog inputs and

outputs to V_{CC} or GND through a low value resistor helps minimize crosstalk and feedthrough noise that may be picked up by an unused switch.

Although used here, balanced supplies are not a requirement. The only constraints on the power supplies are that:

$$\begin{aligned} V_{EE} - \text{GND} &= 0 \text{ to } -6 \text{ volts} \\ V_{CC} - \text{GND} &= 2.5 \text{ to } 6 \text{ volts} \\ V_{CC} - V_{EE} &= 2.5 \text{ to } 6 \text{ volts} \\ &\text{and } V_{EE} \leq \text{GND} \end{aligned}$$

When voltage transients above V_{CC} and/or below V_{EE} are anticipated on the analog channels, external Germanium or Schottky diodes (D_x) are recommended as shown in Figure 22. These diodes should be able to absorb the maximum anticipated current surges during clipping.

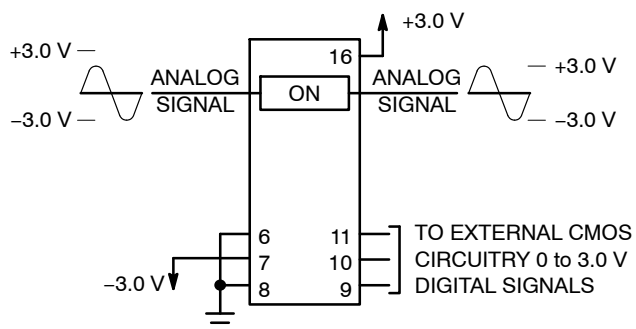


Figure 20. Application Example

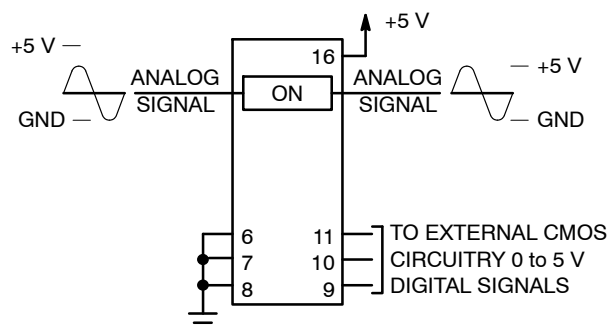


Figure 21. Application Example

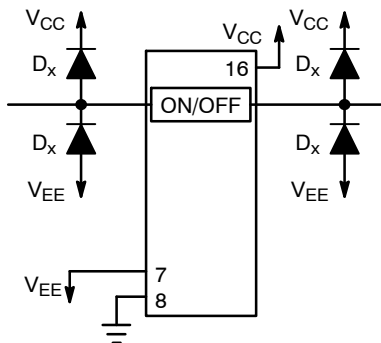


Figure 22. External Germanium or Schottky Clipping Diodes

MC74LVXT4053

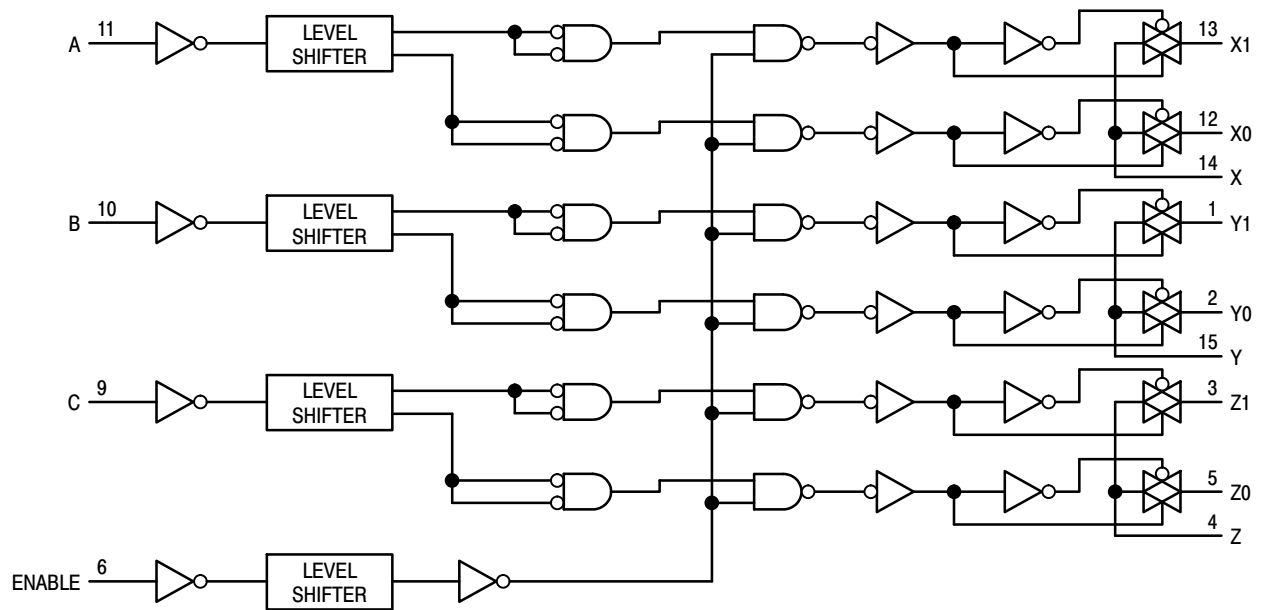
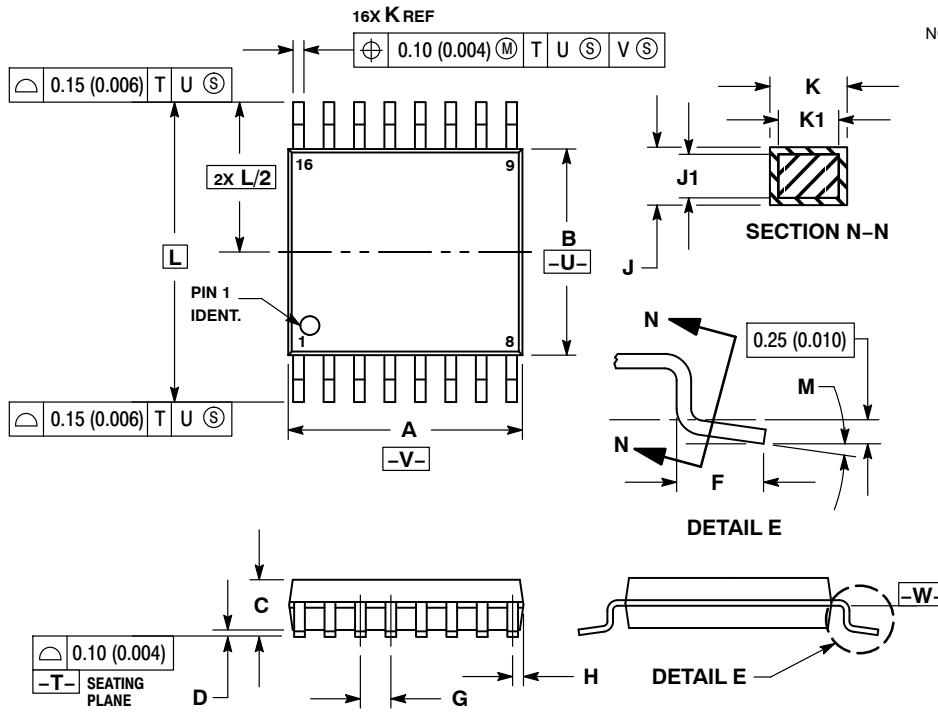


Figure 23. Function Diagram, LVXT4053

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PACKAGE DIMENSIONS

TSSOP-16
CASE 948F-01
ISSUE B

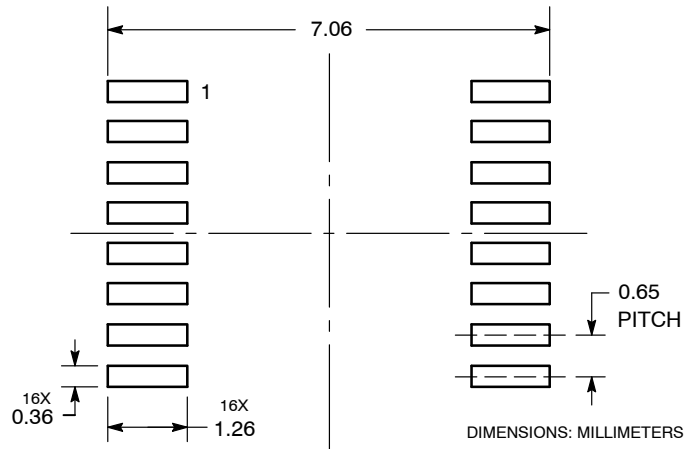


NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETER.
3. DIMENSION A DOES NOT INCLUDE MOLD FLASH. PROTRUSIONS OR GATE BURRS. MOLD FLASH OR GATE BURRS SHALL NOT EXCEED 0.15 (0.006) PER SIDE.
4. DIMENSION B DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION. INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.25 (0.010) PER SIDE.
5. DIMENSION K DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 (0.003) TOTAL IN EXCESS OF THE K DIMENSION AT MAXIMUM MATERIAL CONDITION.
6. TERMINAL NUMBERS ARE SHOWN FOR REFERENCE ONLY.
7. DIMENSION A AND B ARE TO BE DETERMINED AT DATUM PLANE -W-.

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	4.90	5.10	0.193	0.200
B	4.30	4.50	0.169	0.177
C	---	1.20	---	0.047
D	0.05	0.15	0.002	0.006
F	0.50	0.75	0.020	0.030
G	0.65 BSC		0.026 BSC	
H	0.18	0.28	0.007	0.011
J	0.09	0.20	0.004	0.008
J1	0.09	0.16	0.004	0.006
K	0.19	0.30	0.007	0.012
K1	0.19	0.25	0.007	0.010
L	6.40 BSC		0.252 BSC	
M	0°	8°	0°	8°

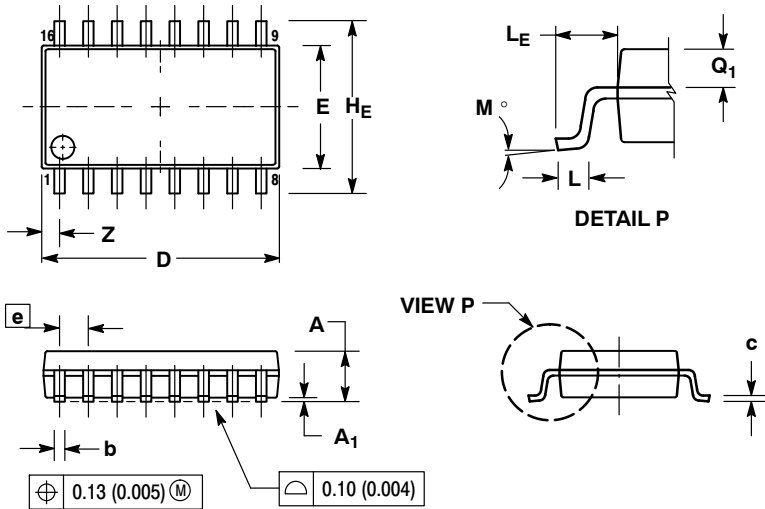
SOLDERING FOOTPRINT



MC74LVXT4053

PACKAGE DIMENSIONS

SOEIAJ-16
CASE 966-01
ISSUE A



NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETER.
3. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH OR PROTRUSIONS AND ARE MEASURED AT THE PARTING LINE. MOLD FLASH OR PROTRUSIONS SHALL NOT EXCEED 0.15 (0.006) PER SIDE.
4. TERMINAL NUMBERS ARE SHOWN FOR REFERENCE ONLY.
5. THE LEAD WIDTH DIMENSION (b) DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 (0.003) TOTAL IN EXCESS OF THE LEAD WIDTH DIMENSION AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT. MINIMUM SPACE BETWEEN PROTRUSIONS AND ADJACENT LEAD TO BE 0.46 (0.018).

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	---	2.05	---	0.081
A ₁	0.05	0.20	0.002	0.008
b	0.35	0.50	0.014	0.020
c	0.10	0.20	0.007	0.011
D	9.90	10.50	0.390	0.413
E	5.10	5.45	0.201	0.215
e	1.27 BSC		0.050 BSC	
HE	7.40	8.20	0.291	0.323
L	0.50	0.85	0.020	0.033
LE	1.10	1.50	0.043	0.059
M	0°	10°	0°	10°
Q ₁	0.70	0.90	0.028	0.035
Z	---	0.78	---	0.031

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