TYPES SN54HC4316, SN74HC4316
QUAD BILATERAL SWITCHES

D2804, MARCH 1984

- Fast Switching Speeds
- Low Crosstalk Between Switches
- High On/Off Output Voltage Ratio
- Analog Supply Voltage Range ($V_{CC}-V_{EE}$) . . . 3 V to 12 V
- Digital Supply Voltage Range ($V_{CC}-GND$) . . . 2 V to 6 V
- Package Options Include Both Plastic and Ceramic Chip Carriers in Addition to Plastic and Ceramic DIPs
- Dependable Texas Instruments Quality and Reliability

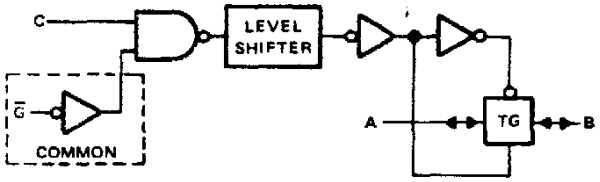
description

The 'HC4316 is a quadruple bilateral switch. The switches can transmit analog or digital signals in either direction. The 'HC4316 offers high control input impedance and low crosstalk between switches.

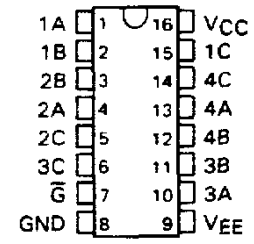
Applications include digital switching and multiplexing analog-to-digital and digital-to-analog conversion; digital control of frequency, impedance, phase and analog-signal gain; and use as a squelch control, chopper, modulator, demodulator, or commutating switch.

The SN54HC4316 is characterized for operation over the full military temperature range of −55°C to 125°C. The SN74HC4316 is characterized for operation from −40°C to 85°C.

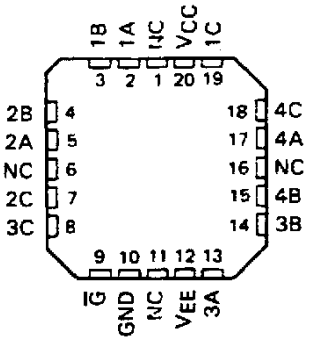
logic diagram, each switch (positive logic)



SN54HC4316 . . . J PACKAGE
SN74HC4316 . . . J OR N PACKAGE
(TOP VIEW)

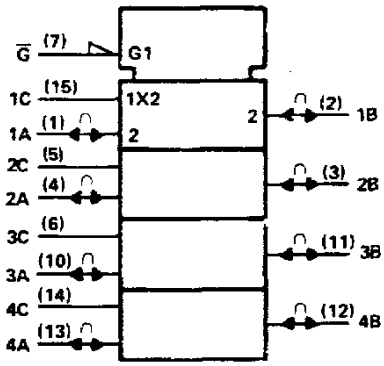


SN54HC4316 . . . FH OR FK PACKAGE
SN74HC4316 . . . FH OR FN PACKAGE
(TOP VIEW)



NC—No internal connection

logic symbol



Pin numbers shown are for J and N packages.

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