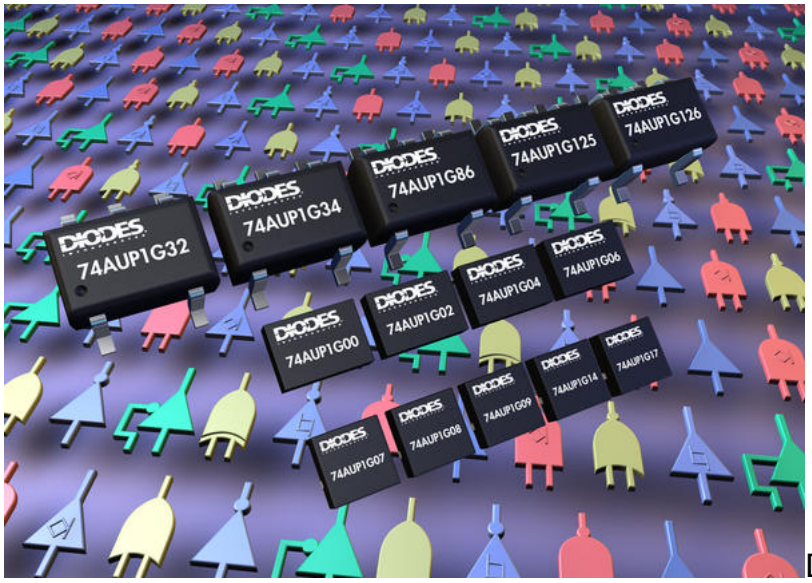
Single gate logic devices designed to save power, space



Diodes Incorporated has introduced a family of single gate logic devices designed to save power and space in a broad range of portable consumer electronic products, including cell phones, e-readers and tablet computers. Manufactured on a 3V advanced ultra low-power CMOS process, the 74AUP1G logic is pin compatible with industry-standard parts while offering a package height advantage through its miniature DFN package options.

Fourteen of the most common logic functions are being provided in three different packages: the tiny footprint DFN1010 and DFN1410, both with an off-board height of just 0.4mm, and a 5-pin SOT353 alternative. Operating over a power supply range from as low as 0.8V up to 3.6V, the 74AUP1G logic assures low static and dynamic power consumption, which enables more battery power to be conserved.

The complete family of 74AUP1G single-gate logic devices from Diodes Incorporated is comprised of: AND, AND with open-drain output, NAND, OR, NOR, XOR, inverters and buffers (simple, with open-drain output and Schmitt trigger types) and tri-state buffers (output-enable low or high).

The 74AUP1G logic devices are priced at $0.12 USD each in DFN1010 and DFN1410 packages, provided on 5k unit reels. SOT353 packaged versions are $0.10 USD each and provided on 3k unit reels.

Diodes Incorporated
www.diodes.com [1]
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[1] http://www.diodes.com