

IH5052, IH5053

Complete Data Sheet available via web, Harris' home page: http://www.semi.harris.com or via Harris AnswerFAX, see Section 17

August 1997

Quad CMOS Analog Switches

F	Features
•	Switches Greater Than 20V p.p Signals with $\pm 15 \text{V}$ Supplies
•	Quiescent Current
•	Break-Before-Make Switching
	- t _{OFF} (Typ)
	- t _{ON} (Typ) 1000ns
•	TTL, CMOS Compatible
	IH5052 4 Normally Closed Switches

Low r_{DS(ON)} (Typ) Ordering Information

IH5053 4 Normally Open Switches

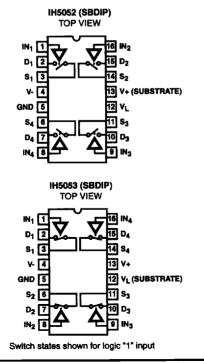
PART NUMBER	TEMP. RANGE (°C)	PACKAGE	PKG. NO.
IH5052CDE	-0 to 70	16 Ld SBDIP	D16.3
IH5052MDE	-55 to 125	16 Ld SBDIP	D16.3
IH5053CDE	-0 to 70	16 Ld SBDIP	D16.3
IH5053MDE	-55 to 125	16 Ld SBDIP	D16.3

Description

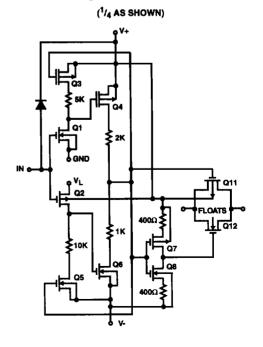
The IH5052, IH5053 analog switches use an improved, high voltage CMOS technology, which provides performance advantages not previously available from solid state switches. Key performance advantages are TTL compatibility and ultra low-power operation. The quiescent current requirement is less than 10µA.

The IH5052, IH5053 also guarantees Break-Before-Make switching. This is accomplished by extending the ton time (1000ns) such that it exceeds tope time (500ns). This insures that an ON channel will be turned OFF before an OFF channel can turn ON, and eliminates the need for external logic required to avoid channel to channel shorting during switching. With a logic "0" (0.8V or less) at its control inputs, the IH5052 switches are closed, while the IH5053 switches are closed with a logic "1" (2.4V or more) at its control inputs.

Pinouts



Functional Diagram



CAUTION: These devices are sensitive to electrostatic discharge. Users should follow proper iC Handling Procedures. Copyright C Harris Corporation 1997