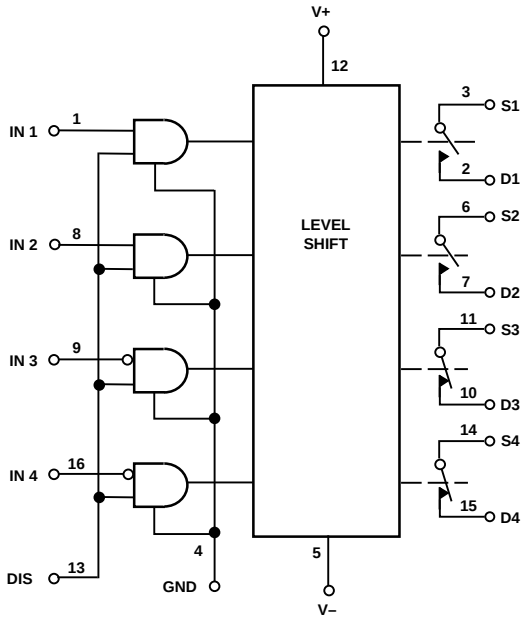
Quad SPST JFET Analog Switch

SW06

FEATURES

- Two Normally Open and Two Normally Closed SPST Switches with Disable
- Switches Can Be Easily Configured as a Dual SPDT or a DPDT
- Highly Resistant to Static Discharge Destruction
- Higher Resistance to Radiation than Analog Switches Designed with MOS Devices
- Guaranteed R_{ON} Matching: 10% max
- Guaranteed Switching Speeds
  - T_{ON} = 500 ns max
  - T_{OFF} = 400 ns max
- Guaranteed Break-Before-Make Switching
- Low "ON" Resistance: 80 Ω max
- Low R_{ON} Variation from Analog Input Voltage: 5%
- Low Total Harmonic Distortion: 0.01%
- Low Leakage Currents at High Temperature
  - T_A = +125°C: 100 nA max
  - T_A = +85°C: 30 nA max
- Digital Inputs TTL/CMOS Compatible and Independent of V+
- Improved Specifications and Pin Compatible to LF-11333/13333
- Dual or Single Power Supply Operation
- Available in Die Form

FUNCTIONAL BLOCK DIAGRAM



GENERAL DESCRIPTION

The SW06 is a four channel single-pole, single-throw analog switch that employs both bipolar and ion-implanted FET devices. The SW06 FET switches use bipolar digital logic inputs which are more resistant to static electricity than CMOS devices. Ruggedness and reliability are inherent in the SW06 design and construction technology.

Increased reliability is complemented by excellent electrical specifications. Potential error sources are reduced by minimizing "ON" resistance and controlling leakage currents at high temperatures. The switching FET exhibits minimal R_{ON} variation over a 20 V analog signal range and with power supply voltage changes. Operation from a single positive power supply voltage is possible. With V+ = 36 V, V– = 0 V, the analog signal range will extend from ground to +32 V.

PNP logic inputs are TTL and CMOS compatible to allow the SW06 to upgrade existing designs. The logic "0" and logic "1" input currents are at microampere levels reducing loading on CMOS and TTL logic.

REV. A

One Technology Way, P.O. Box 9106, Norwood, MA 02062-9106, U.S.A.
Tel: 617/329-4700 **Fax: 617/326-8703**

“Searchdatasheets provides users with one of the Internet’s most complete sources for obsolete datasheets,” said Ariel Zriel, President, Market Maker Systems.
As the life-cycle of components is shortened by the constant demand for faster and better technology, electronics parts are being rendered obsolete at an unprecedented rate. Searchdatasheets gathers and stores the fact sheets, which explain how to use those components.

“Once a component manufacturer decides to eliminate a component datasheet from its web site,” said Zriel, “we take over and list it along with the millions of other datasheets that our users can quickly access.”

Users can perform standard searches for datasheets, or use the cross-reference search option if they want to find a compatible part from another manufacturer.
Searchdatasheets also informs its users when parts are going to become obsolete, providing them with timely product change notification (PCN), product discontinuation notices (PDN) and end of life (EOL) notification.

Searchdatasheets is the only database of its kind that has components engineers onstaff.

That means users can count on assistance from qualified personnel when performing cross-reference searches. Searchdatasheets engineers also regularly research and add and new datasheets to the system.

“We have full-time Engineers on-staff to research and add datasheets if the information is not currently on our site,” said Zriel. “We are providing a place for users to have their questions answered quickly. Our aim is to build a community for components engineers who need help in product design.”

For information or to contact us:

Market Maker Systems Canada
Phone: 1-514-333-1245
Fax: 1-514-333-1489
Email: sales@searchdatasheets.com

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