Product Overview

MC14052B: Dual 4-Channel Analog Multiplexer/Demultiplexer (Mux/Demux)

For complete documentation, see the data sheet.

The MC14051B, MC14052B, and MC14053B analog multiplexers are digitally-controlled analog switches. The MC14051B effectively implements an SP8T solid state switch, the MC14052B a DP4T, and the MC14053B a Triple SPDT. All three devices feature low ON impedance and very low OFF leakage current. Control of analog signals up to the complete supply voltage range can be achieved.

Features

- Triple Diode Protection on Control Inputs
- Switch Function is Break Before Make
- Supply Voltage Range = 3.0 Vdc to 18 Vdc
- Analog Voltage Range (V_{DD} - V_{EE}) = 3.0 to 18 V Note: V_{EE} must be $<= V_{SS}$
- Linearized Transfer Characteristics
- Low-noise - 12 nV/sqrt.Cycle, f $<=$ 1.0 kHz Typical
- Pin-for-Pin Replacement for CD4051, CD4052, and CD4053
- For 4PDT Switch, See MC14551B
- For Lower R_{ON}, Use the HC4051, HC4052, or HC4053 High-Speed CMOS Devices
- Pb-Free Packages are Available*

  For more features, see the data sheet

Part Electrical Specifications

Product	Compliance	Status	Channels	Number of Switches	Configuration	I_{cc} Max (µA)	r_{on} Max (Ω)	V_{CC} Min (V)	V_{CC} Max (V)	Package Type
MC14052BDG	Pb-free Halide free	Active	2	2	DP4T	600	500	3	18	SOIC-16
MC14052BDR2G	Pb-free Halide free	Active	2	2	DP4T	600	500	3	18	SOIC-16
MC14052BDTR2G	Pb-free Halide free	Active	2	2	DP4T	600	500	3	18	TSSOP-16
NLV14052BDG	AEC Qualified PPAP Capable Pb-free Halide free	Active	4	2	DP4T	600	500	3	18	SOIC-16
NLV14052BDR2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	4	2	DP4T	600	500	3	18	SOIC-16
NLV14052BDTR2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	4	2	DP4T	600	500	3	18	TSSOP-16

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