Analog Switch Features 1.8 V to 5.5 V Single Power Supply

Vishay Intertechnology today released the DG723, a monolithic dual single-pull, single-throw analog switch designed to switch both analog and digital signals. Delivering low-switching-noise performance for signal integrity and system accuracy, the new device combines a compact surface-mount package with low power consumption and the ability to work with the low voltages in new-generation portable designs.

Working from a 1.8 V to 5.5 V single power supply, the DG723 is intended for end products including low-voltage instruments, healthcare devices, portable meters, PDAs, and modems, where it will be used in conjunction with ADC, DAC, analog front-end gain control, and signal path control circuitry. Typical applications will include programmable gain control, active filtering, sample-and-hold, audio/video and digital signal switching and routing, and reed relay replacement.

Fabricated with advanced submicron CMOS technology, the DG723 provides low typical on-resistance of 2.5 ?, typical leakage current of 1 pA, off capacitance of 8 pF, on capacitance of 19 pF, and charge injection of 1.8 pC. The switch's RON flatness of 0.9 ? at 5 V minimizes insertion distortion while its low parasitic and charge characteristics help to minimize switching noise. The device features typical bandwidth of 366 MHz at – 3 dB.

The DG723 contains two independent SPST switches. Switch 1 is normally open, and Switch 2 is normally closed.

Offered in the lead (Pb)-free and RoHS-compliant surface-mount TDFN-8 and MSOP-8 packages, samples and production quantities of the DG723 are available now with lead times of eight to 10 weeks for large orders. Pricing for U.S. delivery in 1000-piece quantities is $0.70 per piece Follow Vishay Siliconix analog switches at http://twitter.com/vishaysignalpro [1].

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